

Stored Procedure

```

-- =====
-- Package Name : Automatic Estimation
-- Package ID   :
-- Create Date  : 24/Nov/1999
-- Replace Date : xx/xxx/xxxx
-- Author       : Nakamura
--
-- File         : @c:%jica%AutoEst;
-- Test         : BEGIN AutoEst.p_AtrbtUpd(2000, 1); commit;
END;
-- Test         : BEGIN AutoEst.p_UnitPriceUpd(1998, 4); commit; EN
D;
-- Test         : BEGIN AutoEst.p_GrowthRateIns(1999, 5); com
mit; END;
-- Test         : BEGIN AutoEst.p_SurveyDataIns(1999, 4); com
mit; END;
-- Test         : BEGIN AutoEst.p_AutoEstI1(2000, 1); Commit;
END;
-- Test         : BEGIN AutoEst.p_AutoEstI2(1999, 5); commit;
END;
-- Test         : BEGIN AutoEst.p_AutoEstI3(1999, 5); commit;
END;
-- Test         : BEGIN AutoEst.p_AutoEstI4(1999, 5); commit;
END;
-- Test         : BEGIN AutoEst.p_AutoEstI6(1999, 5); commit;
END;
-- Test         : BEGIN AutoEst.p_UnitPriceUpd(1999, 5); comm
it; END;
-- Test         : BEGIN AutoEst.p_BatchCtlUpd(1998, 12, '2');
commit; END;
-- Test         : BEGIN AutoEst.main(1999, 4, '1'); commit; EN
D;
-- =====

```

create or replace package AutoEst is

```

procedure p_AtrbtUpd (
    inYear          in    number,
    inMonth          in    number);

procedure p_UnitPriceUpd (
    inYear          in    number,
    inMonth          in    number);

procedure p_GrowthRateIns (
    inYear          in    number,
    inMonth          in    number);

procedure p_SurveyDataIns (
    inYear          in    number,
    inMonth          in    number);

procedure p_AutoEstI1 (
    inYear          in    number,
    inMonth          in    number);

procedure p_AutoEstI2 (
    inYear          in    number,
    inMonth          in    number);

procedure p_AutoEstI3 (
    inYear          in    number,
    inMonth          in    number);

procedure p_AutoEstI4 (
    inYear          in    number,
    inMonth          in    number);

procedure p_AutoEstI6 (
    inYear          in    number,
    inMonth          in    number);

procedure p_BatchCtlUpd (
    inYear          in    number,
    inMonth          in    number,
    inPre_Rev_Mark  in    varchar2);

procedure main (

```

```

        inYear
        inMonth
        inPre_Rev_Mark
    in
    varchar2);
    in
    number,
    number,

end AutoEst;
/
show errors
/

create or replace package body AutoEst is
-----
-- Growth Rate Calculation.
-----
function f_GRCal (
    inCurValue      in
    inPreValue       in
    number,
    number) return number is
    nGR              number;

begin
    if      inPreValue = 0
    or      inPreValue is null then
        nGR := 1;
        return nGR;
    end if;

    nGR := inCurValue / inPreValue;

    if nGR = 0
    or    nGR is null then
        nGR := 1;
        return nGR;
    end if;

    return nGR;

end;

-----
-- Error Log Output
-----
procedure p_ErrLogIns(
    inISIC              in Varchar2,
    inYear              in Number,
    inMonth             in Number,
    inRegistrationNo    in Varchar2,
    inItemType          in Varchar2,
    inCommodityCode     in Varchar2,
    inMessageCode       in Varchar2) is

begin
    Insert
    into ErrorLog (
        ISIC,
        Year,
        Month,
        RegistrationNo,
        ItemType,
        CommodityCode,
        MessageCode)
    Values (
        inISIC,
        inYear,
        inMonth,
        inRegistrationNo,
        inItemType,
        inCommodityCode,
        inMessageCode);

exception
    when dup_val_on_index then
        null;

end;

-----
-- Common Estimation and Error Log Output
-- inCalPatern = M:Month Y:Year G:Growth Rate

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-----
procedure p_CommEst(
    inISIC                      in      Varchar2,
    inYear                      in      Number,
    inMonth                     in      Number,
    inRegistrationNo            in      Varchar2,
    inItemtype                   in      Varchar2,
    inCommodityCode             in      Varchar2,
    inColumnID                  in      Varchar2,
    inCalPatern                 in      Varchar2,

    ioValue                     in      out Number,
    ioAtrbt                     in      out Varchar2,
    inPreValue                   in      Number,
    inPreAtrbt                  in      Varchar2,
    inGrowthRate                 in      Number) is

begin
-- Attribute Checking(This Month)
if ioAtrbt = 'X' then
    null;
else
    return;
end if;

-- Attribute Checking(Pre Month or Year)
if inPreAtrbt = 'X' or inPreAtrbt = 'Y' or inPreAtrbt = 'M' then
    p_ErrLogIns(inISIC, inYear, inMonth, inRegistrationNo, inItemtype, inCommodityC
ode,
                                                         'X' || inItemtype ||
inColumnID);
    return;
end if;
if inPreAtrbt = 'U' then
    p_ErrLogIns(inISIC, inYear, inMonth, inRegistrationNo, inItemtype, inCommodityC
ode,
                                                         'N' || inItemtype ||
inColumnID);
    return;
end if;
if inPreAtrbt = 'S' then
    p_ErrLogIns(inISIC, inYear, inMonth, inRegistrationNo, inItemtype, inCommodityC
ode,
                                                         'S' || inItemtype ||
inColumnID);
    return;
end if;
if inPreAtrbt = 'V' then
    null;
else
    p_ErrLogIns(inISIC, inYear, inMonth, inRegistrationNo, inItemtype, inCommodityC
ode,
                                                         'Z' || inItemtype ||
inColumnID);
    return;
end if;

-- Calculation
if inCalPatern = 'M' or inCalPatern = 'Y' then
    ioValue := inPreValue;
else
    ioValue := round(inPreValue * inGrowthRate, 3);
end if;

-- Estimated Attribute setting.
ioAtrbt := 'Y';

end;

-----
-- Reset Estimated Attribute.
-----

procedure p_AtrbtUpd (
    inYear                      in      number,
    inMonth                     in      number) is

-- Record Area Define

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recsd          SurveyData%rowtype;

-- Work Area
bUpdFlg        boolean;

-- Survey Data Cursor
Cursor csrds is
select *
  from SurveyData
 where Year      = inYear
    and Month    = inMonth
    and ItemType in('1','2','3','4','6');

Begin
-- DBMS_OUTPUT.PUT_LINE('Start p_ActualValue ' || to_char(sysdate,'HH24:MI:SS'));
-- Survey Data Open Fetch
open  csrds;
fetch csrds into recsd;

-- Survey Data Cursor Fetch Looping
while csrds%found loop

-- Reset Updated Flg
bUpdFlg := false;

-- Item Type 1 Checking
if recsd.ItemType = '1' then
if recsd.Atrbt_BM_Inventory = 'Y' then
recsd.Atrbt_BM_Inventory := 'X';
recsd.BM_Inventory := null;
bUpdFlg := true;
end if;
if recsd.Atrbt_ProductionQty = 'Y' then
recsd.Atrbt_ProductionQty := 'X';
recsd.ProductionQty := null;
bUpdFlg := true;
end if;
if recsd.Atrbt_Receipts = 'Y' then
recsd.Atrbt_Receipts := 'X';
recsd.Receipts := null;
bUpdFlg := true;
end if;
if recsd.Atrbt_DomesticSales = 'Y' then
recsd.Atrbt_DomesticSales := 'X';
recsd.DomesticSales := null;
bUpdFlg := true;
end if;
if recsd.Atrbt_Export = 'Y' then
recsd.Atrbt_Export := 'X';
recsd.Export := null;
bUpdFlg := true;
end if;
if recsd.Atrbt_OtherSales = 'Y' then
recsd.Atrbt_OtherSales := 'X';
recsd.OtherSales := null;
bUpdFlg := true;
end if;
if recsd.Atrbt_ME_Inventory = 'Y' then
recsd.Atrbt_ME_Inventory := 'X';
recsd.ME_Inventory := null;
bUpdFlg := true;
end if;
if bUpdFlg then
update SurveyData
set
    BM_Inventory = recsd.BM_Inventory,
    ProductionQty = recsd.ProductionQty,
    Receipts = recsd.Receipts,
    DomesticSales = recsd.DomesticSales,
    Export = recsd.Export,
    OtherSales = recsd.OtherSales,
    ME_Inventory = recsd.ME_Inventory,
    Atrbt_BM_Inventory = recsd.Atrbt_BM_Inventory,
    Atrbt_ProductionQty = recsd.Atrbt_ProductionQty,
    Atrbt_Receipts = recsd.Atrbt_Receipts,
    Atrbt_DomesticSales = recsd.Atrbt_DomesticSales,
    Atrbt_Export = recsd.Atrbt_Export,
    Atrbt_OtherSales = recsd.Atrbt_OtherSales,
    Atrbt_ME_Inventory = recsd.Atrbt_ME_Inventory;
end if;
end if;

```

```

ecsd. Atrbt_BM_Inventory,
d. Atrbt_ProductionQty,
bt_Receipts,
d. Atrbt_DomesticSales,
_Export,
trbt_OtherSales,
d. Atrbt_ME_Inventory,

Atrbt_ProductionQty = recs
Atrbt_Receipts = recsd. Atr
Atrbt_DomesticSales = recs
Atrbt_Export = recsd. Atrbt
Atrbt_OtherSales = recsd. A
Atrbt_ME_Inventory = recs
userid = 'soi2man'

= recsd. ISIC
= recsd. Year
= recsd. Month
nNo
= recsd. ItemType
de;

where ISIC
and Year
and Month
and RegistrationNo = recsd. Registratio
and ItemType
and CommodityCode = recsd. CommodityCo

end if;

-- Item Type 2 Checking
elseif recsd. ItemType = '2' then
if recsd. Atrbt_ShipmentValue = 'Y' then
recsd. Atrbt_ShipmentValue := 'X';
recsd. ShipmentValue := null;
bUpdFlg := true;
end if;
if bUpdFlg then
update SurveyData
set ShipmentValue = recsd. ShipmentValu
Atrbt_ShipmentValue = recs

e,
d. Atrbt_ShipmentValue
= recsd. ISIC
= recsd. Year
= recsd. Month
nNo
= recsd. ItemType
de;

where ISIC
and Year
and Month
and RegistrationNo = recsd. Registratio
and ItemType
and CommodityCode = recsd. CommodityCo

end if;

-- Item Type 3 Checking
elseif recsd. ItemType = '3' then
if recsd. Atrbt_LaborTotal = 'Y' then
recsd. Atrbt_LaborTotal := 'X';
recsd. LaborTotal := null;
bUpdFlg := true;
end if;
if recsd. Atrbt_Labor_SC = 'Y' then
recsd. Atrbt_Labor_SC := 'X';
recsd. Labor_SC := null;
bUpdFlg := true;
end if;
if bUpdFlg then
update SurveyData
set LaborTotal = recsd. LaborTotal,
Labor_SC = recsd. Labor_SC,
Atrbt_LaborTotal = recsd. A
Atrbt_Labor_SC = recsd. Atr

trbt_LaborTotal,
bt_Labor_SC
= recsd. ISIC
where ISIC

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                                and      Year
                                and      Month
                                and      RegistrationNo = recsd. Registratio
nNo                                and      ItemType
                                and      CommodityCode = recsd. CommodityCo
de;                                end if;

-- Item Type 4 Checking
elseif recsd. ItemType = '4' then
    if recsd. Atrbt_RwMt_MEInventory = 'Y' then
        recsd. Atrbt_RwMt_MEInventory := 'X';
        recsd. RwMt_MEInventory := null;
        bUpdFlg := true;
    end if;
    if recsd. Atrbt_RwMt_MEInventoryValue = 'Y' then
        recsd. Atrbt_RwMt_MEInventoryValue := 'X';
        recsd. RwMt_MEInventoryValue := null;
        bUpdFlg := true;
    end if;
    if bUpdFlg then
        update SurveyData
        set
            RwMt_MEInventory = recsd. RwMt_MEIn
            RwMt_MEInventoryValue = re
            Atrbt_RwMt_MEInventory = r
            Atrbt_RwMt_MEInventoryValue
            = recsd. Atrbt_RwMt_MEInventoryValue
            = recsd. ISIC
            = recsd. Year
            = recsd. Month
            = recsd. RegistrationNo = recsd. Registratio
nNo                                and      ItemType
            = recsd. CommodityCode = recsd. CommodityCo
de;                                end if;

-- Item Type 6 Checking
elseif recsd. ItemType = '6' then
    if recsd. Atrbt_Capacity = 'Y' then
        recsd. Atrbt_Capacity := 'X';
        recsd. Capacity := null;
        bUpdFlg := true;
    end if;
    if bUpdFlg then
        update SurveyData
        set
            Capacity = recsd. Capacity,
            Atrbt_Capacity = recsd. Atr
            = recsd. ISIC
            = recsd. Year
            = recsd. Month
            = recsd. RegistrationNo = recsd. Registratio
nNo                                and      ItemType
            = recsd. CommodityCode = recsd. CommodityCo
de;                                end if;
                                end if;

-- Fetch Survey Data
fetch csrsd into recsd;

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end loop;

close csrscd;

commit;

end;

-----
-- Unit Price Calculation For Actual Value.
-----

procedure p_UnitPriceUpd (
    inYear          in number,
    inMonth         in number) is

-- Record Area Define
recsd      SurveyData%rowtype;

-- Work Area
nShipment      number;

-- Survey Data Cursor
Cursor csrscd is
    select a.ISIC,
           a.Year,
           a.Month,
           a.RegistrationNo,
           a.CommodityCode,
           a.DomesticSales,
           a.Atrbt_DomesticSales,
           a.Export,
           a.Atrbt_Export,
           b.ShipmentValue,
           b.Atrbt_ShipmentValue
    from SurveyData a, SurveyData b
   where a.ISIC = b.ISIC
        and a.Year = b.Year
        and a.Month = b.Month
        and a.RegistrationNo = b.RegistrationNo
        and a.CommodityCode = b.CommodityCode
        and a.ItemType = '1'
        and b.ItemType = '2'
        and a.year = inYear
        and a.Month = inMonth;

Begin
-- DBMS_OUTPUT.PUT_LINE('Start p_ActualValue ' || to_char(sysdate, 'HH24:MI:SS'));
-- Survey Data Open Fetch
open csrscd;
fetch csrscd
into recsd.ISIC, recsd.Year, recsd.Month, recsd.RegistrationNo, recsd.CommodityCode,
recsd.DomesticSales, recsd.Atrbt_DomesticSales,
recsd.Export, recsd.Atrbt_Export,
recsd.ShipmentValue, recsd.Atrbt_ShipmentValue;

-- Survey Data Cursor Fetch Looping
while csrscd%found loop

-- Calculation Record Checking
if (recsd.Atrbt_DomesticSales in('V','M','Y'))
and (recsd.Atrbt_Export in('V','M','Y'))
and (recsd.Atrbt_ShipmentValue in('V','M','Y')) then
    nShipment := nvl(recsd.DomesticSales, 0) + nvl(recsd.Export, 0);
    if nShipment = 0 then
        recsd.UnitPrice := null;
    else
        recsd.UnitPrice := recsd.ShipmentValue / nShipment;
    end if;
else
    recsd.UnitPrice := null;
end if;

-- Update Unit Price
update SurveyData
set UnitPrice = recsd.UnitPrice

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        where ISIC
        = recsd. ISIC
        = recsd. Year
        = recsd. Month
        and Year
        and Month
        and RegistrationNo = recsd. Registratio
        and ItemType
        and CommodityCode = recsd. CommodityCo
nNo
        = '1'
de;

-- Fetch Survey Data
fetch csrsd
into recsd. ISIC, recsd. Year, recsd. Month, recsd. RegistrationNo, rec
sd. CommodityCode,
recsd. DomesticSales, recsd. Atrbt_DomesticSa
les,
recsd. Export, recsd. Atrbt_Export,
recsd. ShipmentValue, recsd. Atrbt_ShipmentVa
lue;

end loop;

close csrsd;

commit;

end;

-----
-- Growth Rate Work Making
-----
procedure p_GrowthRateIns (
    inYear
    inMonth
    in
    number,
    in
    number) is

-- Record Area Define
recsd SurveyData%rowtype;
recsdp SurveyData%rowtype;
recge GrowthRateForEstimation%rowtype;

-- Work Area
nPY number;
nPM number;

-- Survey Data Cursor
Cursor csrsd is
select
    a. ISIC, a. ItemType, a. CommodityCode,
    sum(a. ProductionQty * decode(a. Atrbt_ProductionQty, 'V', 1, 0) * decode(b. Atr
bt_ProductionQty, 'V', 1, 0)),
    sum(b. ProductionQty * decode(a. Atrbt_ProductionQty, 'V', 1, 0) * decode(b. A
trbt_ProductionQty, 'V', 1, 0)),
    sum(a. Receipts * decode(a. Atrbt_Receipts, 'V', 1, 0) * decode(b. Atrbt_Receipt
s, 'V', 1, 0)),
    sum(b. Receipts * decode(a. Atrbt_Receipts, 'V', 1, 0) * decode(b. Atrbt_Receipt
s, 'V', 1, 0)),
    sum(a. DomesticSales * decode(a. Atrbt_DomesticSales, 'V', 1, 0) * decode(b. Atr
bt_DomesticSales, 'V', 1, 0)),
    sum(b. DomesticSales * decode(a. Atrbt_DomesticSales, 'V', 1, 0) * decode(b. Atr
bt_DomesticSales, 'V', 1, 0)),
    sum(a. Export * decode(a. Atrbt_Export, 'V', 1, 0) * decode(b. Atrbt_Export, 'V',
1, 0)),
    sum(b. Export * decode(a. Atrbt_Export, 'V', 1, 0) * decode(b. Atrbt_Export, 'V',
1, 0)),
    sum(a. OtherSales * decode(a. Atrbt_OtherSales, 'V', 1, 0) * decode(b. Atrbt_Oth
erSales, 'V', 1, 0)),
    sum(b. OtherSales * decode(a. Atrbt_OtherSales, 'V', 1, 0) * decode(b. Atrbt_Oth
erSales, 'V', 1, 0)),
    sum(a. ShipmentValue * decode(a. Atrbt_ShipmentValue, 'V', 1, 0) * decode(b. Atr
bt_ShipmentValue, 'V', 1, 0)),
    sum(b. ShipmentValue * decode(a. Atrbt_ShipmentValue, 'V', 1, 0) * decode(b. Atr
bt_ShipmentValue, 'V', 1, 0)),
    sum(a. LaborTotal * decode(a. Atrbt_LaborTotal, 'V', 1, 0) * decode(b. Atrbt_Lab
orTotal, 'V', 1, 0)),

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sum(b. LaborTotal * decode(a. Atrbt_LaborTotal, 'V', 1, 0) * decode(b. Atrbt_Lab
orTotal, 'V', 1, 0)),
sum(a. Labor_SC * decode(a. Atrbt_Labor_SC, 'V', 1, 0) * decode(b. Atrbt_Labor_S
C, 'V', 1, 0)),
sum(b. Labor_SC * decode(a. Atrbt_Labor_SC, 'V', 1, 0) * decode(b. Atrbt_Labor_S
C, 'V', 1, 0)),
sum(a. RwmT_MEInventory * decode(a. Atrbt_RwmT_MEInventory, 'V', 1, 0) * decode
(b. Atrbt_RwmT_MEInventory, 'V', 1, 0)),
sum(b. RwmT_MEInventory * decode(a. Atrbt_RwmT_MEInventory, 'V', 1, 0) * decode
(b. Atrbt_RwmT_MEInventory, 'V', 1, 0)),
sum(a. RwmT_MEInventoryValue * decode(a. Atrbt_RwmT_MEInventoryValue, 'V', 1, 0)
* decode(b. Atrbt_RwmT_MEInventoryValue, 'V', 1, 0)),
sum(b. RwmT_MEInventoryValue * decode(a. Atrbt_RwmT_MEInventoryValue, 'V', 1, 0)
* decode(b. Atrbt_RwmT_MEInventoryValue, 'V', 1, 0))
from SurveyData a, SurveyData b
where a. ISIC = b. ISIC
and a. RegistrationNo = b. RegistrationNo
and a. ItemType = b. ItemType
and a. CommodityCode = b. CommodityCode
and a. year = inYear
and a. Month = inMonth
and b. Year = nPY
and b. Month = nPM
and a. ItemType in('1', '2', '3', '4')
group by a. ISIC, a. ItemType, a. CommodityCode;

```

Begin

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-- Get Pre Year and Month
if inMonth = 1 then
    nPY := inYear - 1;
    nPM := 12;
else
    nPY := inYear;
    nPM := inMonth - 1;
end if;

```

```

-- Delete Growth Rate For Estimation Table
delete from GrowthRateForEstimation;

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```

-- Survey Data Open Fetch
open csrcd;
fetch csrcd
into recsd. ISIC, recsd. ItemType, recsd. CommodityCode,
recsd. ProductionQty, recsd. ProductionQty, recsd. Receipts, recsd. Receipts,
recsd. DomesticSales, recsd. DomesticSales, recsd. Export, recsd. Export,
recsd. OtherSales, recsd. OtherSales,
recsd. ShipmentValue, recsd. ShipmentValue,
recsd. LaborTotal, recsd. LaborTotal, recsd. Labor_SC, recsd. Labor_SC,
recsd. RwmT_MEInventory, recsd. RwmT_MEInventory,
recsd. RwmT_MEInventoryValue, recsd. RwmT_MEInventoryValue;

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-- Survey Data Cursor Fetch Looping
while csrcd%found loop

```

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-- Unit Price Calculation
if recsd. ItemType = '1' then
    select sum(a. UnitPrice),
           sum(c. UnitPrice)
    into recsd. UnitPrice, recsd. UnitPrice
    from SurveyData a, SurveyData b, SurveyData c, SurveyData d
    where a. ISIC = b. ISIC
    and a. RegistrationNo = b. RegistrationNo
    and a. CommodityCode = b. CommodityCode
    and a. year = b. Year
    and a. Month = b. Month
    and a. ItemType = '1'
    and a. Atrbt_DomesticSales = 'V'
    and a. Atrbt_Export = 'V'
    and a. Atrbt_OtherSales = 'V'
    and a. year = inYear
    and a. Month = inMonth
    and b. ItemType = '2'
    and b. Atrbt_ShipmentValue = 'V'

    and c. ISIC = d. ISIC
    and c. Year = d. Year

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and      c. Month = d. Month
and      c. RegistrationNo = d. RegistrationNo
and      c. CommodityCode = d. CommodityCode
and      c. ItemType = '1'
and      c. Atrbt_DomesticSales = 'V'
and      c. Atrbt_Export = 'V'
and      c. Atrbt_OtherSales = 'V'
and      c. year = nPY
and      c. Month = nPM
and      d. ItemType = '2'
and      d. Atrbt_ShipmentValue = 'V'

and a. ISIC = c. ISIC
and      a. RegistrationNo = c. RegistrationNo
and      a. CommodityCode = c. CommodityCode

and a. ISIC = recsd. ISIC
and      a. CommodityCode = recsd. CommodityCode;
else
    recsd. UnitPrice := null;
    recsdp. UnitPrice := null;
end if;

-- Growth Rate Calculation
recge. ProductionQty      := null;
recge. Receipts          := null;
I;
recge. DomesticSales     := null;
recge. Export            := null;
= null;
recge. OtherSales        := null;
I;
recge. UnitPrice         := null;
I;
recge. ShipmentValue     := null;
recge. LaborTotal       := null;
I;
recge. Labor_SC          := null;
I;
recge. RWMt_MEInventory  := null;
recge. RWMt_MEInventoryValue := null;

if recsd. ItemType = '1' then
    recge. ProductionQty := f_GRCal(rec
sd. ProductionQty, recsdp. ProductionQty);
    recge. Receipts      :=
= f_GRCal(recsd. Receipts, recsdp. Receipts);
    recge. DomesticSales := f_G
RCal(recsd. DomesticSales, recsdp. DomesticSales);
    recge. Export        :=
:= f_GRCal(recsd. Export, recsdp. Export);
    recge. OtherSales    :=
= f_GRCal(recsd. OtherSales, recsdp. OtherSales);
    recge. UnitPrice     :=
= f_GRCal(recsd. UnitPrice, recsdp. UnitPrice);
    elsif recsd. ItemType = '2' then
        recge. ShipmentValue := f_G
RCal(recsd. ShipmentValue, recsdp. ShipmentValue);
    elsif recsd. ItemType = '3' then
        recge. LaborTotal :=
= f_GRCal(recsd. LaborTotal, recsdp. LaborTotal);
        recge. Labor_SC :=
= f_GRCal(recsd. Labor_SC, recsdp. Labor_SC);
    elsif recsd. ItemType = '4' then
        recge. RWMt_MEInventory := f_GRCal(recsd. RWMt_
MEInventory, recsdp. RWMt_MEInventory);
        recge. RWMt_MEInventoryValue := f_GRCal(recsd. RWMt_MEInven
toryValue, recsdp. RWMt_MEInventoryValue);
    end if;

-- Insert Growth Rate For Estimation Table
insert
into GrowthRateForEstimation(
    ISIC,
    ItemType,
    CommodityCode,
    ProductionQty,

```

```

Receipts,
DomesticSales,
Export,
OtherSales,
UnitPrice,
ShipmentValue,
LaborTotal,
Labor_SC,
RwMt_MEInventory,
RwMt_MEInventoryValue)

Values(
    recsd. ISIC,
    recsd. ItemType,
    recsd. CommodityCode,
    recge. ProductionQty,
    recge. Receipts,
    recge. DomesticSales,
    recge. Export,
    recge. OtherSales,
    recge. UnitPrice,
    recge. ShipmentValue,
    recge. LaborTotal,
    recge. Labor_SC,
    recge. RwMt_MEInventory,
    recge. RwMt_MEInventoryValue);

-- Fetch Survey Data Table
fetch csrsd
into recsd. ISIC, recsd. ItemType, recsd. CommodityCode,
recsd. ProductionQty, recsdp. ProductionQty, recsd. Receipts, recsdp. Rec
eipts,
recsd. DomesticSales, recsdp. DomesticSales, recsd. Export, recsdp. Expor
t,
recsd. OtherSales, recsdp. OtherSales,
recsd. ShipmentValue, recsdp. ShipmentValue,
recsd. LaborTotal, recsdp. LaborTotal, recsd. Labor_SC, recsdp. Labor_S
C,
recsd. RwMt_MEInventory, recsdp. RwMt_MEInventory,
recsd. RwMt_MEInventoryValue, recsdp. RwMt_MEInventoryValue;

end loop;

close csrsd;

commit;

end;

-----
-- Insert Survey Data.
-----

procedure p_SurveyDataIns (
    inYear          in      number,
    inMonth         in      number) is

-- Record Area Define
    recem           EstablishmentMaster%rowtype;
    reccm           CommodityMaster%rowtype;
    recsdp          SurveyData%rowtype;
    recsd           SurveyData%rowtype;

-- Work Area
    nCnt            number;
    nPY             number;
    nPM             number;

-- Establishment Master Cursor
    Cursor          csrem is
        select EstablishmentMaster. ISIC,
                EstablishmentMaster. RegistrationNo,
                EstablishmentMaster. EstimationCode,
                CommodityMaster. ItemType,
                CommodityMaster. CommodityCode
        from EstablishmentMaster, CommodityMaster
        where EstablishmentMaster. ISIC = CommodityMaster. ISIC
              and EstablishmentMaster. ContinuousRespondent = '1';

```



```

Begin
-- DBMS_OUTPUT.PUT_LINE('Start p_ActualValue ' || to_char(sysdate,'HH24:MI:SS'));
-- Establishment and Commodity Master Open Fetch
open csrem;
fetch csrem
into recem.ISIC, recem.RegistrationNo, recem.EstimationCode,
reccm.ItemType, reccm.CommodityCode;

-- Establishment and Commodity Cursor Fetch Looping
while csrem%found loop

-- Survey Data Existing Checking
select count(*)
into nCnt
from SurveyData
where ISIC = recem.ISIC
and Year = i
nYear
and Month = inMonth
and RegistrationNo = recem.RegistrationNo
and ItemType = reccm.lte
mType
and CommodityCode = reccm.CommodityCode;
if nCnt > 0 then
goto FetchNext;
end if;

-- Get Pre Month or Year
if recem.EstimationCode in('1','2') then
if inMonth = 1 then
nPY := inYear - 1;
nPM := 12;
else
nPY := inYear;
nPM := inMonth - 1;
end if;
else
nPY := inYear - 1;
nPM := inMonth;
end if;

-- Pre Survey Data Existing Checking
select count(*)
into nCnt
from SurveyData
where ISIC = recem.ISIC
and Year = n
PY
and Month = nPM
and RegistrationNo = recem.RegistrationNo;
if nCnt < 1 then
goto FetchNext;
end if;

-- Pre Survey Data Select
begin
select *
into recsdp
from SurveyData
where ISIC = r
ecem.ISIC
and Year = nPY
PM
and Month = n
and RegistrationNo = recem.RegistrationNo
and ItemType = r
eccm.ItemType
and CommodityCode = reccm.CommodityCode;
exception
when no_data_found then
recsdp.Atrbt_BM_Inventory
:= 'U';
recsdp.Atrbt_ProductionQty
:= 'U';
recsdp.Atrbt_Receipts

```

```

:= 'U';
recsdp.Atrbt_DomesticSales
:= 'U';
recsdp.Atrbt_Export
:= 'U';
recsdp.Atrbt_OtherSales
:= 'U';
recsdp.Atrbt_ME_Inventory
:= 'U';
recsdp.Atrbt_ShipmentValue
:= 'U';
recsdp.Atrbt_SalesPlan
:= 'U';
recsdp.Atrbt_LaborTotal
:= 'U';
recsdp.Atrbt_Labor_SC
:= 'U';
recsdp.Atrbt_RwMt_MEInventory
:= 'U';
recsdp.Atrbt_RwMt_MEInventoryValue := 'U';
recsdp.Atrbt_Capacity
:= 'U';

end;

if recdm.ItemType = '1' then
if recsdp.Atrbt_BM_Inventory = 'U'
or recsdp.Atrbt_BM_Inventory is null then
recsd.Atrbt_BM_Inventory := 'U';
else
recsd.Atrbt_BM_Inventory := 'X';
end if;
if recsdp.Atrbt_ProductionQty = 'U'
or recsdp.Atrbt_ProductionQty is null then
recsd.Atrbt_ProductionQty := 'U';
else
recsd.Atrbt_ProductionQty := 'X';
end if;
if recsdp.Atrbt_Receipts = 'U'
or recsdp.Atrbt_Receipts is null then
recsd.Atrbt_Receipts := 'U';
else
recsd.Atrbt_Receipts := 'X';
end if;
if recsdp.Atrbt_DomesticSales = 'U'
or recsdp.Atrbt_DomesticSales is null then
recsd.Atrbt_DomesticSales := 'U';
else
recsd.Atrbt_DomesticSales := 'X';
end if;
if recsdp.Atrbt_Export = 'U'
or recsdp.Atrbt_Export is null then
recsd.Atrbt_Export := 'U';
else
recsd.Atrbt_Export := 'X';
end if;
if recsdp.Atrbt_OtherSales = 'U'
or recsdp.Atrbt_OtherSales is null then
recsd.Atrbt_OtherSales := 'U';
else
recsd.Atrbt_OtherSales := 'X';
end if;
if recsdp.Atrbt_ME_Inventory = 'U'
or recsdp.Atrbt_ME_Inventory is null then
recsd.Atrbt_ME_Inventory := 'U';
else
recsd.Atrbt_ME_Inventory := 'X';
end if;

insert
into SurveyData(
ISIC,
Year,
Month,
RegistrationNo,
ItemType,
CommodityCode,
Atrbt_BM_Inventory,

```

```

        Atrbt_ProductionQty,
        Atrbt_Receipts,
        Atrbt_DomesticSales,
        Atrbt_Export,
        Atrbt_OtherSales,
        Atrbt_ME_Inventory,
        UserID,
        RecDate)
    Values(
        recem. ISIC,
        inYear,
        inMonth,
        recem. RegistrationNo,
        reccm. ItemType,
        reccm. CommodityCode,
        recsd. Atrbt_BM_Inventory,
        recsd. Atrbt_ProductionQty,
        recsd. Atrbt_Receipts,
        recsd. Atrbt_DomesticSales,
        recsd. Atrbt_Export,
        recsd. Atrbt_OtherSales,
        recsd. Atrbt_ME_Inventory,
        'AutoEstlms',
        sysdate);

elseif reccm. ItemType = '2' then
    if recsd. Atrbt_ShipmentValue = 'U'
    or recsd. Atrbt_ShipmentValue is null then
        recsd. Atrbt_ShipmentValue := 'U';
    else
        recsd. Atrbt_ShipmentValue := 'X';
    end if;
    insert
        into SurveyData(
            ISIC,
            Year,
            Month,
            RegistrationNo,
            ItemType,
            CommodityCode,
            Atrbt_ShipmentValue,
            Atrbt_SalesPlan,
            UserID,
            RecDate)
        Values(
            recem. ISIC,
            inYear,
            inMonth,
            recem. RegistrationNo,
            reccm. ItemType,
            reccm. CommodityCode,
            recsd. Atrbt_ShipmentValue,
            'U',
            'AutoEstlms',
            sysdate);
elseif reccm. ItemType = '3' then
    if reccm. CommodityCode = '010' then
        if recsd. Atrbt_LaborTotal = 'U'
        or recsd. Atrbt_LaborTotal is null then
            recsd. Atrbt_LaborTotal := 'U';
        else
            recsd. Atrbt_LaborTotal := 'X';
        end if;
        if recsd. Atrbt_Labor_SC = 'U'
        or recsd. Atrbt_Labor_SC is null then
            recsd. Atrbt_Labor_SC := 'U';
        else
            recsd. Atrbt_Labor_SC := 'X';
        end if;
        insert
            into SurveyData(
                ISIC,
                Year,
                Month,
                RegistrationNo,

```

```

        ItemType,
        CommodityCode,
        Atrbt_LaborTotal,
        Atrbt_Labor_SC,
        UserID,
        RecDate)
    Values(
        recem. ISIC,
        inYear,
        inMonth,
        recem. RegistrationNo,
        reccm. ItemType,
        reccm. CommodityCode,
        recsd. Atrbt_LaborTotal,
        recsd. Atrbt_Labor_SC,
        'AutoEstIns',
        sysdate);
else
    if
        recsd. Atrbt_LaborTotal = 'U'
    or
        recsd. Atrbt_LaborTotal is null then
        recsd. Atrbt_LaborTotal := 'U';
    else
        recsd. Atrbt_LaborTotal := 'X';
    end if;
    insert
        into
            SurveyData(
                ISIC,
                Year,
                Month,
                RegistrationNo,
                ItemType,
                CommodityCode,
                Atrbt_LaborTotal,
                UserID,
                RecDate)
        Values(
            recem. ISIC,
            inYear,
            inMonth,
            recem. RegistrationNo,
            reccm. ItemType,
            reccm. CommodityCode,
            recsd. Atrbt_LaborTotal,
            'AutoEstIns',
            sysdate);
end if;
elsif
    reccm. ItemType = '4' then
    if
        recsd. Atrbt_RwMt_MEInventory = 'U'
    or
        recsd. Atrbt_RwMt_MEInventory is null then
        recsd. Atrbt_RwMt_MEInventory := 'U';
    else
        recsd. Atrbt_RwMt_MEInventory := 'X';
    end if;
    if
        recsd. Atrbt_RwMt_MEInventoryValue = 'U'
    or
        recsd. Atrbt_RwMt_MEInventoryValue is null then
        recsd. Atrbt_RwMt_MEInventoryValue := 'U';
    else
        recsd. Atrbt_RwMt_MEInventoryValue := 'X';
    end if;
    insert
        into
            SurveyData(
                ISIC,
                Year,
                Month,
                RegistrationNo,
                ItemType,
                CommodityCode,
                Atrbt_RwMt_MEInventory,
                Atrbt_RwMt_MEInventoryValue,
                UserID,
                RecDate)
        Values(
            recem. ISIC,
            inYear,
            inMonth,
            recem. RegistrationNo,

```

```

reccm.ItemType,
reccm.CommodityCode,
recsd.Atrbt_RwMt_MEInventory,
recsd.Atrbt_RwMt_MEInventoryValue,
'AutoEstIns',
sysdate);
elsif reccm.ItemType = '5' then
insert
into SurveyData(
ISIC,
Year,
Month,
RegistrationNo,
ItemType,
CommodityCode,
UserID,
RecDate)
Values(
reccm.ISIC,
inYear,
inMonth,
reccm.RegistrationNo,
reccm.ItemType,
reccm.CommodityCode,
'AutoEstIns',
sysdate);
elsif reccm.ItemType = '6' then
if recsdp.Atrbt_Capacity = 'U'
or recsdp.Atrbt_Capacity is null then
recsd.Atrbt_Capacity := 'U';
else
recsd.Atrbt_Capacity := 'X';
end if;
insert
into SurveyData(
ISIC,
Year,
Month,
RegistrationNo,
ItemType,
CommodityCode,
Atrbt_Capacity,
UserID,
RecDate)
Values(
reccm.ISIC,
inYear,
inMonth,
reccm.RegistrationNo,
reccm.ItemType,
reccm.CommodityCode,
recsd.Atrbt_Capacity,
'AutoEstIns',
sysdate);
end if;
-- Insert Survey Header
begin
insert
into SurveyHeader(
ISIC,
Year,
Month,
RegistrationNo,
EstimatedMark,
RevisedStatus,
YearlyStatus)
values(
reccm.ISIC,
inYear,
inMonth,
reccm.RegistrationNo,
'2',
'0',
'0');
exception

```

```

                when dup_val_on_index then
                    null;
            end;

-- Label
                <<FetchNext>>

-- Establishment and Commodity Cursor Fetch Looping
            fetch    csrem
            into      recem. ISIC, recem. RegistrationNo, recem. EstimationCode,
                    reccm. ItemType, reccm. CommodityCode;

            end loop;

            close csrem;

            commit;

        end;

-----
-- Automatic Estimation For Item Type 1.
-----

procedure p_AutoEst11 (
    inYear          in      number,
    inMonth         in      number) is

-- Record Area Define
    recge           GrowthRateForEstimation%rowtype;
    recsd           SurveyData%rowtype;
    recsdm          SurveyData%rowtype;
    recsdy          SurveyData%rowtype;
    recem           EstablishmentMaster%rowtype;

-- Work Area
    nPY_Y           number;
    nPY_M           number;
    nPM_Y           number;
    nPM_M           number;

-- Survey Data Cursor(Item Type 1)
    Cursor csrsd is
        select  SurveyData. ISIC,
                SurveyData. Year,
                SurveyData. Month,
                SurveyData. RegistrationNo,
                SurveyData. CommodityCode,
                SurveyData. BM_Inventory,
                SurveyData. Atrbt_BM_Inventory,
                SurveyData. ProductionQty,
                SurveyData. Atrbt_ProductionQty,
                SurveyData. Receipts,
                SurveyData. Atrbt_Receipts,
                SurveyData. DomesticSales,
                SurveyData. Atrbt_DomesticSales,
                SurveyData. Export,
                SurveyData. Atrbt_Export,
                SurveyData. OtherSales,
                SurveyData. Atrbt_OtherSales,
                SurveyData. ME_Inventory,
                SurveyData. Atrbt_ME_Inventory,
                EstablishmentMaster. EstimationCode
        from    SurveyData, EstablishmentMaster
        where   SurveyData. ISIC =      EstablishmentMaster. ISIC
                and SurveyData. RegistrationNo =      EstablishmentMaste

r. RegistrationNo

                and year          = inYear
                and Month         = inMonth
                and ItemType      = '1';

Begin
-- Delete Error Message Table
    delete from ErrorLog
    where Year = inYear
          and Month = inMonth;

-- Get Pre Year and Month

```

```

    if      inMonth = 1 then
        nPM_Y := inYear - 1;
        nPM_M := 12;
    else
        nPM_Y := inYear;
        nPM_M := inMonth - 1;
    end if;
    nPY_Y := inYear - 1;
    nPY_M := inMonth;

-- Survey Data Open and Fetch(Item Type 1)
    open      csrds;
    fetch      csrds
    into      recsd. ISIC, recsd. Year, recsd. Month, recsd. RegistrationNo, recsd. Commo
    dityCode,
                                recsd. BM_Inventory, recsd. Atrbt_BM_Inventory,
                                recsd. ProductionQty, recsd. Atrbt_ProductionQty,
                                recsd. Receipts, recsd. Atrbt_Receipts,
                                recsd. DomesticSales, recsd. Atrbt_DomesticSales,
                                recsd. Export, recsd. Atrbt_Export,
                                recsd. OtherSales, recsd. Atrbt_OtherSales,
                                recsd. ME_Inventory, recsd. Atrbt_ME_Inventory,
                                recem. EstimationCode;

-- Survey Data Looping(Item Type 1)
    while csrds%found loop

-- Skip Data(Estimated is Nothing)
        if      recsd. Atrbt_BM_Inventory      = 'X'
        or      recsd. Atrbt_ProductionQty = 'X'
        or      recsd. Atrbt_Receipts      =      'X'      'X'
        or      recsd. Atrbt_DomesticSales    =      'X'      =      'X'
        or      recsd. Atrbt_Export      =      'X'      =      'X'
        or      recsd. Atrbt_OtherSales    =      'X'
        or      recsd. Atrbt_ME_Inventory    =      'X' then
            null;
        else
            goto FetchNext;
        end if;

-- Check and Replace Attribute
        if      recsd. Atrbt_BM_Inventory != 'X' then
            p_ErrLogIns(recsd. ISIC, recsd. Year, recsd. Month, recsd. RegistrationN
o, '1',
                                recsd. Commo
dityCode, 'R11');
            recsd. Atrbt_BM_Inventory := 'X';
        end if;
        if      recsd. Atrbt_ProductionQty != 'X' then
            p_ErrLogIns(recsd. ISIC, recsd. Year, recsd. Month, recsd. RegistrationN
o, '1',
                                recsd. Commo
dityCode, 'R12');
            recsd. Atrbt_ProductionQty := 'X';
        end if;
        if      recsd. Atrbt_Receipts != 'X' then
            p_ErrLogIns(recsd. ISIC, recsd. Year, recsd. Month, recsd. RegistrationN
o, '1',
                                recsd. Commo
dityCode, 'R13');
            recsd. Atrbt_Receipts := 'X';
        end if;
        if      recsd. Atrbt_DomesticSales != 'X' then
            p_ErrLogIns(recsd. ISIC, recsd. Year, recsd. Month, recsd. RegistrationN
o, '1',
                                recsd. Commo
dityCode, 'R14');
            recsd. Atrbt_DomesticSales := 'X';
        end if;
        if      recsd. Atrbt_Export != 'X' then
            p_ErrLogIns(recsd. ISIC, recsd. Year, recsd. Month, recsd. RegistrationN
o, '1',
                                recsd. Commo
dityCode, 'R15');
            recsd. Atrbt_Export := 'X';
        end if;
        if      recsd. Atrbt_OtherSales != 'X' then

```

```

o, '1',
dutyCode, 'R16');
recsd. Atrbt_OtherSales := 'X';
end if;
if recsd. Atrbt_ME_Inventory != 'X' then
o, '1',
dutyCode, 'R17');
recsd. Atrbt_ME_Inventory := 'X';
end if;

-- Select Pre Month Survey Data
begin
select *
into recsdm
from SurveyData
where ISIC = r
and Year = nPM_Y
and Month = nPM_M
and RegistrationNo = recsd. RegistrationNo
and ItemType = '1'
and CommodityCode = recsd. CommodityCode;
exception
when no_data_found then
recsdm. Atrbt_BM_Inventory := null;
recsdm. Atrbt_ProductionQty := null;
recsdm. Atrbt_Receipts := null;
recsdm. Atrbt_DomesticSales := null;
recsdm. Atrbt_Export := null;
recsdm. Atrbt_OtherSales := null;
end;

-- Estimate by Establishment Code.
if recem. EstimationCode = '1' then
p_CommEst(recsd. ISIC, recsd. Year, recsd. Month, recsd. RegistrationNo, '1',
recsd. CommodityCode, '2', 'M',
recsd. ProductionQty, recsd.
Atrbt_ProductionQty, recsd.
m. Atrbt_ProductionQty, null);
p_CommEst(recsd. ISIC, recsd. Year, recsd. Month, recsd. RegistrationNo, '1',
recsd. CommodityCode, '3', 'M',
recsd. Receipts, recsd. Atrbt
_Receipts, recsd.
bt_Receipts, null);
p_CommEst(recsd. ISIC, recsd. Year, recsd. Month, recsd. RegistrationNo, '1',
recsd. CommodityCode, '4', 'M',
recsd. DomesticSales, recsd.
Atrbt_DomesticSales, recsd.
m. Atrbt_DomesticSales, null);
p_CommEst(recsd. ISIC, recsd. Year, recsd. Month, recsd. RegistrationNo, '1',
recsd. CommodityCode, '5', 'M',
recsd. Export, recsd. Atrbt_E
_xport, recsd.
_Export, null);
p_CommEst(recsd. ISIC, recsd. Year, recsd. Month, recsd. RegistrationNo, '1',
recsd. CommodityCode, '6', 'M',

```



```

bt_OtherSales,                                recsd. OtherSales, recsd. Atr
trbt_OtherSales, null);                        recsdm. OtherSales, recsdm. A

        elsif recem.EstimationCode = '2' then
        begin
            select *
            into   recge
            from   GrowthRateForEstimation
            where  ISIC
                = recsd. ISIC
                and ItemType
                = '1'
                and CommodityCode = recsd. CommodityCo
de;
        exception
        when no_data_found then
            recge. ProductionQty := null;
            recge. Receipts      := null;
            recge. DomesticSales := null;
            recge. Export        := null;
            recge. OtherSales    := null;
        end;

        p_CommEst(recsd. ISIC, recsd. Year, recsd. Month, recsd. RegistrationNo, '
1',
',
',
Atrbt_ProductionQty,
recsd. CommodityCode, '2', 'G
recsd. ProductionQty, recsd.
recsdm. ProductionQty, recsd
m. Atrbt_ProductionQty, recge. ProductionQty);
        p_CommEst(recsd. ISIC, recsd. Year, recsd. Month, recsd. RegistrationNo, '
1',
',
',
_Receipts,
recsd. Receipts, recsd. Atrbt
recsdm. Receipts, recsdm. Atr
bt_Receipts, recge. Receipts);
        p_CommEst(recsd. ISIC, recsd. Year, recsd. Month, recsd. RegistrationNo, '
1',
',
',
Atrbt_DomesticSales,
recsd. CommodityCode, '4', 'G
recsd. DomesticSales, recsd.
recsdm. DomesticSales, recsd
m. Atrbt_DomesticSales, recge. DomesticSales);
        p_CommEst(recsd. ISIC, recsd. Year, recsd. Month, recsd. RegistrationNo, '
1',
',
',
xport,
recsd. Export, recsd. Atrbt_E
recsdm. Export, recsdm. Atrbt
_Export, recge. Export);
        p_CommEst(recsd. ISIC, recsd. Year, recsd. Month, recsd. RegistrationNo, '
1',
',
',
bt_OtherSales,
recsd. OtherSales, recsd. Atr
recsdm. OtherSales, recsdm. A

        elsif recem.EstimationCode = '3' then
        begin
            select *
            into   recsdy
            from   SurveyData
            where  ISIC
                = recsd. ISIC
                and Year
                = nPY_Y
                and Month
                = nPY_M

```

```

nNo
    and RegistrationNo = recsd.Registratio
    and ItemType
    and CommodityCode = recsd.CommodityCo
de;
    exception
        when no_data_found then
            recsdy.Atrbt_ProductionQty := null;
            recsdy.Atrbt_Receipts := null;
            recsdy.Atrbt_DomesticSales := null;
            recsdy.Atrbt_Export :=
null;
            recsdy.Atrbt_OtherSales := null;
        end;

        p_CommEst(recsd.ISIC, recsd.Year, recsd.Month, recsd.RegistrationNo, '
1',
,
recsd.CommodityCode, '2', 'Y
recsd.ProductionQty, recsd.
Atrbt_ProductionQty,
recsdy.ProductionQty, recsd
y.Atrbt_ProductionQty, null);
        p_CommEst(recsd.ISIC, recsd.Year, recsd.Month, recsd.RegistrationNo, '
1',
,
recsd.CommodityCode, '3', 'Y
recsd.Receipts, recsd.Atrbt
_Receipts,
recsdy.Receipts, recsdy.Atr
bt_Receipts, null);
        p_CommEst(recsd.ISIC, recsd.Year, recsd.Month, recsd.RegistrationNo, '
1',
,
recsd.CommodityCode, '4', 'Y
recsd.DomesticSales, recsd.
Atrbt_DomesticSales,
recsdy.DomesticSales, recsd
y.Atrbt_DomesticSales, null);
        p_CommEst(recsd.ISIC, recsd.Year, recsd.Month, recsd.RegistrationNo, '
1',
,
recsd.CommodityCode, '5', 'Y
recsd.Export, recsd.Atrbt_E
xport,
recsdy.Export, recsdy.Atrbt
_Export, null);
        p_CommEst(recsd.ISIC, recsd.Year, recsd.Month, recsd.RegistrationNo, '
1',
,
recsd.CommodityCode, '6', 'Y
recsd.OtherSales, recsd.Atr
bt_OtherSales,
recsdy.OtherSales, recsdy.A
trbt_OtherSales, null);
    end if;

-- Calculate Others
        p_CommEst(recsd.ISIC, recsd.Year, recsd.Month, recsd.RegistrationNo, '1',
recsd.CommodityCode, '1', 'M',
recsd.BM_Inventory, recsd.Atrbt_BM_
Inventory,
recsdm.ME_Inventory, recsdm.Atrbt_M
E_Inventory, null);

        recsd.ME_Inventory := recsd.ProductionQty + recsd.Receipts + recsd.BM_Inve
ntory -
        (recsd.DomesticSales + recsd.Export + recsd.OtherSales);
        recsd.Atrbt_ME_Inventory := 'Y';

        if recsd.ME_Inventory < 0 then
            p_ErrLogIns(recsd.ISIC, recsd.Year, recsd.Month, recsd.RegistrationN
o, '1',

```

```

e, 'L17');
                                recsd. CommodityCod
                                end if;

-- Update Survey Data
if recsd. Atrbt_BM_Inventory = 'X'
or recsd. Atrbt_ProductionQty = 'X'
or recsd. Atrbt_Receipts = 'X'
or recsd. Atrbt_DomesticSales = 'X'
or recsd. Atrbt_Export = 'X'
or recsd. Atrbt_OtherSales = 'X'
or recsd. Atrbt_ME_Inventory = 'X' then
recsd. Atrbt_BM_Inventory := 'X';
recsd. Atrbt_ProductionQty := 'X';
recsd. Atrbt_Receipts := 'X';
recsd. Atrbt_DomesticSales := 'X';
recsd. Atrbt_Export := 'X';
recsd. Atrbt_OtherSales := 'X';
recsd. Atrbt_ME_Inventory := 'X';
recsd. BM_Inventory := null;
recsd. ProductionQty := null;
recsd. Receipts := null;
recsd. DomesticSales := null;
recsd. Export := null;
recsd. OtherSales := null;
recsd. ME_Inventory := null;
end if;

update SurveyData
set
Inventory, BM_Inventory = recsd. BM_
ductionQty, ProductionQty = recsd. Pro
Receipts = recsd. Receipts,
DomesticSales = r
ecsd. DomesticSales, Export
= recsd. Export, OtherSales
= recsd. OtherSales, ME_Inventory = r
ecsd. ME_Inventory, Atrbt_BM_Inventory = recsd. Atrbt_BM_In
ventory, Atrbt_ProductionQty = recsd. Atrbt_Producti
onQty, Atrbt_Receipts = recsd. Atr
bt_Receipts, Atrbt_DomesticSales = recsd. Atrbt_Domes
ticSales, Atrbt_Export = r
ecsd. Atrbt_Export, Atrbt_OtherSales = recsd. Atr
bt_OtherSales, Atrbt_ME_Inventory = recsd. Atrbt_ME_In
ventory
where ISIC
= recsd. ISIC
= recsd. Year
= recsd. Month
nNo
= '1'
and Year
and Month
and RegistrationNo = recsd. Registratio
and ItemType
and CommodityCode = recsd. CommodityCo
de;
-- Label
<<FetchNext>>

-- Survey Data Fetch(Item Type 1)
fetch cnsd
into recsd. ISIC, recsd. Year, recsd. Month, recsd. RegistrationNo, rec
sd. CommodityCode,
recsd. BM_Inventory, recsd. Atrbt_BM_Inventor

```

```

y,
Qty,
les,
y,
end loop;
close csrds;
commit;
end;

```

```

recsd. ProductionQty, recsd. Atrbt_Production
recsd. Receipts, recsd. Atrbt_Receipts,
recsd. DomesticSales, recsd. Atrbt_DomesticSa
recsd. Export, recsd. Atrbt_Export,
recsd. OtherSales, recsd. Atrbt_OtherSales,
recsd. ME_Inventory, recsd. Atrbt_ME_Inventor
recem. EstimationCode;

```

-- Automatic Estimation For Item Type 2.

```

procedure p_AutoEst12 (
    inYear          in number,
    inMonth         in number) is
-- Record Area Define
    recge           GrowthRateForEstimation%rowtype;
    recsd           SurveyData%rowtype;
    recsdm          SurveyData%rowtype;
    recsdy          SurveyData%rowtype;
    recsdt          SurveyData%rowtype;
    recsdu          SurveyData%rowtype;
    recem           EstablishmentMaster%rowtype;
-- Work Area
    nPY_Y           number;
    nPY_M           number;
    nPM_Y           number;
    nPM_M           number;
    nShipment       number;
-- Survey Data Cursor(Item Type 2)
    Cursor csrds is
        select SurveyData. ISIC,
               SurveyData. Year,
               SurveyData. Month,
               SurveyData. RegistrationNo,
               SurveyData. CommodityCode,
               SurveyData. ShipmentValue,
               SurveyData. Atrbt_ShipmentValue,
               EstablishmentMaster. EstimationCode
        from SurveyData, EstablishmentMaster
        where SurveyData. ISIC = EstablishmentMaster. ISIC
              and SurveyData. RegistrationNo = EstablishmentMaste
r. RegistrationNo
              and year = inYear
              and Month = inMonth
              and ItemType = '2';
Begin
-- DBMS_OUTPUT.PUT_LINE(' Start p_ActualValue ' || to_char(sysdate,'HH24:MI:SS'));
-- Get Pre Year and Month
    if inMonth = 1 then
        nPM_Y := inYear - 1;
        nPM_M := 12;
    else
        nPM_Y := inYear;
        nPM_M := inMonth - 1;
    end if;
    nPY_Y := inYear - 1;
    nPY_M := inMonth;
-- Survey Data Open and Fetch(Item Type 2)
    open csrds;
    fetch csrds

```

```

into recsd. ISIC, recsd. Year, recsd. Month, recsd. RegistrationNo, recsd. Commo
dityCode,
recsd. ShipmentValue, recsd. Atrbt_ShipmentValue,
recem. EstimationCode;

-- Survey Data Looping(Item Type 2)
while crrsd%found loop

-- Skip Data(Estimated is Nothing)
if recsd. Atrbt_ShipmentValue != 'X' then
goto FetchNext;
end if;

-- Estimation by Establishment Code
if recem. EstimationCode = '1' then
begin
select *
into recsdm
from SurveyData
where ISIC
= recsd. ISIC
and Year
= nPM_Y
and Month
= nPM_M
and RegistrationNo = recsd. Registratio
nNo
and ItemType
= '2'
and CommodityCode = recsd. CommodityCo
de;
exception
when no_data_found then
recsdm. Atrbt_ShipmentValue := null;
end;
p_CommEst(recsd. ISIC, recsd. Year, recsd. Month, recsd. RegistrationNo, '
2',
recsd. CommodityCode, '1', 'M',
recsd. ShipmentValue, recsd. Atrbt_ShipmentValue,
recsdm. ShipmentValue, recsdm. Atrbt_ShipmentValue, nu
11);

elsif recem. EstimationCode = '2' then
begin
select *
into recsdm
from SurveyData
where ISIC
= recsd. ISIC
and Year
= nPM_Y
and Month
= nPM_M
and RegistrationNo = recsd. Registratio
nNo
and ItemType
= '2'
and CommodityCode = recsd. CommodityCo
de;
exception
when no_data_found then
recsdm. Atrbt_ShipmentValue := null;
end;
if recsd. CommodityCode = '999' then
begin
select *
into recge
from GrowthRateForEstimation
where ISIC
= recsd. ISIC
and ItemType
= '2'
and CommodityCode = recsd. Com
modityCode;
exception

```

```

        when no_data_found then
            recge.ShipmentValue := null;
        end;

        p_CommEst(recsd. ISIC, recsd. Year, recsd. Month, recsd. Registra
tionNo, '2',
e, '1', 'G',
e, recsd. Atrbt_ShipmentValue,
e, recsdm. Atrbt_ShipmentValue, recge. ShipmentValue);

        else
            begin
                select *
                    into recge
                    from GrowthRateForEstimation
                    where ISIC
= recsd. ISIC
= '1'
                    and ItemType
                    and CommodityCode = recsd. Com
modityCode;

                exception
                    when no_data_found then
                        recge.UnitPrice := null;
                    end;

                begin
                    select *
                        into recsdu
                        from SurveyData
                        where ISIC
= recsd. ISIC
= nPM_Y
= nPM_M
                    and Year
                    and Month
                    and RegistrationNo = recsd. Reg
istrationNo
                    and ItemType
= '1'
                    and CommodityCode = recsd. Com
modityCode;

                    exception
                        when no_data_found then
                            recsdu.UnitPrice := null;
                        end;

                        begin
                            select *
                                into recsdt
                                from SurveyData
                                where ISIC
= recsd. ISIC
= recsd. Year
= recsd. Month
                                and Year
                                and Month
                                and RegistrationNo = recsd. Reg
istrationNo
                                and ItemType
= '1'
                                and CommodityCode = recsd. Com
modityCode;

                                exception
                                    when no_data_found then
                                        recsdt.DomesticSales := null;
                                        recsdt.Export :=
null;

                                    end;

                                    nShipment := nvl(recsdt.DomesticSales, 0) + nvl(recsdt.E
xport, 0);

```

```

tionNo, '2',
e, '1', 'G',
e, recsd. Atrbt_ShipmentValue,
nShipment,
ntValue, recge. UnitPrice);

p_CommEst(recsd. ISIC, recsd. Year, recsd. Month, recsd. Registra
recsd. CommodityCod
recsd. ShipmentValu
recsdu. UnitPrice *
recsdm. Atrbt_Shipme

end if;

elsif recem. EstimationCode = '3' then
begin
select *
into recsdy
from SurveyData
where ISIC
= recsd. ISIC
= nPY_Y
= nPY_M
nNo
= '2'
and Year
and Month
and RegistrationNo = recsd. Registratio
and ItemType
and CommodityCode = recsd. CommodityCo

exception
when no_data_found then
recsdy. Atrbt_ShipmentValue := null;
end;

p_CommEst(recsd. ISIC, recsd. Year, recsd. Month, recsd. RegistrationNo, '
2',
recsd. CommodityCode, '1', 'Y',
recsd. ShipmentValue, recsd. Atrbt_ShipmentValue,
recsdy. ShipmentValue, recsdy. Atrbt_ShipmentValue, nu
11);

end if;

-- Update Survey Data
if recsd. Atrbt_ShipmentValue = 'Y' then
update SurveyData
set ShipmentValue = r
ecsd. ShipmentValue,
bt_ShipmentValue Atrbt_ShipmentValue = recsd. Atr
where ISIC
= recsd. ISIC
= recsd. Year
= recsd. Month
and Year
and Month
and RegistrationNo = recsd. Reg
and ItemType
= '2'
and CommodityCode = recsd. Com
modityCode;
end if;

-- Label
<<FetchNext>>

-- Survey Data Fetch(Item Type 2)
fetch csrsd
into recsd. ISIC, recsd. Year, recsd. Month, recsd. RegistrationNo, rec
sd. CommodityCode,
recsd. ShipmentValue, recsd. Atrbt_ShipmentVa
lue,
recem. EstimationCode;

end loop;

```

```

        close csrds;

        commit;

    end;

-----
-- Automatic Estimation For Item Type 3.
-----

procedure p_AutoEstI3 (
    inYear          in      number,
    inMonth         in      number) is

-- Record Area Define
    recge          GrowthRateForEstimation%rowtype;
    recsd          SurveyData%rowtype;
    recsdm         SurveyData%rowtype;
    recsdy         SurveyData%rowtype;
    recem          EstablishmentMaster%rowtype;

-- Work Area
    nPY_Y          number;
    nPY_M          number;
    nPM_Y          number;
    nPM_M          number;

-- Survey Data Cursor(Item Type 3)
    Cursor csrds is
        select SurveyData.ISIC,
               SurveyData.Year,
               SurveyData.Month,
               SurveyData.RegistrationNo,
               SurveyData.CommodityCode,
               SurveyData.LaborTotal,
               SurveyData.Atrbt_LaborTotal,
               SurveyData.Labor_SC,
               SurveyData.Atrbt_Labor_SC,
               EstablishmentMaster.EstimationCode
        from SurveyData, EstablishmentMaster
        where SurveyData.ISIC = EstablishmentMaster.ISIC
              and SurveyData.RegistrationNo = EstablishmentMaste
r.RegistrationNo
              and year = inYear
              and Month = inMonth
              and ItemType = '3';

    Begin
-- DBMS_OUTPUT.PUT_LINE('Start p_ActualValue ' || to_char(sysdate, 'HH24:MI:SS'));
-- Get Pre Year and Month
        if inMonth = 1 then
            nPM_Y := inYear - 1;
            nPM_M := 12;
        else
            nPM_Y := inYear;
            nPM_M := inMonth - 1;
        end if;
        nPY_Y := inYear - 1;
        nPY_M := inMonth;

-- Survey Data Open and Fetch(Item Type 3)
        open csrds;
        fetch csrds
            into recsd.ISIC, recsd.Year, recsd.Month, recsd.RegistrationNo, recsd.Commo
dityCode,
               recsd.LaborTotal, recsd.Atrbt_LaborTotal,
               recsd.Labor_SC, recsd.Atrbt_Labor_SC,
               recem.EstimationCode;

-- Survey Data Looping(Item Type 3)
        while csrds%found loop

-- Skip Data(Estimated is Nothing)
            if recsd.Atrbt_LaborTotal = 'X'
            or recsd.Atrbt_Labor_SC = 'X' then
                null;
            else
                goto FetchNext;
            end if;
        end while;
    end p_AutoEstI3;

```



```

end if;

if      recem.EstimationCode = '1' then
begin
      select  *
              into    recsdm
              from    SurveyData
              where   ISIC
= recsd. ISIC
              and    Year
              = nPM_Y
              and    Month
= nPM_M
              and    RegistrationNo = recsd.Registratio
nNo
              and    ItemType
= '3'
              and    CommodityCode = recsd.CommodityCo
de;

      exception
      when no_data_found then
        recsdm.Atrbt_LaborTotal := null;
        recsdm.Atrbt_Labor_SC := null;
      end;

      p_CommEst(recsd. ISIC, recsd. Year, recsd. Month, recsd. RegistrationNo, '
3',
                recsd.CommodityCode, '1', 'M',
                recsd.LaborTotal, recsd.Atrbt_LaborTotal,
                recsdm.LaborTotal, recsdm.Atrbt_LaborTotal, null);

      p_CommEst(recsd. ISIC, recsd. Year, recsd. Month, recsd. RegistrationNo, '
3',
                recsd.CommodityCode, '2', 'M',
                recsd.Labor_SC, recsd.Atrbt_Labor_SC,
                recsdm.Labor_SC, recsdm.Atrbt_Labor_SC, null);

elseif  recem.EstimationCode = '2' then
begin
      select  *
              into    recsdm
              from    SurveyData
              where   ISIC
= recsd. ISIC
              and    Year
              = nPM_Y
              and    Month
= nPM_M
              and    RegistrationNo = recsd.Registratio
nNo
              and    ItemType
= '3'
              and    CommodityCode = recsd.CommodityCo
de;

      exception
      when no_data_found then
        recsdm.Atrbt_LaborTotal := null;
        recsdm.Atrbt_Labor_SC := null;
      end;

      begin
      select  *
              into    recge
              from    GrowthRateForEstimation
              where   ISIC
= recsd. ISIC
              and    ItemType
= '3'
              and    CommodityCode = recsd.CommodityCo
de;

      exception
      when no_data_found then
        recge.LaborTotal := null;
        recge.Labor_SC := null;
      end;

      p_CommEst(recsd. ISIC, recsd. Year, recsd. Month, recsd. RegistrationNo, '

```

```

3',
recsd.CommodityCode, '1', 'G',
recsd.LaborTotal, recsd.Atrbt_LaborTotal,
recsdm.LaborTotal, recsdm.Atrbt_LaborTotal, recge.La
borTotal);

3',
p_CommEst(recsd.ISIC, recsd.Year, recsd.Month, recsd.RegistrationNo, '
recsd.CommodityCode, '2', 'G',
recsd.Labor_SC, recsd.Atrbt_Labor_SC,
recsdm.Labor_SC, recsdm.Atrbt_Labor_SC, recge.Labor_
SC);

elseif recem.EstimationCode = '3' then
begin
select *
into recsdy
from SurveyData
where ISIC
= recsd.ISIC
and Year
= nPY_Y
and Month
= nPY_M
and RegistrationNo = recsd.Registratio
nNo
and ItemType
= '3'
and CommodityCode = recsd.CommodityCo
de;
exception
when no_data_found then
recsdy.LaborTotal := null;
recsdy.Labor_SC := null;
end;

3',
p_CommEst(recsd.ISIC, recsd.Year, recsd.Month, recsd.RegistrationNo, '
recsd.CommodityCode, '1', 'Y',
recsd.LaborTotal, recsd.Atrbt_LaborTotal,
recsdy.LaborTotal, recsdy.Atrbt_LaborTotal, null);

3',
p_CommEst(recsd.ISIC, recsd.Year, recsd.Month, recsd.RegistrationNo, '
recsd.CommodityCode, '2', 'Y',
recsd.Labor_SC, recsd.Atrbt_Labor_SC,
recsdy.Labor_SC, recsdy.Atrbt_Labor_SC, null);

end if;

-- Update Survey Data
if recsd.Atrbt_LaborTotal = 'Y'
or recsd.Atrbt_Labor_SC = 'Y' then
update SurveyData
set LaborTotal
= recsd.LaborTotal,
Labor_SC
= recsd.Labor_SC,
Atrbt_LaborTotal = r
ecsd.Atrbt_LaborTotal,
Atrbt_Labor_SC = r
ecsd.Atrbt_Labor_SC
where ISIC
= recsd.ISIC
and Year
= recsd.Year
and Month
= recsd.Month
and RegistrationNo = recsd.Reg
istrationNo
and ItemType
= '3'
and CommodityCode = recsd.Com
modityCode;
end if;

-- Label

```

```

        <<FetchNext>>

-- Survey Data Fetch(Item Type 3)
        fetch      csrsd
        into       recsd. ISIC, recsd. Year, recsd. Month, recsd. RegistrationNo, rec
sd. CommodityCode,
                                recsd. LaborTotal, recsd. Atrbt_LaborTotal,
                                recsd. Labor_SC, recsd. Atrbt_Labor_SC,
                                recem. EstimationCode;

        end loop;

        close csrsd;

        commit;

end;

```

```

-----
-- Automatic Estimation For Item Type 4.
-----

```

```

procedure p_AutoEstl4 (
        inYear          in      number,
        inMonth         in      number) is

-- Record Area Define
        recge           GrowthRateForEstimation%rowtype;
        recsd           SurveyData%rowtype;
        recsdm          SurveyData%rowtype;
        recsdy          SurveyData%rowtype;
        recem           EstablishmentMaster%rowtype;

-- Work Area
        nPY_Y           number;
        nPY_M           number;
        nPM_Y           number;
        nPM_M           number;

-- Survey Data Cursor(Item Type 4)
        Cursor csrsd is
                select  SurveyData. ISIC,
                                SurveyData. Year,
                                SurveyData. Month,
                                SurveyData. RegistrationNo,
                                SurveyData. CommodityCode,
                                SurveyData. RwMt_MEInventory,
                                SurveyData. Atrbt_RwMt_MEInventory,
                                SurveyData. RwMt_MEInventoryValue,
                                SurveyData. Atrbt_RwMt_MEInventoryValue,
                                EstablishmentMaster. EstimationCode
                from      SurveyData, EstablishmentMaster
                where     SurveyData. ISIC =      EstablishmentMaster. ISIC
                        and SurveyData. RegistrationNo =      EstablishmentMaste
r. RegistrationNo
                        and      year              = inYear
                        and      Month             = inMonth
                        and      ItemType           = '4';

Begin
--      DBMS_OUTPUT.PUT_LINE('Start p_ActualValue ' || to_char(sysdate, 'HH24:MI:SS'));
-- Get Pre Year and Month
        if      inMonth = 1 then
                nPM_Y := inYear - 1;
                nPM_M := 12;
        else
                nPM_Y := inYear;
                nPM_M := inMonth - 1;
        end if;
        nPY_Y := inYear - 1;
        nPY_M := inMonth;

-- Survey Data Open and Fetch(Item Type 4)
        open      csrsd;
        fetch      csrsd
        into       recsd. ISIC, recsd. Year, recsd. Month, recsd. RegistrationNo, recsd. Commo
dityCode,
                                recsd. RwMt_MEInventory, recsd. Atrbt_RwMt_MEInventor
y,

```

```

entoryValue,
recsd. RWMt_MEInventoryValue, recsd. Atrbt_RWMt_MEInv
recem. EstimationCode;

-- Survey Data Looping(Item Type 4)
while crrsd%found loop

-- Skip Data(Estimated is Nothing)
if      recsd. Atrbt_RWMt_MEInventory   = 'X'
or      recsd. Atrbt_RWMt_MEInventoryValue = 'X' then
    null;
else
    goto FetchNext;
end if;

if      recem. EstimationCode = '1' then
begin
    select *
    into   recsdm
    from   SurveyData
    where  ISIC
= recsd. ISIC
        and      Year
= nPM_Y        and      Month
= nPM_M        and      RegistrationNo = recsd. Registratio
nNo           and      ItemType
= '4'         and      CommodityCode = recsd. CommodityCo
de;           exception
              when no_data_found then
                  recsdm. Atrbt_RWMt_MEInventory := null;
                  recsdm. Atrbt_RWMt_MEInventoryValue := null;
              end;

p_CommEst(recsd. ISIC, recsd. Year, recsd. Month, recsd. RegistrationNo, '
4',
recsd. CommodityCode, '1', 'M',
recsd. RWMt_MEInventory, recsd. Atrbt_RWMt_MEInventor
recsdm. RWMt_MEInventory, recsdm. Atrbt_RWMt_MEInvent
ory, null);

p_CommEst(recsd. ISIC, recsd. Year, recsd. Month, recsd. RegistrationNo, '
4',
recsd. CommodityCode, '2', 'M',
recsd. RWMt_MEInventoryValue, recsd. Atrbt_RWMt_MEInv
entoryValue,
recsdm. RWMt_MEInventoryValue, recsdm. Atrbt_RWMt_MEI
nventoryValue, null);

elsif      recem. EstimationCode = '2' then
begin
    select *
    into   recsdm
    from   SurveyData
    where  ISIC
= recsd. ISIC
        and      Year
= nPM_Y        and      Month
= nPM_M        and      RegistrationNo = recsd. Registratio
nNo           and      ItemType
= '4'         and      CommodityCode = recsd. CommodityCo
de;           exception
              when no_data_found then
                  recsdm. Atrbt_RWMt_MEInventory := null;
                  recsdm. Atrbt_RWMt_MEInventoryValue := null;
              end;

```

```

begin
    select *
    into recge
    from GrowthRateForEstimation
    where ISIC
        = recsd. ISIC
        and ItemType
        = '4'
        and CommodityCode = recsd. CommodityCo
de;

exception
    when no_data_found then
        recge. RWMt_MEInventory := null;
        recge. RWMt_MEInventoryValue := null;
    end;

p_CommEst(recsd. ISIC, recsd. Year, recsd. Month, recsd. RegistrationNo, '
4',
recsd. CommodityCode, '1', 'G',
recsd. RWMt_MEInventory, recsd. Atrbt_RWMt_MEInventor
y,
recsdm. RWMt_MEInventory, recsdm. Atrbt_RWMt_MEInvent
ory, recge. RWMt_MEInventory);

p_CommEst(recsd. ISIC, recsd. Year, recsd. Month, recsd. RegistrationNo, '
4',
recsd. CommodityCode, '2', 'G',
recsd. RWMt_MEInventoryValue, recsd. Atrbt_RWMt_MEInv
entoryValue,
recsdm. RWMt_MEInventoryValue, recsdm. Atrbt_RWMt_MEI
nventoryValue,
recge. RWMt_MEInventoryValue);

elsif recem. EstimationCode = '3' then
begin
    select *
    into recsdy
    from SurveyData
    where ISIC
        = recsd. ISIC
        and Year
        = nPY_Y
        and Month
        = nPY_M
        and RegistrationNo = recsd. Registratio
nNo
        and ItemType
        = '4'
        and CommodityCode = recsd. CommodityCo
de;

exception
    when no_data_found then
        recsdy. Atrbt_RWMt_MEInventory := null;
        recsdy. Atrbt_RWMt_MEInventoryValue := null;
    end;

p_CommEst(recsd. ISIC, recsd. Year, recsd. Month, recsd. RegistrationNo, '
4',
recsd. CommodityCode, '1', 'Y',
recsd. RWMt_MEInventory, recsd. Atrbt_RWMt_MEInventor
y,
recsdy. RWMt_MEInventory, recsdy. Atrbt_RWMt_MEInvent
ory, null);

p_CommEst(recsd. ISIC, recsd. Year, recsd. Month, recsd. RegistrationNo, '
4',
recsd. CommodityCode, '2', 'Y',
recsd. RWMt_MEInventoryValue, recsd. Atrbt_RWMt_MEInv
entoryValue,
recsdy. RWMt_MEInventoryValue, recsdy. Atrbt_RWMt_MEI
nventoryValue, null);

end if;

-- Update Survey Data
if recsd. Atrbt_RWMt_MEInventory = 'Y'
or recsd. Atrbt_RWMt_MEInventoryValue = 'Y' then

```

```

update SurveyData
set      RwMt_MEInventory
= recsd. RwMt_MEInventory,
      RwMt_MEInventoryValue
= recsd. RwMt_MEInventoryValue,
      Atrbt_RwMt_MEInventory
= recsd. Atrbt_RwMt_MEInventory,
      Atrbt_RwMt_MEInventoryValue = recs
d. Atrbt_RwMt_MEInventoryValue
      where ISIC
      = recsd. ISIC
      and Year
      = recsd. Year
      and Month
      = recsd. Month
      and RegistrationNo = recsd. Reg
      and ItemType
      = '4'
      and CommodityCode = recsd. Com
modityCode;
end if;
-- Label
<<FetchNext>>
-- Survey Data Fetch(Item Type 4)
fetch   csrds
into    recsd. ISIC, recsd. Year, recsd. Month, recsd. RegistrationNo, recsd. Commo
dityCode,
      recsd. RwMt_MEInventory, recsd. Atrbt_RwMt_MEInventor
y,
      recsd. RwMt_MEInventoryValue, recsd. Atrbt_RwMt_MEInv
entoryValue,
      recem. EstimationCode;

end loop;
close csrds;
commit;
end;

-----
-- Automatic Estimation For Item Type 6.
-----
procedure p_AutoEst16 (
  inYear          in    number,
  inMonth         in    number) is

-- Record Area Define
recge      GrowthRateForEstimation%rowtype;
recsd      SurveyData%rowtype;
recsdm     SurveyData%rowtype;
recsdy     SurveyData%rowtype;
recem      EstablishmentMaster%rowtype;

-- Work Area
nPY_Y      number;
nPY_M      number;
nPM_Y      number;
nPM_M      number;

-- Survey Data Cursor(Item Type 6)
Cursor    csrds is
select    SurveyData. ISIC,
          SurveyData. Year,
          SurveyData. Month,
          SurveyData. RegistrationNo,
          SurveyData. CommodityCode,
          SurveyData. Capacity,
          SurveyData. Atrbt_Capacity,
          EstablishmentMaster. EstimationCode
from      SurveyData, EstablishmentMaster
where     SurveyData. ISIC = EstablishmentMaster. ISIC
and       SurveyData. RegistrationNo = EstablishmentMaste

```

```

r.RegistrationNo
                                and year = inYear
                                and Month = inMonth
                                and ItemType = '6';

Begin
-- DBMS_OUTPUT.PUT_LINE(' Start p_ActualValue ' || to_char(sysdate,'HH24:MI:SS'));
-- Get Pre Year and Month
  if inMonth = 1 then
    nPM_Y := inYear - 1;
    nPM_M := 12;
  else
    nPM_Y := inYear;
    nPM_M := inMonth - 1;
  end if;
  nPY_Y := inYear - 1;
  nPY_M := inMonth;

-- Survey Data Open and Fetch(Item Type 6)
  open csrds;
  fetch csrds
  into recsd. ISIC, recsd. Year, recsd. Month, recsd. RegistrationNo, recsd. Commo
dityCode,
                                recsd. Capacity, recsd. Atrbt_Capacity,
                                recem. EstimationCode;

-- Survey Data Looping(Item Type 6)
  while csrds%found loop

-- Skip Data(Estimated is Nothing)
  if recsd. Atrbt_Capacity != 'X' then
    goto FetchNext;
  end if;

  if recem. EstimationCode = '1' or recem. EstimationCode = '2' then
    begin
      select *
      into recsdm
      from SurveyData
      where ISIC
        = recsd. ISIC
        and Year
        = nPM_Y
        and Month
        = nPM_M
        and RegistrationNo = recsd. Registratio
nNo
        and ItemType
        = '6'
        and CommodityCode = recsd. CommodityCo
de;

      exception
        when no_data_found then
          recsdm. Atrbt_Capacity := null;
        end;

      p_CommEst(recsd. ISIC, recsd. Year, recsd. Month, recsd. RegistrationNo, '
6',
                                recsd. CommodityCode, '1', 'M',
                                recsd. Capacity, recsd. Atrbt_Capacity,
                                recsdm. Capacity, recsdm. Atrbt_Capacity, null);

    elsif recem. EstimationCode = '3' then
      begin
        select *
        into recsdy
        from SurveyData
        where ISIC
          = recsd. ISIC
          and Year
          = nPY_Y
          and Month
          = nPY_M
          and RegistrationNo = recsd. Registratio
nNo
          and ItemType

```

```

        = '6'
        and CommodityCode = recsd.CommodityCo
de;
        exception
            when no_data_found then
                recsdy.Atrbt_Capacity := null;
            end;
        p_CommEst(recsd.ISIC, recsd.Year, recsd.Month, recsd.RegistrationNo, '
6',
                recsd.CommodityCode, '1', 'Y',
                recsd.Capacity, recsd.Atrbt_Capacity,
                recsdy.Capacity, recsdy.Atrbt_Capacity, null);
    end if;

-- Update Survey Data
    if recsd.Atrbt_Capacity = 'Y' then
        update SurveyData
        set Capacity = r
        Atrbt_Capacity = recsd.Atrbt_Capac
        ity
        where ISIC = r
        ecsd.ISIC
        and Year
        = recsd.Year
        and Month
        ecsd.Month
        and RegistrationNo = recsd.RegistrationNo
        and ItemType = '
6'
        and CommodityCode = recsd.CommodityCode;
    end if;

-- Label
    <<FetchNext>>

-- Survey Data Fetch(Item Type 6)
    fetch csrsd
    into recsd.ISIC, recsd.Year, recsd.Month, recsd.RegistrationNo, rec
sd.CommodityCode,
        recsd.Capacity, recsd.Atrbt_Capacity,
        recm.EstimationCode;

    end loop;
    close csrsd;
    commit;

end;

-----
-- Batch Control File Update.
-----
procedure p_BatchCtlUpd (
    inYear          in number,
    inMonth         in number,
    inPre_Rev_Mark  in varchar2) is
Begin
    if inPre_Rev_Mark = '1' then
        update BatchControl
        set Pre_EstimatedDate = sysdate
        where Year = i
        and Month = i
    nYear
    nMonth;
    elsif inPre_Rev_Mark = '2' then
        update BatchControl
        set Rev_EstimatedDate = sysdate
        where Year = i
        and Month = i
    nYear
    nMonth;
    end if;

```


-- Automatic Estimation Main.

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```

-- =====
-- Package Name : Balance Comparison Data Making
-- Package ID   : BalComMk
-- Create Date  : 29/Oct/1999
-- Replace Date : xx/xx/xxxx
-- Author       : Nakamura
--
-- File        : @c:%jica%BalComMk;
-- Test        : BEGIN BalComMk.p_BalCom(2, '0', 1999, 3, '1'); END;
-- Test        : delete from BalanceComparison;
-- Test        : Update BalanceComparison set seq = 3 where seq =
2;
-- =====

```

```

create or replace package BalComMk is
procedure p_BalCom (

```

```

    inSeq                in      number,
    inComparisonTarget   in      varchar2,
    inYear               in      number,
    inMonth              in      number,
    inSurveyScope        in      varchar2);

```

```

end BalComMk;

```

```

/
show errors
/

```

```

create or replace package body BalComMk is

```

```

-- Insert Balance Comparison Report Table

```

```

procedure p_InsBalCom (
    n      inSeq                i
    number,
    inIndexType                in      varchar2,
    inComparisonTarget         in      varchar2,
    inYear                    in      number,
    inMonth                   in      number,
    inISIC                    in      varchar2,
    char2, inIndustryTypeShortName in      varchar2,
    inIndexPMY                in      number,
    inIndexPre                in      number,
    inIndexRev                in      number,
    inIndexBalance            in      number,
    inGR_Pre                  in      number,
    inGR_Rev                  in      number,
    inCD_Pre                  in      number,
    inCD_Rev                  in      number,
    inCD_Balance              in      number,
    inSumIndexPMY             in      number,
    inSumIndexPre             in      number,
    inSumIndexRev             in      number,
    inSumIndexBalance         in      number,
    inSumGR_Pre               in      number,
    inSumGR_Rev               in      number,
    inSumCD_Pre               in      number,
    inSumCD_Rev               in      number,
    inSumCD_Balance           in      number) is

```

```

begin
    Insert
    into      BalanceComparison (
        Seq,
        IndexType,
        ComparisonTarget,
        Year,
        Month,
        ISIC,
        IndustryTypeShortName,
        IndexPMY,
        IndexPre,

```

```

IndexRev,
IndexBalance,
GR_Pre,
GR_Rev,
CD_Pre,
CD_Rev,
CD_Balance,
SumIndexPMY,
SumIndexPre,
SumIndexRev,
SumIndexBalance,
SumGR_Pre,
SumGR_Rev,
SumCD_Pre,
SumCD_Rev,
SumCD_Balance)

Values (inSeq,

inIndexType,
inComparisonTarget,
inYear,
inMonth,
inISIC,
inIndustryTypeShortName,
inIndexPMY,
inIndexPre,
inIndexRev,
inIndexBalance,
inGR_Pre,
inGR_Rev,
inCD_Pre,
inCD_Rev,
inCD_Balance,
inSumIndexPMY,
inSumIndexPre,
inSumIndexRev,
inSumIndexBalance,
inSumGR_Pre,
inSumGR_Rev,
inSumCD_Pre,
inSumCD_Rev,
inSumCD_Balance);

end;

-----
-- Balance Comparison Report Data Get
-----

procedure p_BalCom (
    inSeq                in      number,
    inComparisonTarget    in      varchar2,
    inYear                in      number,
    inMonth                in      number,
    inSurveyScope         in      varchar2) is

-- Record Area Define
    recidp Indices%rowtype;
    recidr Indices%rowtype;
    recgrp growthRate%rowtype;
    recgrr growthRate%rowtype;
    recclp ContributionForAll1%rowtype;
    recclr ContributionForAll1%rowtype;
    recam   AggregationMaster%rowtype;
    recid   Indices%rowtype;

    recidps Indices%rowtype;
    recidrs Indices%rowtype;
    recgrps growthRate%rowtype;
    recgrrs growthRate%rowtype;
    recids  Indices%rowtype;

-- Work Area
    nPY      number;
    nPM      number;

-- Indices Table Cursor
    Cursor csrid is
        select a. ISIC,
               a. IndexPR1, a. IndexSP2, a. IndexIV3, a. IndexIR4, a. IndexCU5, a. IndexLP6,

```

```

        b. IndexPR1, b. IndexSP2, b. IndexIV3, b. IndexIR4, b. IndexCU5, b. IndexLP6,
        c. GR_PR1, c. GR_SP2, c. GR_IV3, c. GR_IR4, c. GR_C
U5, c. GR_LP6,
        d. GR_PR1, d. GR_SP2, d. GR_IV3, d. GR_IR4, d. GR_C
U5, d. GR_LP6,
        e. CD_PR1, e. CD_SP2, e. CD_IV3, e. CD_IR4, e. CD_C
U5, e. CD_LP6,
        f. CD_PR1, f. CD_SP2, f. CD_IV3, f. CD_IR4, f. CD_C
U5, f. CD_LP6,
        AggregationMaster. IndustryTypeShortName
from Indices a, Indices b, GrowthRate c, GrowthRate d,
        ContributionForAll1 e, ContributionForAll1
f, AggregationMaster
where a. AggregationRange = b. AggregationRange
and a. ISIC = b. ISIC
and a. Year = b. Year
and a. Month = b. Month
and a. SurveyScope = b. SurveyScope
and b. Pre_Rev_Mark = '2'
and a. AggregationRange = c. AggregationRange
and a. ISIC = c. ISIC
and a. Year = c. Year
and a. Month = c. Month
and a. SurveyScope = c. SurveyScope
and c. Pre_Rev_Mark = '1'
and c. ComparisonTarget = inComparisonTarget
and a. AggregationRange = d. AggregationRange
and a. ISIC = d. ISIC
and a. Year = d. Year
and a. Month = d. Month
and a. SurveyScope = d. SurveyScope
and d. Pre_Rev_Mark = '2'
and d. ComparisonTarget = inComparisonTarget
and a. ISIC = e. ISIC
and a. Year = e. Year
and a. Month = e. Month
and a. SurveyScope = e. SurveyScope
and e. Pre_Rev_Mark = '1'
and e. ComparisonTarget = inComparisonTarget
and e. Seq = inSeq
and a. ISIC = f. ISIC
and a. Year = f. Year
and a. Month = f. Month
and a. SurveyScope = f. SurveyScope
and f. Pre_Rev_Mark = '2'
and f. ComparisonTarget = inComparisonTarget
and f. Seq = inSeq
and a. AggregationRange = AggregationMaster. AggregationRange
and a. ISIC = AggregationMaster. ISIC
and a. AggregationRange = '3'
and a. Year = inYear
and a. Month = inMonth
and a. SurveyScope = inSurveyScope
and a. Pre_Rev_Mark = '1';

Begin
-- DBMS_OUTPUT.PUT_LINE(' Start p_ActualValue ' || to_char(sysdate,'HH24:MI:SS'));
-- Initial Process
if inComparisonTarget = '0' then
    if inMonth = 1 then
        nPY := inYear - 1;
        nPM := 12;
    else
        nPY := inYear;
        nPM := inMonth - 1;
    end if;
else
    nPY := inYear - 1;
    nPM := inMonth;
end if;

-- Summary Data Selecting
begin
select a. IndexPR1, a. IndexSP2, a. IndexIV3, a. IndexIR4, a. IndexCU5, a. IndexLP6,
        b. IndexPR1, b. IndexSP2, b. IndexIV3, b. IndexIR4, b. IndexCU5, b. IndexLP6,
        c. GR_PR1, c. GR_SP2, c. GR_IV3, c. GR_IR4, c. GR_C
U5, c. GR_LP6,

```

```

U5, d. GR_LP6      into      recidps. IndexPR1, recidps. IndexSP2, recidps. IndexIV3,
                                recidps. IndexIR4, recidps. IndexCU5, recidps.
IndexLP6,          recidrs. IndexPR1, recidrs. IndexSP2, recidrs. IndexIV3,
                                recidrs. IndexIR4, recidrs. IndexCU5, recidrs. IndexLP6,
V3,                recgrps. GR_PR1, recgrps. GR_SP2, recgrps. GR_I
                                recgrps. GR_IR4, recgrps. GR_CU5, recgrps. GR_L
P6,                recgrrs. GR_PR1, recgrrs. GR_SP2, recgrrs. GR_I
V3,                recgrrs. GR_IR4, recgrrs. GR_CU5, recgrrs. GR_L
P6

from Indices a, Indices b, GrowthRate c, GrowthRate d
where a. AggregationRange = b. AggregationRange
and   a. ISIC = b. ISIC
and   a. Year = b. Year
and   a. Month = b. Month
and   a. SurveyScope = b. SurveyScope
and   b. Pre_Rev_Mark = '2'
and   a. AggregationRange = c. AggregationRange
and   a. ISIC = c. ISIC
and   a. Year = c. Year
and   a. Month = c. Month
and   a. SurveyScope = c. SurveyScope
and   c. Pre_Rev_Mark = '1'
and   c. ComparisonTarget = inComparisonTarget
and   a. AggregationRange = d. AggregationRange
and   a. ISIC = d. ISIC
and   a. Year = d. Year
and   a. Month = d. Month
and   a. SurveyScope = d. SurveyScope
and   d. Pre_Rev_Mark = '2'
and   d. ComparisonTarget = inComparisonTarget
and   a. AggregationRange = '1'
and   a. Year = inYear
and   a. Month = inMonth
and   a. SurveyScope = inSurveyScope
and   a. Pre_Rev_Mark = '1';

exception
when no_data_found then
    recidps. IndexPR1 := 0;
    recidps. IndexSP2 := 0;
    recidps. IndexIV3 := 0;
    recidps. IndexIR4 := 0;
    recidps. IndexCU5 := 0;
    recidps. IndexLP6 := 0;
recidrs. IndexPR1 := 0;
recidrs. IndexSP2 := 0;
recidrs. IndexIV3 := 0;
recidrs. IndexIR4 := 0;
recidrs. IndexCU5 := 0;
recidrs. IndexLP6 := 0;
recgrps. GR_PR1 := 0;
recgrps. GR_SP2 := 0;
recgrps. GR_IV3 := 0;
recgrps. GR_IR4 := 0;
recgrps. GR_CU5 := 0;
recgrps. GR_LP6 := 0;
recgrrs. GR_PR1 := 0;
recgrrs. GR_SP2 := 0;
recgrrs. GR_IV3 := 0;
recgrrs. GR_IR4 := 0;
recgrrs. GR_CU5 := 0;
recgrrs. GR_LP6 := 0;

end;

-- Summary Pre Data Selecting
begin
    select IndexPR1,
           IndexSP2,
           IndexIV3,
           IndexIR4,
           IndexCU5,

```

```

        IndexLP6
    into      recids. IndexPR1,
             recids. IndexSP2,
             recids. IndexIV3,
             recids. IndexIR4,
             recids. IndexCU5,
             recids. IndexLP6
    from      Indices
    where     AggregationRange = '1'
             and      Year = nPY
             and      Month = nPM
             and      SurveyScope = inSurveyScope
             and      Pre_Rev_Mark = '2';

    exception
        when no_data_found then
            recids. IndexPR1 := 0;
recids. IndexSP2 := 0;
recids. IndexIV3 := 0;
recids. IndexIR4 := 0;
recids. IndexCU5 := 0;
recids. IndexLP6 := 0;
    end;

-- Indices Cursor Open Fetch
    open      csrid;
    fetch     csrid
    into      recidp. ISIC, recidp. IndexPR1, recidp. IndexSP2, recidp. IndexIV3,
             recidp. IndexIR4, recidp. IndexCU5, recidp. IndexLP6,
    recidr. IndexPR1, recidr. IndexSP2, recidr. IndexIV3,
    recidr. IndexIR4, recidr. IndexCU5, recidr. IndexLP6,
             recgrp. GR_PR1, recgrp. GR_SP2, recgrp. GR_IV3,
             recgrp. GR_IR4, recgrp. GR_CU5, recgrp. GR_LP6,
             recgrr. GR_PR1, recgrr. GR_SP2, recgrr. GR_IV3,
             recgrr. GR_IR4, recgrr. GR_CU5, recgrr. GR_LP6,
             recclp. CD_PR1, recclp. CD_SP2, recclp. CD_IV3,
             recclp. CD_IR4, recclp. CD_CU5, recclp. CD_LP6,
             recclr. CD_PR1, recclr. CD_SP2, recclr. CD_IV3,
             recclr. CD_IR4, recclr. CD_CU5, recclr. CD_LP6,
             recam. IndustryTypeShortName;

-- Indices Cursor Fetch Looping
    while csrid%found loop

-- Pre Data Selecting
    begin
        select
            IndexPR1,
            IndexSP2,
            IndexIV3,
            IndexIR4,
            IndexCU5,
            IndexLP6
        into      recid. IndexPR1,
             recid. IndexSP2,
             recid. IndexIV3,
             recid. IndexIR4,
             recid. IndexCU5,
             recid. IndexLP6
        from      Indices
        where     AggregationRange = '3'
             and      ISIC = recidp. ISIC
             and      Year = nPY
             and      Month = nPM
             and      SurveyScope = inSurveyScope
             and      Pre_Rev_Mark = '2';

    exception
        when no_data_found then
            recid. IndexPR1 := 0;
recid. IndexSP2 := 0;
recid. IndexIV3 := 0;
recid. IndexIR4 := 0;
recid. IndexCU5 := 0;
recid. IndexLP6 := 0;
    end;

```

```

-- Insert Index List Table(PR1)
p_InsBalCom(inSeq, '1', inComparisonTarget, inYear, inMonth, substr(recidp. ISI
C, 1, 4),
recam. IndustryTypeShortName, recid. IndexPR1, recidp. IndexPR1, recidr.
IndexPR1,
recidr. IndexPR1 - recidp. IndexPR1, recgrp. GR_PR1, recgrr. GR_PR1,
recclp. CD_PR1, recclr. CD_PR1, recclr. CD_PR1 - recclp. CD_PR1,
recids. IndexPR1, recidps. IndexPR1, recidrs. IndexPR1, recidrs. IndexPR1
- recidps. IndexPR1,
recgrps. GR_PR1, recgrrs. GR_PR1,
recidps. IndexPR1 - recids. IndexPR1, recidrs. IndexPR1 - recids. Index
PR1,
(recidrs. IndexPR1 - recids. IndexPR1) - (recidps. IndexPR1 - recids.
IndexPR1));

-- Insert Index List Table(SP2)
p_InsBalCom(inSeq, '2', inComparisonTarget, inYear, inMonth, substr(recidp. ISI
C, 1, 4),
recam. IndustryTypeShortName, recid. IndexSP2, recidp. IndexSP2, recidr.
IndexSP2,
recidr. IndexSP2 - recidp. IndexSP2, recgrp. GR_SP2, recgrr. GR_SP2,
recclp. CD_SP2, recclr. CD_SP2, recclr. CD_SP2 - recclp. CD_SP2,
recids. IndexSP2, recidps. IndexSP2, recidrs. IndexSP2, recidrs. IndexSP2
- recidps. IndexSP2,
recgrps. GR_SP2, recgrrs. GR_SP2,
recidps. IndexSP2 - recids. IndexSP2, recidrs. IndexSP2 - recids. Index
SP2,
(recidrs. IndexSP2 - recids. IndexSP2) - (recidps. IndexSP2 - recids.
IndexSP2));

-- Insert Index List Table(IV3)
p_InsBalCom(inSeq, '3', inComparisonTarget, inYear, inMonth, substr(recidp. ISI
C, 1, 4),
recam. IndustryTypeShortName, recid. IndexIV3, recidp. IndexIV3, recidr.
IndexIV3,
recidr. IndexIV3 - recidp. IndexIV3, recgrp. GR_IV3, recgrr. GR_IV3,
recclp. CD_IV3, recclr. CD_IV3, recclr. CD_IV3 - recclp. CD_IV3,
recids. IndexIV3, recidps. IndexIV3, recidrs. IndexIV3, recidrs. IndexIV3
- recidps. IndexIV3,
recgrps. GR_IV3, recgrrs. GR_IV3,
recidps. IndexIV3 - recids. IndexIV3, recidrs. IndexIV3 - recids. Index
IV3,
(recidrs. IndexIV3 - recids. IndexIV3) - (recidps. IndexIV3 - recids.
IndexIV3));

-- Insert Index List Table(IR4)
p_InsBalCom(inSeq, '4', inComparisonTarget, inYear, inMonth, substr(recidp. ISI
C, 1, 4),
recam. IndustryTypeShortName, recid. IndexIR4, recidp. IndexIR4, recidr.
IndexIR4,
recidr. IndexIR4 - recidp. IndexIR4, recgrp. GR_IR4, recgrr. GR_IR4,
recclp. CD_IR4, recclr. CD_IR4, recclr. CD_IR4 - recclp. CD_IR4,
recids. IndexIR4, recidps. IndexIR4, recidrs. IndexIR4, recidrs. IndexIR4
- recidps. IndexIR4,
recgrps. GR_IR4, recgrrs. GR_IR4,
recidps. IndexIR4 - recids. IndexIR4, recidrs. IndexIR4 - recids. Index
IR4,
(recidrs. IndexIR4 - recids. IndexIR4) - (recidps. IndexIR4 - recids.
IndexIR4));

-- Insert Index List Table(CU5)
p_InsBalCom(inSeq, '5', inComparisonTarget, inYear, inMonth, substr(recidp. ISI
C, 1, 4),
recam. IndustryTypeShortName, recid. IndexCU5, recidp. IndexCU5, recidr.
IndexCU5,
recidr. IndexCU5 - recidp. IndexCU5, recgrp. GR_CU5, recgrr. GR_CU5,
recclp. CD_CU5, recclr. CD_CU5, recclr. CD_CU5 - recclp. CD_CU5,
recids. IndexCU5, recidps. IndexCU5, recidrs. IndexCU5, recidrs. IndexCU5
- recidps. IndexCU5,
recgrps. GR_CU5, recgrrs. GR_CU5,
recidps. IndexCU5 - recids. IndexCU5, recidrs. IndexCU5 - recids. Index
CU5,
(recidrs. IndexCU5 - recids. IndexCU5) - (recidps. IndexCU5 - recids.
IndexCU5));

-- Insert Index List Table(LP6)

```

```

C, 1, 4),
IndexLP6,
- recidps. IndexLP6,
LP6,
IndexLP6));

-- Fetch Indices Table
  fetch      csrid
  into      recidp. ISIC, recidp. IndexPR1, recidp. IndexSP2, recidp. IndexIV3,
            recidp. IndexIR4, recidp. IndexCU5, recidp. IndexLP6,
            recidr. IndexPR1, recidr. IndexSP2, recidr. IndexIV3,
            recidr. IndexIR4, recidr. IndexCU5, recidr. IndexLP6,
            recgrp. GR_PR1, recgrp. GR_SP2, recgrp. GR_IV3,
            recgrp. GR_IR4, recgrp. GR_CU5, recgrp. GR_LP6,
            recgrr. GR_PR1, recgrr. GR_SP2, recgrr. GR_IV3,
            recgrr. GR_IR4, recgrr. GR_CU5, recgrr. GR_LP6,
            recclp. CD_PR1, recclp. CD_SP2, recclp. CD_IV3,
            recclp. CD_IR4, recclp. CD_CU5, recclp. CD_LP6,
            recclr. CD_PR1, recclr. CD_SP2, recclr. CD_IV3,
            recclr. CD_IR4, recclr. CD_CU5, recclr. CD_LP6,
            recam. IndustryTypeShortName;

      end loop;

    close csrid;

end;

end BalComMk;
/
show errors
/
--commit;

```



```

/*
* Package Name : CalcIndex
* Created Date : 30/NOV/99
* Update Date : 23/FEB/00 Add SurveyScope in WeightMaster
* Update Date : 24/FEB/00 Add Deflator
* Update Date : 28/FEB/00 Add SeasonalAdjustedIndices
* Update Date : 16/MAR/00 Modify bug found in expand survey
* By K. Shibamoto@JICA SYUDY TEAM
* NOTE : Calculate Index.
* TEST : (1)exec Weight.CreateWeightView; --Create aggregated weight
        (2)exec CalcIndex.Main(1999,1,'2'); --Calculate index
* Make : @C:%shiba%Index-PL-SQL%calcindex
*/

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CREATE OR REPLACE PACKAGE CalcIndex IS

```

/* -----*
* O. MAIN                                     *
* -----*/
/* MAIN
|| is called first of all before calculating indices.
*/
PROCEDURE MAIN (
    pYear          IN NUMBER, -- Year
    pMonth         IN NUMBER, -- Month
    pPreRev        IN VARCHAR2 -- Pre_RevMark(1:Preliminary 2:Revised)
);
/* -----*
* 1. Calculation of Production Index          *
* -----*/
/* CalcPR_Main
|| Prepare for Index calculation
|| for ALL ISIC(6digit) + CommodityCode(Item1)
|| (AggregateRange 5)
*/
FUNCTION CalcPR_Main (
    pYear          IN NUMBER, -- Year
    pMonth         IN NUMBER, -- Month
    pScope         IN VARCHAR2, -- Target Scope For Calculation
    pPreRev        IN VARCHAR2, -- Pre_RevMark(1:Preliminary 2:Revised)
    pBaseY         IN NUMBER, -- BaseYear
    pBaseM         IN NUMBER, -- BaseMonth
) return NUMBER;
/* CalcPR5
|| Calculate Production Index
|| for each ISIC(6digit) + CommodityCode(Item1)
|| (AggregateRange 5)
*/
FUNCTION CalcPR5
    pISIC          IN VARCHAR2, -- ISIC
    pCommodity     IN VARCHAR2, -- CommodityCode
    pYear          IN NUMBER, -- Year
    pMonth         IN NUMBER, -- Month
    pScope         IN VARCHAR2, -- Target Scope For Calculation
    pPreRev        IN VARCHAR2, -- Pre_RevMark(1:Preliminary 2:Revised)
    pBaseY         IN NUMBER, -- BaseYear
    pBaseM         IN NUMBER, -- BaseMonth
) return NUMBER;
/* -----*
* 2. Calculation of Shipment Index           *
* -----*/
/* CalcSP_Main
|| Prepare for Index calculation
|| for ALL ISIC(6digit) + CommodityCode(Item1)
|| (AggregateRange 5)
*/
FUNCTION CalcSP_Main (
    pYear          IN NUMBER, -- Year
    pMonth         IN NUMBER, -- Month
    pScope         IN VARCHAR2, -- Target Scope For Calculation
    pPreRev        IN VARCHAR2, -- Pre_RevMark(1:Preliminary 2:Revised)
    pBaseY         IN NUMBER, -- BaseYear
    pBaseM         IN NUMBER, -- BaseMonth
) return NUMBER;
/* CalcSP5
|| Calculate Shipment Index
|| for each ISIC(6digit) + CommodityCode(Item1)

```

```

|| (AggregateRange 5)
*/
FUNCTION CalcSP5
    pISIC          IN VARCHAR2, -- ISIC
    pCommodity     IN VARCHAR2, -- CommodityCode
    pYear          IN NUMBER,   -- Year
    pMonth         IN NUMBER,   -- Month
    pScope         IN VARCHAR2, -- Target Scope For Calculation
    pPreRev        IN VARCHAR2, -- Pre_RevMark(1:Preliminary 2:Revised)
    pBaseY         IN NUMBER,   -- BaseYear
    pBaseM         IN NUMBER    -- BaseMonth
) return NUMBER;

/* -----*
* 3. Calculation of Inventory Index                *
* -----*/
/* CalcIV_Main
|| Prepare for Index calculation
|| for ALL ISIC(6digit) + CommodityCode(Item1)
|| (AggregateRange 5)
*/
FUNCTION CalcIV_Main (
    pYear          IN NUMBER,   -- Year
    pMonth         IN NUMBER,   -- Month
    pScope         IN VARCHAR2, -- Target Scope For Calculation
    pPreRev        IN VARCHAR2, -- Pre_RevMark(1:Preliminary 2:Revised)
    pBaseY         IN NUMBER,   -- BaseYear
    pBaseM         IN NUMBER    -- BaseMonth
) return NUMBER;
/* CalcIV5
|| Calculate Inventory Index
|| for each ISIC(6digit) + CommodityCode(Item1)
|| (AggregateRange 5)
*/
FUNCTION CalcIV5
    pISIC          IN VARCHAR2, -- ISIC
    pCommodity     IN VARCHAR2, -- CommodityCode
    pYear          IN NUMBER,   -- Year
    pMonth         IN NUMBER,   -- Month
    pScope         IN VARCHAR2, -- Target Scope For Calculation
    pPreRev        IN VARCHAR2, -- Pre_RevMark(1:Preliminary 2:Revised)
    pBaseY         IN NUMBER,   -- BaseYear
    pBaseM         IN NUMBER    -- BaseMonth
) return NUMBER;

/* -----*
* 4. Calculation of Inventory Ratio Index          *
* -----*/
FUNCTION CalcIR_Main (
    pYear          IN NUMBER,   -- Year
    pMonth         IN NUMBER,   -- Month
    pScope         IN VARCHAR2, -- Target Scope For Calculation
    pPreRev        IN VARCHAR2, -- Pre_RevMark(1:Preliminary 2:Revised)
    pBaseY         IN NUMBER,   -- BaseYear
    pBaseM         IN NUMBER    -- BaseMonth
) return NUMBER;
/* CalcIR5
|| Calculate Inventory Ratio Index
|| for each ISIC(6digit) + CommodityCode(Item1)
|| (AggregateRange 5)
*/
FUNCTION CalcIR5
    pISIC          IN VARCHAR2, -- ISIC
    pCommodity     IN VARCHAR2, -- CommodityCode
    pYear          IN NUMBER,   -- Year
    pMonth         IN NUMBER,   -- Month
    pScope         IN VARCHAR2, -- Target Scope For Calculation
    pPreRev        IN VARCHAR2, -- Pre_RevMark(1:Preliminary 2:Revised)
    pBaseY         IN NUMBER,   -- BaseYear
    pBaseM         IN NUMBER    -- BaseMonth
) return NUMBER;

/* -----*
* 5. Calculation of Capacity Utilization Index    *
* -----*/
FUNCTION CalcCU_Main (
    pYear          IN NUMBER,   -- Year
    pMonth         IN NUMBER,   -- Month
    pScope         IN VARCHAR2, -- Target Scope For Calculation
    pPreRev        IN VARCHAR2, -- Pre_RevMark(1:Preliminary 2:Revised)

```

```

        pBaseY          IN  NUMBER,  -- BaseYear
        pBaseM          IN  NUMBER   -- BaseMonth
    ) return NUMBER;
    /* CalcIR5
    || Calculate Capacity Utilization Index
    || for each ISIC(6digit) + CommodityCode(Item1)
    || (AggregateRange 5)
    */
    FUNCTION CalcCU5
        pISIC            IN  VARCHAR2, -- ISIC
        pCommodity       IN  VARCHAR2, -- CommodityCode
        pYear            IN  NUMBER,   -- Year
        pMonth           IN  NUMBER,   -- Month
        pScope           IN  VARCHAR2, -- Target Scope For Calculation
        pPreRev          IN  VARCHAR2, -- Pre_RevMark(1:Preliminary 2:Revised)
        pBaseY           IN  NUMBER,   -- BaseYear
        pBaseM           IN  NUMBER    -- BaseMonth
    ) return NUMBER;
/* -----*
* 6. Calculation of Labor Productivity Index *
* -----*/
    FUNCTION CalcLP_Main (
        pYear            IN  NUMBER,   -- Year
        pMonth           IN  NUMBER,   -- Month
        pScope           IN  VARCHAR2, -- Target Scope For Calculation
        pPreRev          IN  VARCHAR2, -- Pre_RevMark(1:Preliminary 2:Revised)
        pBaseY           IN  NUMBER,   -- BaseYear
        pBaseM           IN  NUMBER    -- BaseMonth
    ) return NUMBER;
    /* CalcLP4
    || Calculate Labor Productivity Index
    || for each ISIC(6digit)
    || (AggregateRange 4)
    */
    FUNCTION CalcLP4
        pISIC            IN  VARCHAR2, -- ISIC
        --pCommodity      IN  VARCHAR2, -- CommodityCode
        pYear            IN  NUMBER,   -- Year
        pMonth           IN  NUMBER,   -- Month
        pScope           IN  VARCHAR2, -- Target Scope For Calculation
        pPreRev          IN  VARCHAR2, -- Pre_RevMark(1:Preliminary 2:Revised)
        pBaseY           IN  NUMBER,   -- BaseYear
        pBaseM           IN  NUMBER    -- BaseMonth
    ) return NUMBER;
/* -----*
* 7. Common routine for aggregation *
* -----*/
    /* AggregateIndex
    || is called for calculate every Index.
    || Because the aggregation methods for each index are the same .
    || (AggregateRange 5->4->3->2->1)
    */
    FUNCTION AggregateIndex (
        pRange           IN  NUMBER,   -- Aggregation Range
        pYear            IN  NUMBER,   -- Year
        pMonth           IN  NUMBER,   -- Month
        pScope           IN  VARCHAR2, -- Target Scope For Calculation
        pPreRev          IN  VARCHAR2  -- Pre_RevMark(1:Preliminary 2:Revised)
    ) return NUMBER;
/* -----*
* 8. Common routine for getting BasePeriod *
* -----*/
    /* GetBasePeriod
    || Get base year and month for each surveyscope.
    */
    Procedure GetBasePeriod (
        pYear            IN  NUMBER,   -- Year
        pMonth           IN  NUMBER,   -- Month
        pScope           IN  VARCHAR2, -- Target Scope For Calculation
        oYear            OUT NUMBER,   -- Year
        oMonth           OUT NUMBER    -- Month
    );
    -----
END;
/
show errors

```

CREATE OR REPLACE PACKAGE BODY CalcIndex IS

```

/* MAIN
|| is called first of all before calculating indices.
*/
PROCEDURE MAIN (
  pYear IN NUMBER, -- Year
  pMonth IN NUMBER, -- Month
  pPreRev IN VARCHAR2 -- Pre_RevMark(1:Preliminary 2:Revised)
)
IS
  Ret NUMBER;
  MaxScope NUMBER;
  sBase varchar2(6);
  nBaseY number;
  nBaseM number;
BEGIN
  -- Get the maximum number of surveyscope
  select to_number(max(SurveyScope)) into MaxScope
  from SurveyScopeMaster;

  -- Crate WeightView
  -- Weight. CreateWeightView;

  -- Clear work table;
  DELETE FROM Index_Wk;
  COMMIT WORK;

  -- Create skeleton records for every index in work table.
  FOR i IN 1..MaxScope LOOP
    /* Aggregation Range 5 */
    insert into Index_Wk
    select '5', -- AggregationRange
           ISIC, -- ISIC(6 digit)
           ItemType, -- ItemType
           CommodityCode, -- IndexCommodity
           pYear, -- Year
           pMonth, -- Month
           to_char(i), -- SurveyScope
           pPreRev, -- Pre_Rev_Mark
           NULL, NULL, NULL, NULL, -- Index1..8
           NULL, NULL, NULL, NULL
    from CommodityMaster
    where ItemType IN ('1','6'); -- Caution!!
    commit work; -- Only "Capacity Utilization Index" is based on
ItemType 6 .

    /* Aggregation Range 4 */
    insert into Index_Wk
    select '4', -- AggregationRange
           ISIC, -- ISIC(6 digit)
           'X', -- ItemType
           'XXX', -- IndexCommodity
           pYear, -- Year
           pMonth, -- Month
           to_char(i), -- SurveyScope
           pPreRev, -- Pre_Rev_Mark
           NULL, NULL, NULL, NULL, -- Index1..8
           NULL, NULL, NULL, NULL
    from CommodityMaster
    where ItemType = '5' -- Business condition
    and CommodityCode = '010';
    commit work;

    /* Aggregation Range 3 */
    insert into Index_Wk
    select distinct
           '3', -- AggregationRange
           substr(ISIC, 1, 4) || 'XX', -- ISIC
           'X', -- ItemType
           'XXX', -- IndexCommodity
           pYear, -- Year
           pMonth, -- Month
           to_char(i), -- SurveyScope
           pPreRev, -- Pre_Rev_Mark
           NULL, NULL, NULL, NULL, -- Index1..8

```

```

        NULL, NULL, NULL, NULL
    from CommodityMaster
    where ItemType = '5' -- Business condition
    and CommodityCode = '010'; -- is the same with each Questionnaire
    commit work;

/* Aggregation Range 2 */
insert into Index_Wk
select distinct
    '2', -- AggregationRange
    substr(ISIC, 1, 2) || 'XXXX', -- ISIC
    'X', -- ItemType
    'XXX', -- IndexCommodity
    pYear, -- Year
    pMonth, -- Month
    to_char(i), -- SurveyScope
    pPreRev, -- Pre_Rev_Mark
    NULL, NULL, NULL, NULL, -- Index1..8
    NULL, NULL, NULL, NULL
from CommodityMaster
where ItemType = '5' -- Business condition
and CommodityCode = '010';
commit work;

/* Aggregation Range 1 */
insert into Index_Wk
values(
    '1', -- AggregationRange
    'XXXXXX', -- ISIC
    'X', -- ItemType
    'XXX', -- IndexCommodity
    pYear, -- Year
    pMonth, -- Month
    to_char(i), -- SurveyScope
    pPreRev, -- Pre_Rev_Mark
    NULL, NULL, NULL, NULL, -- Index1..8
    NULL, NULL, NULL, NULL
);
commit work;
END LOOP;

/* Create Index of PR, SP, IV, IR, CU
 * for each SurveyScope from actual figures
 * (Aggregation Range 5)
 */
FOR i IN 1..MaxScope LOOP
    GetBasePeriod(pYear, pMonth, i, nBaseY, nBaseM);
    Ret := CalcPR_Main(pYear, pMonth, TO_CHAR(i), pPreRev, nBaseY, nBaseM);
    COMMIT WORK;
    Ret := CalcSP_Main(pYear, pMonth, TO_CHAR(i), pPreRev, nBaseY, nBaseM);
    COMMIT WORK;
    Ret := CalcIV_Main(pYear, pMonth, TO_CHAR(i), pPreRev, nBaseY, nBaseM);
    COMMIT WORK;
    Ret := CalcIR_Main(pYear, pMonth, TO_CHAR(i), pPreRev, nBaseY, nBaseM);
    COMMIT WORK;
    Ret := CalcCU_Main(pYear, pMonth, TO_CHAR(i), pPreRev, nBaseY, nBaseM);
    COMMIT WORK;
END LOOP;

/* Aggregate Index (Range 5 -> 4) */
FOR i IN 1..MaxScope LOOP -- "i" is SurveyScope.
    Ret := AggregateIndex(4, pYear, pMonth, TO_CHAR(i), pPreRev);
    commit work;
END LOOP;

/* Create Index of LP
 * for each SurveyScope from actual figures
 * (Aggregation Range 4)
 */
FOR i IN 1..MaxScope LOOP
    GetBasePeriod(pYear, pMonth, i, nBaseY, nBaseM);
    Ret := CalcLP_Main(pYear, pMonth, TO_CHAR(i), pPreRev, nBaseY, nBaseM);
    COMMIT WORK;
END LOOP;

/* Aggregate Index (Range 4 -> 3 -> 2 -> 1) */
FOR j IN 1..3 LOOP -- "j" is Aggregation Range.

```

```

FOR i IN 1..MaxScope LOOP -- "i" is SurveyScope.
    Ret := AggregateIndex(4-j, pYear, pMonth, TO_CHAR(i), pPreRev);
    commit work;
END LOOP;
END LOOP;

```

```

/* delete extra indices */
delete from Index_wk
where Year = pYear
and Month = pMonth
and Pre_Rev_Mark = pPreRev
and indexpr1 is null
and indexsp2 is null
and indexiv3 is null
and indexir4 is null
and indexcu5 is null
and indexlp6 is null ;
commit work;

```

```

/* Export data to the genuine table */
delete from Indices
where Year = pYear
and Month = pMonth
and Pre_Rev_Mark = pPreRev;
commit work;

```

```

delete from SeasonalAdjustedIndices
where Year = pYear
and Month = pMonth
and Pre_Rev_Mark = pPreRev;
commit work;

```

```

/* Raw Indices */
insert into Indices
select
    AggregationRange,
    ISIC,
    ItemType,
    IndexCommodityCode,
    Year,
    Month,
    SurveyScope,
    Pre_Rev_Mark,
    NVL(IndexPR1 * 100, NULL),
    NVL(IndexSP2 * 100, NULL),
    NVL(IndexIV3 * 100, NULL),
    NVL(IndexIR4 * 100, NULL),
    NVL(IndexCU5 * 100, NULL),
    NVL(IndexLP6 * 100, NULL),
    NVL(IndexLI7 * 100, NULL),
    NVL(IndexRI8 * 100, NULL),
    SYSDATE
from Index_Wk;
COMMIT WORK;

```

```

/* seasonal adjusted indices */
insert into SeasonalAdjustedIndices
select
    W. AggregationRange,
    W. ISIC,
    W. ItemType,
    W. IndexCommodityCode,
    W. Year,
    W. Month,
    W. SurveyScope,
    W. Pre_Rev_Mark,
    NVL(W. IndexPR1 * 100, NULL) * SA. IndexPR1,
    NVL(W. IndexSP2 * 100, NULL) * SA. IndexSP2,
    NVL(W. IndexIV3 * 100, NULL) * SA. IndexIV3,
    NVL(W. IndexIR4 * 100, NULL) * SA. IndexIR4,
    NVL(W. IndexCU5 * 100, NULL) * SA. IndexCU5,
    NVL(W. IndexLP6 * 100, NULL) * SA. IndexLP6,
    NVL(W. IndexLI7 * 100, NULL) * SA. IndexLI7,
    NVL(W. IndexRI8 * 100, NULL) * SA. IndexRI8,
    SYSDATE

```

```

from Index_Wk W, SeasonalAdjustmentMaster SA
where W.AggregationRange = SA.AggregationRange
and W.ISIC = SA.ISIC
and W.ItemType = SA.ItemType
and W.IndexCommodityCode = SA.IndexCommodityCode
and W.Year = SA.Year
and W.Month = SA.Month
and W.SurveyScope = SA.SurveyScope
and SA.Version = '1' ;
COMMIT WORK;

EXCEPTION
    WHEN OTHERS THEN
        --error_code := SQLCODE;
        --error_msg := SQLERRM;
        DBMS_OUTPUT.PUT_LINE(' SQL ERROR --> ' || SQLERRM );

END;

/* ----- */
* 1. Calculation of Production Index *
/* ----- */
FUNCTION CalcPR_Main (
    pYear          IN NUMBER, -- Year
    pMonth         IN NUMBER, -- Month
    pScope         IN VARCHAR2, -- Target Scope For Calculation
    pPreRev        IN VARCHAR2, -- Pre_RevMark(1:Preliminary 2:Revised)
    pBaseY         IN NUMBER, -- BaseYear
    pBaseM         IN NUMBER, -- BaseMonth
)
return number /* 1:Success , 0:Error */
IS
    -- This cursor gets "CommodityCode" for which
    -- IndexPR should be calculated .
    CURSOR Csr IS
        SELECT /*+ all_rows*/ ISIC , CommodityCode
        FROM CommodityMaster
        WHERE ItemType = '1'
        AND IndexScopePR1 = '1' -- should be calculated for IndexPR
        ORDER BY ISIC , CommodityCode;
    Rec Csr%ROWTYPE;
    Ret NUMBER; -- Get return value of Func CalcPR5

BEGIN
    /* Calculate Index for Aggregation range 5 */
    OPEN Csr;
    LOOP
        FETCH Csr INTO Rec;
        EXIT WHEN Csr%NOTFOUND;
        --DBMS_OUTPUT.PUT_LINE('--- ISIC = ' || Rec.ISIC || ' , CommodityCode = ' || Rec.Commod
ityCode);
        Ret := CalcPR5(Rec.ISIC, Rec.CommodityCode, pYear, pMonth, pScope, pPreRev, pBaseY, p
BaseM);
    END LOOP;
    CLOSE Csr;

    RETURN 1;

EXCEPTION
    WHEN OTHERS THEN
        RETURN 0;

END;

FUNCTION CalcPR5(
    pISIC          IN VARCHAR2, -- ISIC
    pCommodity     IN VARCHAR2, -- CommodityCode
    pYear          IN NUMBER, -- Year
    pMonth         IN NUMBER, -- Month
    pScope         IN VARCHAR2, -- Target Scope For Calculation
    pPreRev        IN VARCHAR2, -- Pre_RevMark(1:Preliminary 2:Revised)
    pBaseY         IN NUMBER, -- BaseYear
    pBaseM         IN NUMBER, -- BaseMonth
)
return number /* 0 : Process is succeeded , -1 : Process is not succeeded */
IS
    -- Definition of Variables --

```

```

nErr      NUMBER := 0; -- count missing values
nThisPR   NUMBER;
nBasePR   NUMBER;
nIndexPR  NUMBER;
nLink     NUMBER;
nDefl     NUMBER;
BEGIN
/* Get Base Value */
select /*+ all_rows*/          --- This hint is incredibly
                                --- effective on response !!
        sum(BP. ProductionQTY)
into nBasePR
from BasePeriodFile BP, EstablishmentMaster EM
where BP. ISIC = pISIC
and BP. Year = pBaseY
and BP. Month = pBaseM
and BP. SurveyScope = pScope      ---- Modify 16/MAR
and BP. Version = '1' -- Monthly Process
and BP. ItemType = '1' -- Fixed Value
and BP. CommodityCode = pCommodity
and BP. ISIC = EM. ISIC
and BP. RegistrationNo = EM. RegistrationNo
and EM. SurveyScope <= pScope
and EM. ContinuousRespondent = '1';

/* Get This Month Value */
select /*+ all_rows*/
        sum(PR. ProductionQTY)
into nThisPR --, nThisSP, nThisIV
from PastRecord PR, EstablishmentMaster EM
where PR. ISIC = pISIC
and PR. Year = pYear
and PR. Month = pMonth
and PR. Pre_Rev_Mark = pPreRev -- Monthly Process
and PR. ItemType = '1' -- Fixed Value
and PR. CommodityCode = pCommodity
and PR. ISIC = EM. ISIC
and PR. RegistrationNo = EM. RegistrationNo
and EM. SurveyScope <= pScope
and EM. ContinuousRespondent = '1' ;

/* Get Link Coefficient */
select ProductionQTY
into nLink
from LinkMaster ---0221
where ISIC = pISIC
and ItemType = '1'
and CommodityCode = pCommodity
and SurveyScope = pScope
and Year = pYear
and Month = pMonth
and Version = '1';

/* Get Deflator Coefficient */
select ProductionQTY
into nDefl
from DeflatorMaster ---0221
where ISIC = pISIC
and ItemType = '1'
and CommodityCode = pCommodity
and SurveyScope = pScope
and Year = pYear
and Month = pMonth
and Version = '1';

/* Production */
IF (nBasePR = 0) THEN
    nIndexPR := NULL;
ELSE
    nIndexPR := (nThisPR * nLink / nDefl) / nBasePR;
END IF;

/* Set Production Index for AggregateRange5 */
update Index_Wk
set IndexPR1 = nIndexPR
where AggregationRange = '5'
and ISIC = pISIC
and ItemType = '1'

```



```

        and IndexCommodityCode = pCommodity
        and Year = pYear
        and Month = pMonth
        and SurveyScope = pScope
        and Pre_Rev_Mark = pPreRev ;

RETURN nErr;
EXCEPTION
    WHEN OTHERS THEN
        RETURN -1;
END;

/* -----*
* 2. Caluculation of Shipment Index *
* -----*/
FUNCTION CalcSP_Main (
    pYear          IN NUMBER, -- Year
    pMonth         IN NUMBER, -- Month
    pScope         IN VARCHAR2, -- Target Scope For Calculation
    pPreRev        IN VARCHAR2, -- Pre_RevMark(1:Preliminary 2:Revised)
    pBaseY         IN NUMBER, -- BaseYear
    pBaseM         IN NUMBER, -- BaseMonth
)
return number /* 1:Success , 0:Error */
IS
    -- This cursor gets "CommodityCode" for which
    -- IndexSP should be calculated .
    CURSOR Csr IS
        SELECT /*+ all_rows*/ ISIC , CommodityCode
        FROM CommodityMaster
        WHERE ItemType = '1'
        AND IndexScopeSP2 = '1' -- should be calculated for IndexSP
        ORDER BY ISIC , CommodityCode;
    Rec Csr%ROWTYPE;
    Ret NUMBER; -- Get return value of Func CalcPR5

BEGIN
    /* Calculate Index for Aggregation range 5 */
    OPEN Csr;
    LOOP
        FETCH Csr INTO Rec;
        EXIT WHEN Csr%NOTFOUND;
        Ret := CalcSP5(Rec. ISIC, Rec. CommodityCode, pYear, pMonth, pScope, pPreRev, pBaseY, p
BaseM);
    END LOOP;
    CLOSE Csr;
    RETURN 1;

    EXCEPTION
        WHEN OTHERS THEN
            --error_code := SQLCODE;
            --error_msg := SQLERRM;
            --DBMS_OUTPUT.PUT_LINE(' SQL ERROR --> '|| SQLERRM );
            RETURN 0;
END;

FUNCTION CalcSP5(
    pISIC          IN VARCHAR2, -- ISIC
    pCommodity     IN VARCHAR2, -- CommodityCode
    pYear          IN NUMBER, -- Year
    pMonth         IN NUMBER, -- Month
    pScope         IN VARCHAR2, -- Target Scope For Calculation
    pPreRev        IN VARCHAR2, -- Pre_RevMark(1:Preliminary 2:Revised)
    pBaseY         IN NUMBER, -- BaseYear
    pBaseM         IN NUMBER, -- BaseMonth
)
return number /* 0 : Process is succeeded , -1 : Process is not succeeded */
IS
    -- Definition of Variables --
    nErr          NUMBER := 0; -- count missing values

    nThisSP       NUMBER;
    nBaseSP       NUMBER;
    nIndexSP      NUMBER;
    nLink         NUMBER;
    nDefl         NUMBER;

BEGIN

```

```

/* Get Base Value */
select /*+ all_rows*/
    sum(BP.DomesticSales + BP.Export)
into nBaseSP
from BasePeriodFile BP, EstablishmentMaster EM
where BP.ISIC = pISIC
and BP.Year = pBaseY
and BP.Month = pBaseM
and BP.SurveyScope = pScope ---- Modify 16/MAR
and BP.Version = '1' -- Monthly Process
and BP.ItemType = '1' -- Fixed Value
and BP.CommodityCode = pCommodity
and BP.ISIC = EM.ISIC
and BP.RegistrationNo = EM.RegistrationNo
and EM.SurveyScope <= pScope
and EM.ContinuousRespondent = '1' ;

/* Get This Month Value */
select /*+ all_rows*/
    sum(PR.DomesticSales + PR.Export)
into nThisSP
from PastRecord PR, EstablishmentMaster EM
where PR.ISIC = pISIC
and PR.Year = pYear
and PR.Month = pMonth
and PR.Pre_Rev_Mark = pPreRev -- Monthly Process
and PR.ItemType = '1' -- Fixed Value
and PR.CommodityCode = pCommodity
and PR.ISIC = EM.ISIC
and PR.RegistrationNo = EM.RegistrationNo
and EM.SurveyScope <= pScope
and EM.ContinuousRespondent = '1' ;

/* Get Link Coefficient */
select ShipmentQTY
into nLink
from LinkMaster ---0221
where ISIC = pISIC
and ItemType = '1'
and CommodityCode = pCommodity
and SurveyScope = pScope
and Year = pYear
and Month = pMonth
and Version = '1';

/* Get Deflator Coefficient */
select ShipmentQTY
into nDefl
from DeflatorMaster ---0221
where ISIC = pISIC
and ItemType = '1'
and CommodityCode = pCommodity
and SurveyScope = pScope
and Year = pYear
and Month = pMonth
and Version = '1';

/* Shipment */
IF (nBaseSP = 0) THEN
    nIndexSP := NULL;
ELSE
    nIndexSP := (nThisSP * nLink / nDefl) / nBaseSP;
END IF;

/* Set Production Index for AggregateRange5 */
update Index_Wk
set IndexSP2 = nIndexSP
where AggregationRange = '5'
and ISIC = pISIC
and ItemType = '1'
and IndexCommodityCode = pCommodity
and Year = pYear
and Month = pMonth
and SurveyScope = pScope
and Pre_Rev_Mark = pPreRev;

RETURN nErr;

```

```

        EXCEPTION
        WHEN OTHERS THEN
            RETURN -1;
    END;

/* -----*
* 3. Caluculation of Inventory Index *
* -----*/
FUNCTION CalcIV_Main (
    pYear          IN NUMBER,    -- Year
    pMonth         IN NUMBER,    -- Month
    pScope         IN VARCHAR2,  -- Target Scope For Calculation
    pPreRev        IN VARCHAR2,  -- Pre_RevMark(1:Preliminary 2:Revised)
    pBaseY         IN NUMBER,    -- BaseYear
    pBaseM         IN NUMBER,    -- BaseMonth
)
return number /* 1:Success , 0>Error */
IS
    -- This cursor gets "CommodityCode" for which
    -- IndexIV should be calculated .
    CURSOR Csr IS
        SELECT /*+ all_rows*/ ISIC , CommodityCode
        FROM CommodityMaster
        WHERE ItemType = '1'
          AND IndexScopeIV3 = '1'    -- should be calculated for IndexIV
        ORDER BY ISIC , CommodityCode;
    Rec Csr%ROWTYPE;
    Ret NUMBER; -- Get return value of Func CalcIV5

BEGIN
    /* Calculate Index for Aggregation range 5 */
    OPEN Csr;
    LOOP
        FETCH Csr INTO Rec;
        EXIT WHEN Csr%NOTFOUND;
        Ret := CalcIV5(Rec. ISIC, Rec. CommodityCode, pYear, pMonth, pScope, pPreRev, pBaseY, p
BaseM);
    END LOOP;
    CLOSE Csr;

    RETURN 1;

    EXCEPTION
    WHEN OTHERS THEN
        --error_code := SQLCODE;
        --error_msg := SQLERRM;
        --DBMS_OUTPUT.PUT_LINE(' SQL ERROR --> ' || SQLERRM );
        RETURN 0;
END;

FUNCTION CalcIV5(
    pISIC          IN VARCHAR2,  -- ISIC
    pCommodity     IN VARCHAR2,  -- CommodityCode
    pYear          IN NUMBER,    -- Year
    pMonth         IN NUMBER,    -- Month
    pScope         IN VARCHAR2,  -- Target Scope For Calculation
    pPreRev        IN VARCHAR2,  -- Pre_RevMark(1:Preliminary 2:Revised)
    pBaseY         IN NUMBER,    -- BaseYear
    pBaseM         IN NUMBER,    -- BaseMonth
)
return number /* 0 : Process is succeeded , -1 : Process is not succeeded */
IS
    -- Definition of Variables --
    nErr          NUMBER := 0;

    nThisIV       NUMBER;
    nBaseIV       NUMBER;
    nIndexIV      NUMBER;
    nLink         NUMBER;
    nDefl         NUMBER;

BEGIN
    /* Get Base Value */
    select /*+ all_rows*/
        sum(BP. ME_Inventory)
    into nBaseIV
    from BasePeriodFile BP, EstablishmentMaster EM
    where BP. ISIC = pISIC

```

```

and BP.Year = pBaseY
and BP.Month = pBaseM
and BP.SurveyScope = pScope ----- Modify 16/MAR
and BP.Version = '1' -- Monthly Process
and BP.ItemType = '1' -- Fixed Value
and BP.CommodityCode = pCommodity
and BP.ISIC = EM.ISIC
and BP.RegistrationNo = EM.RegistrationNo
and EM.SurveyScope <= pScope
and EM.ContinuousRespondent = '1' ;

/* Get This Month Value */
select /*+ all_rows*/
    sum(PR.ME_Inventory)
into nThisIV
from PastRecord PR, EstablishmentMaster EM
where PR.ISIC = pISIC
and PR.Year = pYear
and PR.Month = pMonth
and PR.Pre_Rev_Mark = pPreRev -- Monthly Process
and PR.ItemType = '1' -- Fixed Value
and PR.CommodityCode = pCommodity
and PR.ISIC = EM.ISIC
and PR.RegistrationNo = EM.RegistrationNo
and EM.SurveyScope <= pScope
and EM.ContinuousRespondent = '1' ;

/* Get Link Coefficient */
select ME_Inventory
into nLink
from LinkMaster --0221
where ISIC = pISIC
and ItemType = '1'
and CommodityCode = pCommodity
and SurveyScope = pScope
and Year = pYear
and Month = pMonth
and Version = '1';

/* Get Deflator Coefficient */
select ME_Inventory
into nDefl
from DeflatorMaster ---0221
where ISIC = pISIC
and ItemType = '1'
and CommodityCode = pCommodity
and SurveyScope = pScope
and Year = pYear
and Month = pMonth
and Version = '1';

/* Production */
IF (nBaseIV = 0) THEN
    nIndexIV := NULL;
ELSE
    nIndexIV := (nThisIV * nLink / nDefl) / nBaseIV;
END IF;

/* Set Production Index for AggregateRange5 */
update Index_Wk
set IndexIV3 = nIndexIV
where AggregationRange = '5'
and ISIC = pISIC
and ItemType = '1'
and IndexCommodityCode = pCommodity
and Year = pYear
and Month = pMonth
and SurveyScope = pScope
and Pre_Rev_Mark = pPreRev ;

RETURN nErr;

EXCEPTION
    WHEN OTHERS THEN
        RETURN -1;

END;

/* ----- */

```

```

* 4. Caluculation of Inventory Ratio Index *
* ----- */
FUNCTION CalcIR_Main (
    pYear          IN NUMBER, -- Year
    pMonth         IN NUMBER, -- Month
    pScope         IN VARCHAR2, -- Target Scope For Calculation
    pPreRev        IN VARCHAR2, -- Pre_RevMark(1:Preliminally 2:Revised)
    pBaseY         IN NUMBER, -- BaseYear
    pBaseM         IN NUMBER, -- BaseMonth
)
return number /* 1:Success , 0:Error */
IS
    -- This cursor gets "CommodityCode" for which
    -- IndexIR should be calculated .
    CURSOR Csr IS
        SELECT /*+ all_rows*/ ISIC , CommodityCode
        FROM CommodityMaster
        WHERE ItemType = '1'
          AND IndexScopeIR4 = '1' -- should be calculated for IndexPR
        ORDER BY ISIC , CommodityCode;
    Rec Csr%ROWTYPE;
    Ret NUMBER; -- Get return value of Func CalcPR5

BEGIN
    /* Calculate Index for Aggregation range 5 */
    OPEN Csr;
    LOOP
        FETCH Csr INTO Rec;
        EXIT WHEN Csr%NOTFOUND;
        Ret := CalcIR5(Rec. ISIC, Rec. CommodityCode, pYear, pMonth, pScope, pPreRev, pBaseY, p
BaseM);
    END LOOP;
    CLOSE Csr;

    RETURN 1;

EXCEPTION
    WHEN OTHERS THEN
        RETURN 0;
END;

FUNCTION CalcIR5(
    pISIC          IN VARCHAR2, -- ISIC
    pCommodity     IN VARCHAR2, -- CommodityCode
    pYear          IN NUMBER, -- Year
    pMonth         IN NUMBER, -- Month
    pScope         IN VARCHAR2, -- Target Scope For Calculation
    pPreRev        IN VARCHAR2, -- Pre_RevMark(1:Preliminally 2:Revised)
    pBaseY         IN NUMBER, -- BaseYear
    pBaseM         IN NUMBER, -- BaseMonth
)
return number /* 0 : Process is succeeded , -1 : Process is not succeeded */
IS
    nErr          NUMBER := 0; -- count missing values
    nThisIV       NUMBER;
    nBaseIV       NUMBER;
    nThisSP       NUMBER;
    nBaseSP       NUMBER;
    nLinkSP       NUMBER;
    nLinkIV       NUMBER;
    nDefIVSP      NUMBER;
    nDefIVIV      NUMBER;
    nIndexIR      NUMBER;

BEGIN
    /* Get Base Value */
    select /*+ all_rows*/
        sum(BP. DomesticSales) + sum(BP. Export),
        sum(BP. ME_Inventory)
    into nBaseSP, nBaseIV
    from BasePeriodFile BP, EstablishmentMaster EM
    where BP. ISIC = pISIC
      and BP. Year = pBaseY
      and BP. Month = pBaseM
      and BP. SurveyScope = pScope ---- Modify 16/MAR
      and BP. Version = '1' -- Monthly Process
      and BP. ItemType = '1' -- Fixed Value
      and BP. CommodityCode = pCommodity

```

```

and BP.ISIC = EM.ISIC
and BP.RegistrationNo = EM.RegistrationNo
and EM.SurveyScope <= pScope
and EM.ContinuousRespondent = '1' ;

/* Get This Month Value */
select /*+ all_rows*/
    sum(PR.DomesticSales) + sum(PR.Export),
    sum(PR.ME_Inventory)
into nThisSP, nThisIV
from PastRecord PR, EstablishmentMaster EM
where PR.ISIC = pISIC
and PR.Year = pYear
and PR.Month = pMonth
and PR.Pre_Rev_Mark = pPreRev -- Monthly Process
and PR.ItemType = '1' -- Fixed Value
and PR.CommodityCode = pCommodity
and PR.ISIC = EM.ISIC
and PR.RegistrationNo = EM.RegistrationNo
and EM.SurveyScope <= pScope
and EM.ContinuousRespondent = '1' ;

/* Get Link Coefficient */
select ShipmentQTY, ME_Inventory
into nLinkSP, nLinkIV
from LinkMaster --0221
where ISIC = pISIC
and ItemType = '1'
and CommodityCode = pCommodity
and SurveyScope = pScope
and Year = pYear
and Month = pMonth
and Version = '1' ;

/* Get Deflator Coefficient */
select ShipmentQTY, ME_Inventory
into nDeflSP, nDeflIV
from DeflatorMaster --0221
where ISIC = pISIC
and ItemType = '1'
and CommodityCode = pCommodity
and SurveyScope = pScope
and Year = pYear
and Month = pMonth
and Version = '1' ;

/* Inventory Ratio */
nIndexIR := ( (nThisIV * nLinkIV / nDeflIV) / (nThisSP * nLinkSP / nDeflSP) ) /
( nBaseIV / nBaseSP );

/* Set Production Index for AggregateRange5 */
update Index_Wk
set IndexIR4 = nIndexIR
where AggregationRange = '5'
and ISIC = pISIC
and ItemType = '1'
and IndexCommodityCode = pCommodity
and Year = pYear
and Month = pMonth
and SurveyScope = pScope
and Pre_Rev_Mark = pPreRev ;

RETURN nErr;

EXCEPTION
    WHEN OTHERS THEN
        RETURN -1;

END;

/* -----*
* 5. Calculation of Capacity Utilization Index *
* -----*/
FUNCTION CalcCU_Main (
    pYear          IN NUMBER, -- Year
    pMonth         IN NUMBER, -- Month
    pScope         IN VARCHAR2, -- Target Scope For Calculation
    pPreRev        IN VARCHAR2, -- Pre_RevMark(1:Preliminary 2:Revised)
    pBaseY         IN NUMBER, -- BaseYear

```

```

        pBaseM          IN  NUMBER    -- BaseMonth
    )
    return number /* 1:Success , 0:Error */
IS
    -- This cursor gets "CommodityCode" for which
    -- IndexCU should be calculated .
    CURSOR Csr IS
        SELECT /*+ all_rows*/ ISIC , CommodityCode
        FROM CommodityMaster
        WHERE ItemType = '6' -- Only this index is calculated from ItemType 6.
        AND IndexScopeCU5 = '1' -- should be calculated for IndexCU
        ORDER BY ISIC , CommodityCode;
    Rec Csr%ROWTYPE;
    Ret NUMBER; -- Get return value of Func CalcPR5

BEGIN
    /* Calculate Index for Aggregation range 5 */
    OPEN Csr;
    LOOP
        FETCH Csr INTO Rec;
        EXIT WHEN Csr%NOTFOUND;
        Ret := CalcCU5(Rec. ISIC, Rec. CommodityCode, pYear, pMonth, pScope, pPreRev, pBaseY, p
BaseM);
    END LOOP;
    CLOSE Csr;

    RETURN 1;

EXCEPTION
    WHEN OTHERS THEN
        --error_code := SQLCODE;
        --error_msg := SQLERRM;
        --DBMS_OUTPUT.PUT_LINE(' SQL ERROR --> ' || SQLERRM );
        RETURN 0;
END;

FUNCTION CalcCU5(
    pISIC          IN  VARCHAR2, -- ISIC
    pCommodity     IN  VARCHAR2, -- CommodityCode
    pYear          IN  NUMBER,   -- Year
    pMonth         IN  NUMBER,   -- Month
    pScope         IN  VARCHAR2, -- Target Scope For Calculation
    pPreRev        IN  VARCHAR2, -- Pre_RevMark(1:Preliminary 2:Revised)
    pBaseY         IN  NUMBER,   -- BaseYear
    pBaseM         IN  NUMBER    -- BaseMonth
)
    return number /* 0 : Process is succeeded , -1 : Process is not succeeded */
IS
    nErr          NUMBER := 0; -- count missing values

    nThisPR       NUMBER; -- production at this month
    nBasePR       NUMBER; -- production at the base month

    nThisCP       NUMBER; -- capacity at this month
    nBaseCP       NUMBER; -- capacity at the base month

    nIndexCU      NUMBER;

BEGIN
    /* Get Base Value */
    -- capacity from ItemType 6 --
    select /*+ all_rows*/
        sum(BP.Capacity)
    into nBaseCP
    from BasePeriodFile BP, EstablishmentMaster EM
    where BP.ISIC = pISIC
    and BP.Year = pBaseY
    and BP.Month = pBaseM
    and BP.SurveyScope = pScope ----- Modify 16/MAR
    and BP.Version = '1' -- Monthly Process
    and BP.ItemType = '6' -- Fixed Value
    and BP.CommodityCode = pCommodity
    and BP.ISIC = EM.ISIC
    and BP.RegistrationNo = EM.RegistrationNo
    and EM.SurveyScope <= pScope
    and EM.ContinuousRespondent = '1' ;

```

```

-- production from ItemType 1 --
select /*+ all_rows*/
    sum(BP.ProductionQTY)
into nBasePR
from BasePeriodFile BP, EstablishmentMaster EM
where BP.ISIC = pISIC
and BP.Year = pBaseY
and BP.Month = pBaseM
and BP.SurveyScope = pScope ---- Modify 16/MAR
and BP.Version = '1' -- Monthly Process
and BP.ItemType = '1' -- Fixed Value
and BP.CommodityCode IN
(
    select /*+ all_rows*/ CommodityCode
    from CommodityMaster
    where ISIC = pISIC
    and ItemType = '1'
    and CapacityCode = pCommodity
)
and BP.ISIC = EM.ISIC
and BP.RegistrationNo = EM.RegistrationNo
and EM.SurveyScope <= pScope
and EM.ContinuousRespondent = '1' ;

/* Get This Month Value */
-- capacity from ItemType 6 --
select /*+ all_rows*/
    sum(PR.Capacity * LM.Capacity / DM.Capacity)
into nThisCP
from PastRecord PR, EstablishmentMaster EM, LinkMaster LM, DeflatorMaster DM
where PR.ISIC = pISIC
and PR.Year = pYear
and PR.Month = pMonth
and PR.Pre_Rev_Mark = pPreRev
and PR.ItemType = '6' -- Fixed Value
and PR.CommodityCode = pCommodity
and PR.ISIC = EM.ISIC
and PR.RegistrationNo = EM.RegistrationNo
and EM.SurveyScope <= pScope
and EM.ContinuousRespondent = '1'
and LM.ISIC = PR.ISIC
and LM.ItemType = PR.ItemType
and LM.CommodityCode = PR.CommodityCode
and LM.Year = PR.Year
and LM.Month = PR.Month
and LM.SurveyScope = pScope
and LM.Version = '1'
and DM.ISIC = LM.ISIC
and DM.ItemType = LM.ItemType
and DM.CommodityCode = LM.CommodityCode
and DM.Year = LM.Year
and DM.Month = LM.Month
and DM.SurveyScope = LM.SurveyScope
and DM.Version = LM.Version;

-- production from ItemType 1 --
select /*+ all_rows*/
    sum(PR.ProductionQTY * LM.ProductionQTY / DM.ProductionQTY)
into nThisPR
from PastRecord PR, EstablishmentMaster EM, LinkMaster LM, DeflatorMaster DM
where PR.ISIC = pISIC
and PR.Year = pYear
and PR.Month = pMonth
and PR.Pre_Rev_Mark = pPreRev
and PR.ItemType = '1' -- Fixed Value
and PR.CommodityCode IN
(
    select /*+ all_rows*/ CommodityCode
    from CommodityMaster
    where ISIC = pISIC
    and ItemType = '1'
    and CapacityCode = pCommodity
)
and PR.ISIC = EM.ISIC
and PR.RegistrationNo = EM.RegistrationNo
and EM.SurveyScope <= pScope
and EM.ContinuousRespondent = '1'

```



```

and    LM. ISIC = PR. ISIC
and    LM. ItemType = PR. ItemType
and    LM. CommodityCode = PR. CommodityCode
and    LM. Year = PR. Year
and    LM. Month = PR. Month
and    LM. SurveyScope = pScope
and    LM. Version = '1'
and    DM. ISIC      = LM. ISIC
and    DM. ItemType = LM. ItemType
and    DM. CommodityCode = LM. CommodityCode
and    DM. Year      = LM. Year
and    DM. Month     = LM. Month
and    DM. SurveyScope = LM. SurveyScope
and    DM. Version   = LM. Version;

/* Capacity Utilization */
nIndexCU := (nThisPR / nThisCP ) / ( nBasePR / nBaseCP );

/* Set Production Index for AggregateRange5 */
update Index_Wk
set    IndexCU5 = nIndexCU
where  AggregationRange = '5'
and    ISIC = pISIC
and    ItemType = '6'
and    IndexCommodityCode = pCommodity
and    Year = pYear
and    Month = pMonth
and    SurveyScope = pScope
and    Pre_Rev_Mark = pPreRev ;

RETURN nErr;

EXCEPTION
    WHEN OTHERS THEN
        --error_code := SQLCODE;
        --error_msg  := SQLERRM;
        RETURN -1;

END;
*/-----*
* 6. Caluculation of Labor Productivity Index *
*-----*/
FUNCTION CalcLP_Main (
    pYear      IN  NUMBER,  -- Year
    pMonth     IN  NUMBER,  -- Month
    pScope     IN  VARCHAR2, -- Target Scope For Calculation
    pPreRev    IN  VARCHAR2, -- Pre_RevMark(1:Preliminary 2:Revised)
    pBaseY     IN  NUMBER,  -- BaseYear
    pBaseM     IN  NUMBER,  -- BaseMonth
)
return number /* 1:Success , 0:Error */
IS
    -- This cursor gets "CommodityCode" for which
    -- IndexIR should be calculated.
    CURSOR Csr IS
        SELECT /*+ all_rows*/ ISIC
        FROM ClassMaster
        ORDER BY ISIC ;
    Rec Csr%ROWTYPE;
    Ret NUMBER; -- Get return value of Func CalcPR5

BEGIN
    /* Calculate Index for Aggregation range 5 */
    OPEN Csr;
    LOOP
        FETCH Csr INTO Rec;
        EXIT WHEN Csr%NOTFOUND;
        Ret := CalcLP4(Rec. ISIC, pYear, pMonth, pScope, pPreRev, pBaseY, pBaseM);
    END LOOP;
    CLOSE Csr;

    RETURN 1;

EXCEPTION
    WHEN OTHERS THEN
        --error_code := SQLCODE;
        --error_msg  := SQLERRM;
        --DBMS_OUTPUT.PUT_LINE(' SQL ERROR --> ' || SQLERRM );

```

```

        RETURN 0;
END;

FUNCTION CalcLP4(
    pISIC          IN VARCHAR2, -- ISIC
    pYear          IN NUMBER,   -- Year
    pMonth         IN NUMBER,   -- Month
    pScope         IN VARCHAR2, -- Target Scope For Calculation
    pPreRev        IN VARCHAR2, -- Pre_RevMark(1:Preliminary 2:Revised)
    pBaseY         IN NUMBER,   -- BaseYear
    pBaseM         IN NUMBER    -- BaseMonth
)
return number /* 0 : Process is succeeded , -1 : Process is not succeeded */
IS
    nErr      NUMBER := 0; -- count missing values
    nThisPV   NUMBER; -- Production Value at current month
    nBasePV   NUMBER; -- Production Value at base month
    nThisLI   NUMBER; -- Labor Input at current month
    nBaseLI   NUMBER; -- Labor Input at base month
    nIndexLP  NUMBER;

BEGIN
    /* Get Base Value */
    -- 1. Production Value
    select /*+ all_rows*/
        sum(BP.ProductionQTY * BP.UnitPrice)
    into nBasePV
    from BasePeriodFile BP, EstablishmentMaster EM, CommodityMaster CM
    where BP.ISIC = pISIC
    and BP.Year = pBaseY
    and BP.Month = pBaseM
    and BP.SurveyScope = pScope ----- Modify 16/MAR
    and BP.Version = '1' -- Monthly Process
    and BP.ItemType = '1' -- Fixed Value
    and BP.ISIC = EM.ISIC
    and BP.RegistrationNo = EM.RegistrationNo
    and EM.SurveyScope <= pScope
    and EM.ContinuousRespondent = '1'
    and CM.ISIC = BP.ISIC
    and CM.ItemType = BP.ItemType
    and CM.CommodityCode = BP.CommodityCode
    and CM.IndexScopeLP6 = '1'
    group by BP.ISIC ;

    -- 2. Labor Input
    select /*+ all_rows*/
        SUM(BP1.Labor_SC * BP2.LaborTotal * BP3.LaborTotal)
    into nBaseLI
    from BasePeriodFile BP1, BasePeriodFile BP2, BasePeriodFile BP3,
        EstablishmentMaster EM
    where BP1.ISIC = pISIC
    and BP1.Year = pBaseY
    and BP1.Month = pBaseM
    and BP1.ItemType = '3' -- Fixed Value
    and BP1.CommodityCode = '010' -- Fixed Value
    and BP1.SurveyScope = pScope ----- Modify 16/MAR
    and BP1.Version = '1' -- Monthly Process

    --
    and BP2.ISIC = BP1.ISIC
    and BP2.Year = BP1.Year
    and BP2.Month = BP1.Month
    and BP2.RegistrationNo = BP1.RegistrationNo
    and BP2.ItemType = BP1.ItemType
    and BP2.CommodityCode = '020' -- Fixed Value
    and BP2.SurveyScope = pScope ----- Modify 16/MAR
    and BP2.Version = BP1.Version

    --
    and BP3.ISIC = BP1.ISIC
    and BP3.Year = BP1.Year
    and BP3.Month = BP1.Month
    and BP3.RegistrationNo = BP1.RegistrationNo
    and BP3.ItemType = BP1.ItemType
    and BP3.CommodityCode = '030' -- Fixed Value
    and BP3.SurveyScope = pScope ----- Modify 16/MAR
    and BP3.Version = BP1.Version

    --
    and EM.ISIC = BP1.ISIC
    and EM.RegistrationNo = BP1.RegistrationNo

```

```

and EM.SurveyScope <= pScope
and EM.ContinuousRespondent = '1' ;

/* Get This Month Value */
-- 1. Production Value
select /*+ all_rows*/
SUM((PR.ProductionQTY * LM.ProductionQTY / DM.ProductionQTY) * BP.UnitPrice)
into nThisPV
from PastRecord PR, EstablishmentMaster EM, BasePeriodFile BP,
CommodityMaster CM, LinkMaster LM, DeflatorMaster DM
where PR.ISIC = pISIC
and PR.Year = pYear
and PR.Month = pMonth
and PR.Pre_Rev_Mark = pPreRev
and PR.ItemType = '1' -- Fixed Value
--
and BP.ISIC = PR.ISIC
and BP.Year = pBaseY
and BP.Month = pBaseM
and BP.RegistrationNo = PR.RegistrationNo
and BP.ItemType = PR.ItemType
and BP.CommodityCode = PR.CommodityCode
and BP.SurveyScope = pScope ----- Modify 16/MAR
and BP.Version = '1' -- Fixed Value
--
and EM.ISIC = PR.ISIC
and EM.RegistrationNo = PR.RegistrationNo
and EM.SurveyScope <= pScope
and EM.ContinuousRespondent = '1'
--
and CM.ISIC = PR.ISIC
and CM.ItemType = PR.ItemType
and CM.CommodityCode = PR.CommodityCode
and CM.IndexScopeLP6 = '1'
--
and LM.ISIC = PR.ISIC
and LM.ItemType = PR.ItemType
and LM.CommodityCode = PR.CommodityCode
and LM.Year = PR.Year
and LM.Month = PR.Month
and LM.SurveyScope = pScope
and LM.Version = '1'
--
and DM.ISIC = LM.ISIC
and DM.ItemType = LM.ItemType
and DM.CommodityCode = LM.CommodityCode
and DM.Year = LM.Year
and DM.Month = LM.Month
and DM.SurveyScope = LM.SurveyScope
and DM.Version = LM.Version
group by PR.ISIC ;

-- 2. Labor Input
select /*+ all_rows*/
SUM( (PR1.Labor_SC * LM1.Worker)
* (PR2.LaborTotal * LM2.WorkingHour)
* (PR3.LaborTotal * LM3.WorkingDay) )
into nThisLI
from PastRecord PR1, PastRecord PR2, PastRecord PR3,
LinkMaster LM1, LinkMaster LM2, LinkMaster LM3,
EstablishmentMaster EM
where PR1.ISIC = pISIC
and PR1.Year = pYear
and PR1.Month = pMonth
and PR1.ItemType = '3' -- Fixed Value
and PR1.CommodityCode = '010' -- Fixed Value
and PR1.Pre_Rev_Mark = pPreRev
--
and PR2.ISIC = PR1.ISIC
and PR2.Year = PR1.Year
and PR2.Month = PR1.Month
and PR2.RegistrationNo = PR1.RegistrationNo
and PR2.ItemType = PR1.ItemType
and PR2.CommodityCode = '020' -- Fixed Value
and PR2.Pre_Rev_Mark = PR1.Pre_Rev_Mark
--
and PR3.ISIC = PR1.ISIC

```

```

and PR3.Year = PR1.Year
and PR3.Month = PR1.Month
and PR3.RegistrationNo = PR1.RegistrationNo
and PR3.ItemType = PR1.ItemType
and PR3.CommodityCode = '030' -- Fixed Value
and PR3.Pre_Rev_Mark = PR1.Pre_Rev_Mark
--
and LM1.ISIC = PR1.ISIC
and LM1.ItemType = PR1.ItemType
and LM1.CommodityCode = PR1.CommodityCode
and LM1.Year = PR1.Year
and LM1.Month = PR1.Month
and LM1.SurveyScope = pScope
and LM1.Version = '1'
--
and LM2.ISIC = PR2.ISIC
and LM2.ItemType = PR2.ItemType
and LM2.CommodityCode = PR2.CommodityCode
and LM2.Year = PR2.Year
and LM2.Month = PR2.Month
and LM2.SurveyScope = pScope
and LM2.Version = '1'
--
and LM3.ISIC = PR3.ISIC
and LM3.ItemType = PR3.ItemType
and LM3.CommodityCode = PR3.CommodityCode
and LM3.Year = PR3.Year
and LM3.Month = PR3.Month
and LM3.SurveyScope = pScope
and LM3.Version = '1'
--
and EM.ISIC = PR1.ISIC
and EM.RegistrationNo = PR1.RegistrationNo
and EM.SurveyScope <= pScope
and EM.ContinuousRespondent = '1' ;

/* Labor Productivity */
nIndexLP := (nThisPV / nThisLI) / (nBasePV / nBaseLI);

/* Set Production Index for AggregateRange5 */
update Index_Wk
set IndexLP6 = nIndexLP
where AggregationRange = '4'
and ISIC = pISIC
and ItemType = 'X'
and IndexCommodityCode = 'XXX'
and Year = pYear
and Month = pMonth
and SurveyScope = pScope
and Pre_Rev_Mark = pPreRev ;
RETURN nErr;

EXCEPTION
    WHEN OTHERS THEN
        RETURN -1;

END;

/* -----*
* 7. Common routine for aggregation *
* -----*/
FUNCTION AggregateIndex (
    pRange      IN NUMBER, -- Aggregation Range
    pYear       IN NUMBER, -- Year
    pMonth      IN NUMBER, -- Month
    pScope      IN VARCHAR2, -- Target Scope For Calculation
    pPreRev     IN VARCHAR2 -- Pre_RevMark(1:Preliminary 2:Revised)
)
return NUMBER
IS
    -- Definition of Cursor and Record Type and Variable --
    CURSOR Csr IS
        SELECT I.AggregationRange AS AggregationRange,
               I.ISIC              AS ISIC,
               I.ItemType          AS ItemType,
               I.IndexCommodityCode AS IndexCommodityCode,
               NVL(I.IndexPR1, 0) AS IndexPR1,
               NVL(I.IndexSP2, 0) AS IndexSP2,
               NVL(I.IndexIV3, 0) AS IndexIV3,

```

```

        NVL(I. IndexIR4, 0) AS IndexIR4,
        NVL(I. IndexCU5, 0) AS IndexCU5,
        NVL(I. IndexLP6, 0) AS IndexLP6,
        NVL(I. IndexLI7, 0) AS IndexLI7,
        NVL(I. IndexRI8, 0) AS IndexRI8,
        V. WeightPR1 AS WeightPR,
        V. WeightSP2 AS WeightSP,
        V. WeightIV3 AS WeightIV,
        V. WeightIR4 AS WeightIR,
        V. WeightCU5 AS WeightCU,
        V. WeightLP6 AS WeightLP,
        V. WeightLI7 AS WeightLI,
        V. WeightRI8 AS WeightRI,
        V. IntegratedKey AS IntegratedKey
FROM Index_Wk I, WeightAggregation V
WHERE I. AggregationRange = TO_CHAR(pRange + 1)
      AND I. Year = pYear
      AND I. Month = pMonth
      AND I. SurveyScope = pScope
      AND I. Pre_Rev_Mark = pPreRev
      AND I. AggregationRange = V. AggregationRange
      AND I. ISIC = V. ISIC
      AND I. ItemType = V. ItemType
      AND I. IndexCommodityCode = V. CommodityCode
      AND I. SurveyScope = V. SurveyScope --0221
      AND V. Version = '1' --0221
ORDER BY I. ISIC, I. ItemType, I. IndexCommodityCode;
Rec Csr%ROWTYPE;
TotalWeightPR NUMBER := 0;
TotalWeightSP NUMBER := 0;
TotalWeightIV NUMBER := 0;
TotalWeightIR NUMBER := 0;
TotalWeightCU NUMBER := 0;
TotalWeightLP NUMBER := 0;
TotalWeightLI NUMBER := 0;
TotalWeightRI NUMBER := 0;
PrevKey VARCHAR(8) := 'START';
SameKeyRecCnt NUMBER := 0;
Ret NUMBER := 0;
PR NUMBER := 0; --1
SP NUMBER := 0; --2
IV NUMBER := 0; --3
IR NUMBER := 0; --4
CU NUMBER := 0; --5
LP NUMBER := 0; --6
LI NUMBER := 0; --7
RI NUMBER := 0; --8

BEGIN
OPEN Csr;
LOOP
  FETCH Csr INTO Rec;
  EXIT WHEN Csr%NOTFOUND;

  /* If the KEY breaks, set the value(index) on the database. */
  IF (PrevKey != 'START') AND (PrevKey != Rec. IntegratedKey) THEN
    UPDATE Index_Wk
      SET IndexPR1 = PR,
          IndexSP2 = SP,
          IndexIV3 = IV,
          IndexIR4 = IR,
          IndexCU5 = CU,
          IndexLP6 = LP,
          IndexLI7 = LI,
          IndexRI8 = RI
    WHERE AggregationRange = TO_CHAR(pRange)
          AND ISIC = PrevKey
          AND ItemType = 'X'
          AND IndexCommodityCode = 'XXX'
          AND Year = pYear
          AND Month = pMonth
          AND SurveyScope = pScope
          AND Pre_Rev_Mark = pPreRev;

    /* Reset the counter and index of previous key */
    SameKeyRecCnt := 0;
    PR := 0;

```

```

        SP := 0;
        IV := 0;
        IR := 0;
        CU := 0;
        LP := 0;
        LI := 0;
        RI := 0;
    END IF;

    /* Save the KEY for Key-Break controlling */
    PrevKey := Rec. IntegratedKey;

    /* Get the Total Weight for the current KEY (ISIC) */
    IF SameKeyRecCnt = 0 THEN
        SELECT WeightPR1, WeightSP2, WeightIV3,
               WeightIR4, WeightCU5, WeightLP6,
               WeightLI7, WeightRI8
        INTO     TotalWeightPR, TotalWeightSP, TotalWeightIV,
               TotalWeightIR, TotalWeightCU, TotalWeightLP,
               TotalWeightLI, TotalWeightRI
        FROM     WeightAggregation
        WHERE    AggregationRange = TO_CHAR(pRange)
        AND      SurveyScope = pScope --0221
        AND      Version = '1' --0221
        AND      ISIC = Rec. IntegratedKey
        AND      ItemType = 'X'
        AND      ROWNUM = 1 ;
    END IF;

    /* Store the data */
    SameKeyRecCnt := SameKeyRecCnt + 1;

    -- 1. Production Index
    IF TotalWeightPR = 0 THEN
        PR := 0;
    ELSE
        PR := PR + (Rec. WeightPR / TotalWeightPR) * Rec. IndexPR1;
    END IF;

    -- 2. Shipment Index
    IF TotalWeightSP = 0 THEN
        SP := 0;
    ELSE
        SP := SP + (Rec. WeightSP / TotalWeightSP) * Rec. IndexSP2;
    END IF;

    -- 3. Inventory Index
    IF TotalWeightIV = 0 THEN
        IV := 0;
    ELSE
        IV := IV + (Rec. WeightIV / TotalWeightIV) * Rec. IndexIV3;
    END IF;

    -- 4. Inventory Ratio Index
    IF TotalWeightIR = 0 THEN
        IR := 0;
    ELSE
        IR := IR + (Rec. WeightIR / TotalWeightIR) * Rec. IndexIR4;
    END IF;

    -- 5. Capacity Utilization Index
    IF TotalWeightCU = 0 THEN
        CU := 0;
    ELSE
        CU := CU + (Rec. WeightCU / TotalWeightCU) * Rec. IndexCU5;
    END IF;

    -- 6. Labor Productivity Index
    IF TotalWeightLP = 0 THEN
        LP := 0;
    ELSE
        LP := LP + (Rec. WeightLP / TotalWeightLP) * Rec. IndexLP6;
    END IF;

    -- 7. Labor Input Index
    IF TotalWeightLI = 0 THEN
        LI := 0;
    
```

```

ELSE
    LI := LI + (Rec.WeightLI / TotalWeightLI) * Rec.IndexLI7;
END IF;

-- 8. Raw Material Inventory Index
IF TotalWeightRI = 0 THEN
    RI := 0;
ELSE
    RI := RI + (Rec.WeightRI / TotalWeightRI) * Rec.IndexRI8;
END IF;
END LOOP;

/* Update the final data */
IF (PrevKey != 'START') THEN
    UPDATE Index_Wk
    SET IndexPR1 = PR,
        IndexSP2 = SP,
        IndexIV3 = IV,
        IndexIR4 = IR,
        IndexCU5 = CU,
        IndexLP6 = LP,
        IndexLI7 = LI,
        IndexRI8 = RI
    WHERE AggregationRange = TO_CHAR(pRange)
        AND ISIC = PrevKey
        AND ItemType = 'X'
        AND IndexCommodityCode = 'XXX'
        AND Year = pYear
        AND Month = pMonth
        AND SurveyScope = pScope
        AND Pre_Rev_Mark = pPreRev;
END IF;

CLOSE Csr;
RETURN 1;

EXCEPTION
    WHEN OTHERS THEN
        RETURN 0;
END;

/* -----*
* 8. Common routine for getting BasePeriod *
* -----*/
/* GetBasePeriod
|| Get base year and month for each surveyscope.
*/
Procedure GetBasePeriod (
    pYear          IN NUMBER,    -- Year
    pMonth         IN NUMBER,    -- Month
    pScope         IN VARCHAR2,  -- Target Scope For Calculation
    oYear          OUT NUMBER,   -- Year
    oMonth         OUT NUMBER    -- Month
)
IS
    sBase varchar2(6);
BEGIN
    select /*+ all_rows*/
        to_char(max(Year*100 + Month)) -- Formatting 'YYYYMM'
    into sBase
    from BasePeriodFile
    where (Year*100 + Month) <= (pYear*100 + pMonth)
        and SurveyScope = pScope;

    oYear := substr(sBase, 1, 4);
    oMonth := substr(sBase, 5, 2);
END;

/*===== end of package body =====*/
END;
/*=====*/

/
show errors

```

```

-- =====
-- Package Name : Survey Data Checking
-- Package ID   : cksv
-- Create Date  : 02/Sep/1999
-- Replace Date : xx/xx/xxxx
-- Author      : Nakamura
--
-- File        : @c:#jica#cksv
-- Test        : select * from warninglog
-- =====

create or replace package cksv is
procedure p_cksurvey (
    inYear          In number,
    inMonth         In number,
    inISIC          In varchar2,
    inRegistrationNo In varchar2);

end;
/
show errors
/

create or replace package body cksv is
-----
-- Full Input Checking
-----
function f_fullinput(
    inBM_Inventory in number,
    inProductionQTY in number,
    inReceipts      in number,
    inDomesticSales in number,
    inExport        in number,
    inOtherSales    in number,
    inME_Inventory in number,
    inShipmentValue in number) return boolean is

    bReturn boolean := false;

begin
    if inBM_Inventory is null
    and inProductionQTY is null
    and inReceipts is null
    and inDomesticSales is null
    and inExport is null
    and inOtherSales is null
    and inME_Inventory is null
    and inShipmentValue is null then
        bReturn := true;
        return bReturn;
    end if;

    if inBM_Inventory is not null
    and inProductionQTY is not null
    and inReceipts is not null
    and inDomesticSales is not null
    and inExport is not null
    and inOtherSales is not null
    and inME_Inventory is not null
    and inShipmentValue is not null then
        bReturn := true;
        return bReturn;
    end if;

    return bReturn;

exception
    when others then
        return bReturn;

end;

-----
-- Logical Ballance Checking
-----
function f_ballance(
    inBM_Inventory in number,
    inProductionQTY in number,
    inReceipts      in number,
    inDomesticSales in number,

```



```

inExport          in number,
inOtherSales      in number,
inME_Inventory    in number) return boolean is

bReturn boolean := false;
BM_Inventory number;
ProductionQTY number;
Receipts number;
DomesticSales number;
Export number;
OtherSales number;
ME_Inventory number;

begin
-- Data Change
BM_Inventory := nvl(inBM_Inventory, 0);
ProductionQTY := nvl(inProductionQTY, 0);
Receipts := nvl(inReceipts, 0);
DomesticSales := nvl(inDomesticSales, 0);
Export := nvl(inExport, 0);
OtherSales := nvl(inOtherSales, 0);
ME_Inventory := nvl(inME_Inventory, 0);

-- Logical ballance caluculation
if BM_Inventory + (ProductionQTY + Receipts) - (DomesticSales + Export + OtherSales)
between ME_Inventory - 1 and ME_Inventory + 1 then
    bReturn := true;
    return bReturn;
end if;

return bReturn;

exception
    when others then
        return bReturn;
end;

-----
-- Operation Days Checking
-----
function f_opedays(
    inLaborTotal in number,
    inYear in number,
    inMonth in number) return boolean is

    bReturn boolean := false;
    dLastDay date;
    nLastDay number;

begin
    if inLaborTotal is null or inLaborTotal = 0 then
        bReturn := true;
        return bReturn;
    end if;

    dLastDay := last_day(to_date(to_char(inYear, '9999') || to_char(inMonth, '09') || '01', 'yyyymmdd'));
    nLastDay := to_number(to_char(dLastDay, 'dd'));

    if inLaborTotal > nLastDay then
        return bReturn;
    end if;

    bReturn := true;
    return bReturn;

exception
    when others then
        null;
end;

-----
-- Comparison Check
-----
function f_compprev(
    inCurrValue in number,

```

```

        inPrevValue in number,
        inDevRange in number,
        inPrevExist in boolean) return boolean is
        bReturn boolean := false;
        nUnderPrevValue number;
        nOverPrevValue number;
begin
-- Current Data Null
    if inCurrValue is null then
        bReturn := true;
        return bReturn;
    end if;

-- Previous data not found
    if inPrevExist = false then
        bReturn := true;
        return bReturn;
    end if;

-- Previous Data null or 0
    if inPrevValue is null or inPrevValue = 0 then
        bReturn := true;
        return bReturn;
    end if;

-- Check range
    nUnderPrevValue := inPrevValue * (100 - inDevRange) / 100;
    nOverPrevValue := inPrevValue * (100 + inDevRange) / 100;
    if inCurrValue >= nUnderPrevValue and inCurrValue <= nOverPrevValue then
        bReturn := true;
        return bReturn;
    end if;

    return bReturn;
exception
    when others then
        return bReturn;
end;

-----
-- Continuous response checking
-----
function f_continue(
    inCurrValue in number,
    inPrevValue in number,
    inPrevExist in boolean) return boolean is
    bReturn boolean := false;

begin
-- Current Month data is inputted
    if inCurrValue is not null then
        bReturn := true;
        return bReturn;
    end if;

-- Previous month data not found
    if inPrevExist = false then
        bReturn := true;
        return bReturn;
    end if;

-- Previous month data value is null
    if inPrevValue is null then
        bReturn := true;
        return bReturn;
    end if;

    return bReturn;
exception
    when others then
        return bReturn;
end;

-----
-- Inventory Checking
-----
function f_inventory(

```

```

        inBM_Inventory in number,
        inME_Inventory in number,
        inPrevExist in boolean) return boolean is
        bReturn boolean := false;

begin
-- Current Month data is inputed
    if inBM_Inventory is null then
        bReturn := true;
        return bReturn;
    end if;

-- Previous month data not found
    if inPrevExist = false then
        bReturn := true;
        return bReturn;
    end if;

-- Previous month data value is null
    if inME_Inventory is null then
        bReturn := true;
        return bReturn;
    end if;

-- Equal Checking
    if inBM_Inventory = inME_Inventory then
        bReturn := true;
        return bReturn;
    end if;

    return bReturn;

exception
    when others then
        return bReturn;
end;

-----
-- Unit Price Check And Caluculation
-----

function f_uprice(
    inShipmentValue      in number,
    inDomesticSales      in number,
    inExport              in number,
    outUnitPrice         out number) return boolean is

    bReturn              boolean := false;
    ShipmentValue number;
    DomesticSales number;
    Export number;

begin
-- All Null Checking
    if inShipmentValue is null
    and inDomesticSales is null
    and inExport is null then
        bReturn := true;
        outUnitPrice := 0;
        return bReturn;
    end if;

-- All Zero Checking
    if inShipmentValue = 0
    and inDomesticSales = 0
    and inExport = 0 then
        bReturn := true;
        outUnitPrice := 0;
        return bReturn;
    end if;

-- Data Change
    ShipmentValue := nvl(inShipmentValue, 0);
    DomesticSales := nvl(inDomesticSales, 0);
    Export := nvl(inExport, 0);

-- Zero Checking
    if ShipmentValue = 0 then

```

```

        outUnitPrice := 0;
        return bReturn;
    end if;

    if DomesticSales + Export = 0 then
        outUnitPrice := 0;
        return bReturn;
    end if;

-- Unit Price Caluculation
    outUnitPrice := ShipmentValue / (DomesticSales + Export);

    bReturn := true;
    return bReturn;

exception
    when others then
        return bReturn;
end;

-----
-- Worning Log Output
-----

procedure p_warningout(
    inMessageCode          in Varchar2,
    inISIC                 in Varchar2,
    inRegistrationNo       in Varchar2,
    inYear                 in Number,
    inMonth                in Number,
    inItemType             in Varchar2,
    inCommodityCode       in Varchar2) is

begin
    insert
    into WarningLog (
        ISIC,
        RegistrationNo,
        Year,
        Month,
        ItemType,
        CommodityCode,
        MessageCode)
    Values (
        inISIC,
        inRegistrationNo,
        inYear,
        inMonth,
        inItemType,
        inCommodityCode,
        inMessageCode);

exception
    when dup_val_on_index then
        null;
end;

-----
-- Survey Data Checking
-----

procedure p_cksurvey (
    inYear                 in number,
    inMonth                in number,
    inISIC                 in varchar2,
    inRegistrationNo       in varchar2) is

-- Record Area Define
    recsd                  SurveyData%rowtype;
    recpmpr                PastRecord%rowtype;
    recpypr                PastRecord%rowtype;
    recdrn                 DeviationRangeMaster%rowtype;
    recsdfg                vw_SurveyDataFG%rowtype;

-- Flg Area Define
    bPMPastRecord          boolean;
    bPYPastRecord          boolean;

-- Date Check Area

```

```

nPMYear      SurveyData.Year%type;
nPMMonth     SurveyData.Month%type;
nPYear       SurveyData.Year%type;
nPYMonth     SurveyData.Month%type;

-- Work Area Define
nUnitPrice   number;

-- Survey F/G Data Cursor
Cursor csrSurveyFG is
    select *
    from vw_SurveyDataFG
    where ISIC = inISIC
    and RegistrationNo = inRegistrationNo
    and Year = inYear
    and Month = inMonth;

-- Past Record Unit Cursor (Last Month)
Cursor csrPMUPastRecord is
    select *
    from PastRecord
    where ISIC = inISIC
    and RegistrationNo = inRegistrationNo
    and Year = nPMYear
    and Month = nPMMonth
    and ItemType = '1'
    and CommodityCode = recsdfg.CommodityCode
    and Pre_Rev_Mark in ('1','2')
    order by Pre_Rev_Mark desc;

-- Past Record Unit Cursor (Last Year Month)
Cursor csrPYUPastRecord is
    select *
    from PastRecord
    where ISIC = inISIC
    and RegistrationNo = inRegistrationNo
    and Year = nPYYear
    and Month = nPYMonth
    and ItemType = '1'
    and CommodityCode = recsdfg.CommodityCode
    and Pre_Rev_Mark in ('1','2')
    order by Pre_Rev_Mark desc;

-- Survey Data Cursor
Cursor csrSurveyData is
    select *
    from SurveyData
    where ISIC = inISIC
    and RegistrationNo = inRegistrationNo
    and Year = inYear
    and Month = inMonth;

-- Past Record Cursor (Last Month)
Cursor csrPMPastRecord is
    select *
    from PastRecord
    where ISIC = inISIC
    and RegistrationNo = inRegistrationNo
    and Year = nPMYear
    and Month = nPMMonth
    and ItemType = recsd.ItemType
    and CommodityCode = recsd.CommodityCode
    and Pre_Rev_Mark in ('1','2')
    order by Pre_Rev_Mark desc;

-- Past Record Cursor (Last Year Month)
Cursor csrPYPastRecord is
    select *
    from PastRecord
    where ISIC = inISIC
    and RegistrationNo = inRegistrationNo
    and Year = nPYYear
    and Month = nPYMonth
    and ItemType = recsd.ItemType
    and CommodityCode = recsd.CommodityCode
    and Pre_Rev_Mark in ('1','2')
    order by Pre_Rev_Mark desc;

```

```

Begin
-- DBMS_OUTPUT.PUT_LINE('Start PGM');
-- Warning Log Delete
delete from WarningLog
where ISIC
and RegistrationNo = inRegistrationNo
and Year = inYear
and Month = inMonth;

-- Date Caluculation
if inMonth = 1 Then
nPMYear := inYear - 1;
nPMMonth := 12;
else
nPMYear := inYear;
nPMMonth := inMonth - 1;
end if;
nPYYear := inYear - 1;
nPYMonth := inMonth;

-- Deviation Range Master Selecting
begin
Select *
into recdrm
from DeviationRangeMaster
where ISIC = inISIC;
exception
when no_data_found then
recdrm.DR_ComparePreMonth := 10;
recdrm.DR_ComparePreYear := 10;
recdrm.DR_UnitPrice := 10;
recdrm.DR_LaborInput := 10;
recdrm.DR_LaborDays := 10;
end;

-- Survey F/G Open -> Fetch
open csrSurveyFG;
fetch csrSurveyFG into recsdfg;
while csrSurveyFG%found loop
-- Full Input Check
if not f_fullinput (recsdfg.BM_Inventory, recsdfg.ProductionQTY, recsdfg.Re
ceipts,
recsdfg.DomesticSales, recsdfg.Export, recsdfg.OtherSales,
recsdfg.ME_Inventory, recsdfg.ShipmentValue) then
p_warningout ('I11', inISIC, inRegistrationNo, inYear,
inMonth, '1', recsdfg.CommodityCode);
end if;
-- Unit Price Checking
if not f_uprice (recsdfg.ShipmentValue, recsdfg.DomesticSales, recsdfg.Expo
rt,
nUnitPrice) then
p_warningout ('U21', inISIC, inRegistrationNo, inYear,
inMonth, '2', recsdfg.CommodityCode);
end if;
-- Comparison Check for Unit Price
if nUnitPrice = 0 then
null;
else
bPMPastRecord := false;
open csrPMUPastRecord;
fetch csrPMUPastRecord into recpmpr;
if csrPMUPastRecord%found then
bPMPastRecord := true;
end if;
close csrPMUPastRecord;

bPYPastRecord := false;
open csrPYUPastRecord;
fetch csrPYUPastRecord into recpypr;
if csrPYUPastRecord%found then
bPYPastRecord := true;
end if;
close csrPYUPastRecord;

if not f_compprev (nUnitPrice, recpmpr.UnitPrice,
recdrm.DR_UnitPrice, bPMPastRecord) then

```

```

        p_warningout ('M23', inISIC, inRegistrationNo, inYear,
inMonth, '2', recsdfg.CommodityCode);
        end if;
        if not f_compprev (nUnitPrice, recpypr.UnitPrice,
recdr.DR_UnitPrice, bPYPastRecord) then
            p_warningout ('Y23', inISIC, inRegistrationNo, inYear,
inMonth, '2', recsdfg.CommodityCode);
            end if;
        end if;

        fetch csrSurveyFG into recsdfg;
        end loop;
        close csrSurveyFG;

-- Survey Data Open -> Fetch
        open csrSurveyData;
        fetch csrSurveyData into recsd;
        while csrSurveyData%found loop

-- Past Record Selecting(Last Month)
            bPMPastRecord := false;
            open csrPMPastRecord;
            fetch csrPMPastRecord into recpmpr;
            if csrPMPastRecord%found then
                bPMPastRecord := true;
            end if;
            close csrPMPastRecord;

-- Past Record Selecting(Last Year)
            bPYPastRecord := false;
            open csrPYPastRecord;
            fetch csrPYPastRecord into recpypr;
            if csrPYPastRecord%found then
                bPYPastRecord := true;
            end if;
            close csrPYPastRecord;

-- Check survey data by item type
            if recsd.ItemType = '1' then

-- Logical ballance checking
                if not f_ballance (recsd.BM_Inventory, recsd.ProductionQTY, recsd.Receipts,
recsd.DomesticSales, recsd.Export, recsd.OtherSales,
recsd.ME_Inventory) then
                    p_warningout('B11', inISIC, inRegistrationNo, inYear,
inMonth, recsd.ItemType, recsd.CommodityCode);
                    end if;

-- Comparison Check(Previous Month)
                    if not f_compprev (recsd.BM_Inventory, recpmpr.BM_Inventory,
recdr.DR_ComparePreMonth, bPMPastRecord) then
                        p_warningout('M11', inISIC, inRegistrationNo, inYear,
inMonth, recsd.ItemType, recsd.CommodityCode);
                        end if;
                    if not f_compprev (recsd.ProductionQTY, recpmpr.ProductionQTY,
recdr.DR_ComparePreMonth, bPMPastRecord) then
                        p_warningout('M12', inISIC, inRegistrationNo, inYear,
inMonth, recsd.ItemType, recsd.CommodityCode);
                        end if;
                    if not f_compprev (recsd.Receipts, recpmpr.Receipts,
recdr.DR_ComparePreMonth, bPMPastRecord) then
                        p_warningout('M13', inISIC, inRegistrationNo, inYear,
inMonth, recsd.ItemType, recsd.CommodityCode);
                        end if;
                    if not f_compprev (recsd.DomesticSales, recpmpr.DomesticSales,
recdr.DR_ComparePreMonth, bPMPastRecord) then
                        p_warningout('M14', inISIC, inRegistrationNo, inYear,
inMonth, recsd.ItemType, recsd.CommodityCode);
                        end if;
                    if not f_compprev (recsd.Export, recpmpr.Export,
recdr.DR_ComparePreMonth, bPMPastRecord) then
                        p_warningout('M15', inISIC, inRegistrationNo, inYear,
inMonth, recsd.ItemType, recsd.CommodityCode);
                        end if;
                    if not f_compprev (recsd.OtherSales, recpmpr.OtherSales,
recdr.DR_ComparePreMonth, bPMPastRecord) then
                        p_warningout('M16', inISIC, inRegistrationNo, inYear,
inMonth, recsd.ItemType, recsd.CommodityCode);
                    end if;
                end if;
            end if;
        end loop;
    end if;
end if;

```

```

end if;
if not f_compprev (recsd. ME_Inventory, recpmpr. ME_Inventory,
recdr. DR_ComparePreMonth, bPMPastRecord) then
p_warningout(' M17', inISIC, inRegistrationNo, inYear,
inMonth, recsd. ItemType, recsd. CommodityCode);
end if;

-- Comparison Check(Month of previous year)
if not f_compprev (recsd. BM_Inventory, recpypr. BM_Inventory,
recdr. DR_ComparePreYear, bPYPastRecord) then
p_warningout(' Y11', inISIC, inRegistrationNo, inYear,
inMonth, recsd. ItemType, recsd. CommodityCode);
end if;
if not f_compprev (recsd. ProductionQTY, recpypr. ProductionQTY,
recdr. DR_ComparePreYear, bPYPastRecord) then
p_warningout(' Y12', inISIC, inRegistrationNo, inYear,
inMonth, recsd. ItemType, recsd. CommodityCode);
end if;
if not f_compprev (recsd. Receipts, recpypr. Receipts,
recdr. DR_ComparePreYear, bPYPastRecord) then
p_warningout(' Y13', inISIC, inRegistrationNo, inYear,
inMonth, recsd. ItemType, recsd. CommodityCode);
end if;
if not f_compprev (recsd. DomesticSales, recpypr. DomesticSales,
recdr. DR_ComparePreYear, bPYPastRecord) then
p_warningout(' Y14', inISIC, inRegistrationNo, inYear,
inMonth, recsd. ItemType, recsd. CommodityCode);
end if;
if not f_compprev (recsd. Export, recpypr. Export,
recdr. DR_ComparePreYear, bPYPastRecord) then
p_warningout(' Y15', inISIC, inRegistrationNo, inYear,
inMonth, recsd. ItemType, recsd. CommodityCode);
end if;
if not f_compprev (recsd. OtherSales, recpypr. OtherSales,
recdr. DR_ComparePreYear, bPYPastRecord) then
p_warningout(' Y16', inISIC, inRegistrationNo, inYear,
inMonth, recsd. ItemType, recsd. CommodityCode);
end if;
if not f_compprev (recsd. ME_Inventory, recpypr. ME_Inventory,
recdr. DR_ComparePreYear, bPYPastRecord) then
p_warningout(' Y17', inISIC, inRegistrationNo, inYear,
inMonth, recsd. ItemType, recsd. CommodityCode);
end if;

-- Continuous checking
if not f_continue (recsd. BM_Inventory, recpmpr. BM_Inventory, bPMPastRecord)
then
p_warningout (' C11', inISIC, inRegistrationNo, inYear,
inMonth, recsd. ItemType, recsd. CommodityCode);
end if;
if not f_continue (recsd. ProductionQTY, recpmpr. ProductionQTY, bPMPastReco
rd) then
p_warningout (' C12', inISIC, inRegistrationNo, inYear,
inMonth, recsd. ItemType, recsd. CommodityCode);
end if;
if not f_continue (recsd. Receipts, recpmpr. Receipts, bPMPastRecord) then
p_warningout (' C13', inISIC, inRegistrationNo, inYear,
inMonth, recsd. ItemType, recsd. CommodityCode);
end if;
if not f_continue (recsd. DomesticSales, recpmpr. DomesticSales, bPMPastReco
rd) then
p_warningout (' C14', inISIC, inRegistrationNo, inYear,
inMonth, recsd. ItemType, recsd. CommodityCode);
end if;
if not f_continue (recsd. Export, recpmpr. Export, bPMPastRecord) then
p_warningout (' C15', inISIC, inRegistrationNo, inYear,
inMonth, recsd. ItemType, recsd. CommodityCode);
end if;
if not f_continue (recsd. OtherSales, recpmpr. OtherSales, bPMPastRecord) th
en
p_warningout (' C16', inISIC, inRegistrationNo, inYear,
inMonth, recsd. ItemType, recsd. CommodityCode);
end if;
if not f_continue (recsd. ME_Inventory, recpmpr. ME_Inventory, bPMPastRecord)
then
p_warningout (' C17', inISIC, inRegistrationNo, inYear,
inMonth, recsd. ItemType, recsd. CommodityCode);

```



```

        end if;

-- Inventory Check
    if not f_inventory (recsd.BM_Inventory, recmpr.ME_Inventory,
                        bPMPastRecord) then
        p_warningout('E11', inISIC, inRegistrationNo, inYear,
                    inMonth, recsd.ItemType, recsd.CommodityCode);
    end if;

    elsif recsd.ItemType = '2' then
-- Comparison Check(Previous Month)
        if not f_compprev (recsd.ShipmentValue, recmpr.ShipmentValue,
                        recdr.DR_ComparePreMonth, bPMPastRecord) then
            p_warningout ('M21', inISIC, inRegistrationNo, inYear,
                        inMonth, recsd.ItemType, recsd.CommodityCode);
        end if;
        if not f_compprev (recsd.SalesPlan, recmpr.SalesPlan,
                        recdr.DR_ComparePreMonth, bPMPastRecord) then
            p_warningout ('M22', inISIC, inRegistrationNo, inYear,
                        inMonth, recsd.ItemType, recsd.CommodityCode);
        end if;

-- Comparison Check(Month of previous year)
        if not f_compprev (recsd.ShipmentValue, recpyr.ShipmentValue,
                        recdr.DR_ComparePreYear, bPYPastRecord) then
            p_warningout ('Y21', inISIC, inRegistrationNo, inYear,
                        inMonth, recsd.ItemType, recsd.CommodityCode);
        end if;
        if not f_compprev (recsd.SalesPlan, recpyr.SalesPlan,
                        recdr.DR_ComparePreYear, bPYPastRecord) then
            p_warningout ('Y22', inISIC, inRegistrationNo, inYear,
                        inMonth, recsd.ItemType, recsd.CommodityCode);
        end if;

-- Continuous checking
        if not f_continue (recsd.ShipmentValue, recmpr.ShipmentValue, bPMPastRecord)
    then
        p_warningout ('C21', inISIC, inRegistrationNo, inYear,
                    inMonth, recsd.ItemType, recsd.CommodityCode);
        end if;
        if not f_continue (recsd.SalesPlan, recmpr.SalesPlan, bPMPastRecord) then
            p_warningout ('C22', inISIC, inRegistrationNo, inYear,
                        inMonth, recsd.ItemType, recsd.CommodityCode);
        end if;

        elsif recsd.ItemType = '3' then
-- Operation Days Checking
            if recsd.CommodityCode = '030' then
                if not f_opedays (recsd.LaborTotal, inYear, inMonth) then
                    p_warningout ('D31', inISIC, inRegistrationNo, inYear,
                                inMonth, recsd.ItemType, recsd.CommodityCode);
                end if;
            end if;

-- Comparison Check Of Labor Input(Previous Month)
            if recsd.CommodityCode = '010' then
                if not f_compprev (recsd.LaborTotal, recmpr.LaborTotal,
                        recdr.DR_LaborInput, bPMPastRecord) then
                    p_warningout('M31', inISIC, inRegistrationNo, inYear,
                                inMonth, recsd.ItemType, recsd.CommodityCode);
                end if;
                if not f_compprev (recsd.Labor_SC, recmpr.Labor_SC,
                        recdr.DR_LaborInput, bPMPastRecord) then
                    p_warningout('M32', inISIC, inRegistrationNo, inYear,
                                inMonth, recsd.ItemType, recsd.CommodityCode);
                end if;
            end if;

-- Comparison Check Of Labor Hours(Previous Month)
            if recsd.CommodityCode = '020' then
                if not f_compprev (recsd.LaborTotal, recmpr.LaborTotal,
                        recdr.DR_LaborHour, bPMPastRecord) then
                    p_warningout('M33', inISIC, inRegistrationNo, inYear,
                                inMonth, recsd.ItemType, recsd.CommodityCode);
                end if;
            end if;

-- Comparison Check Of Labor Days(Previous Month)
            if recsd.CommodityCode = '030' then
                if not f_compprev (recsd.LaborTotal, recmpr.LaborTotal,

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```

recdm.DR_LaborDays, bPMPastRecord) then
    p_warningout('M34', inISIC, inRegistrationNo, inYear,
inMonth, recsd.ItemType, recsd.CommodityCode);
end if;
end if;
-- Comparison Check of Labor Input(Month of previous year)
if recsd.CommodityCode = '010' then
    if not f_compprev (recsd.LaborTotal, recpypr.LaborTotal,
recdm.DR_LaborInput, bPYPastRecord) then
        p_warningout ('Y31', inISIC, inRegistrationNo, inYear,
inMonth, recsd.ItemType, recsd.CommodityCode);
    end if;
    if not f_compprev (recsd.Labor_SC, recpypr.Labor_SC,
recdm.DR_LaborInput, bPYPastRecord) then
        p_warningout ('Y32', inISIC, inRegistrationNo, inYear,
inMonth, recsd.ItemType, recsd.CommodityCode);
    end if;
end if;
-- Comparison Check Of Labor Days(Month of previous year)
if recsd.CommodityCode = '020' then
    if not f_compprev (recsd.LaborTotal, recpypr.LaborTotal,
recdm.DR_LaborHour, bPYPastRecord) then
        p_warningout ('Y33', inISIC, inRegistrationNo, inYear,
inMonth, recsd.ItemType, recsd.CommodityCode);
    end if;
end if;
-- Comparison Check Of Labor Days(Month of previous year)
if recsd.CommodityCode = '030' then
    if not f_compprev (recsd.LaborTotal, recpypr.LaborTotal,
recdm.DR_LaborDays, bPYPastRecord) then
        p_warningout ('Y34', inISIC, inRegistrationNo, inYear,
inMonth, recsd.ItemType, recsd.CommodityCode);
    end if;
end if;
-- Continuous checking
if not f_continue (recsd.LaborTotal, recpmpr.LaborTotal, bPMPastRecord)
then
    p_warningout ('C31', inISIC, inRegistrationNo, inYear,
inMonth, recsd.ItemType, recsd.CommodityCode);
end if;
if not f_continue (recsd.Labor_SC, recpmpr.Labor_SC, bPMPastRecord) then
    p_warningout ('C32', inISIC, inRegistrationNo, inYear,
inMonth, recsd.ItemType, recsd.CommodityCode);
end if;
elseif recsd.ItemType = '4' then
-- Comparison Check(Previous Month)
if not f_compprev (recsd.RwMt_MEInventory, recpmpr.RwMt_MEInventory,
recdm.DR_ComparePreMonth, bPMPastRecord) then
    p_warningout ('M41', inISIC, inRegistrationNo, inYear,
inMonth, recsd.ItemType, recsd.CommodityCode);
end if;
if not f_compprev (recsd.RwMt_MEInventoryValue, recpmpr.RwMt_MEInvento
ryValue,
recdm.DR_ComparePreMonth, bPMPastRecord) then
    p_warningout ('M42', inISIC, inRegistrationNo, inYear,
inMonth, recsd.ItemType, recsd.CommodityCode);
end if;
-- Comparison Check(Month of previous year)
if not f_compprev (recsd.RwMt_MEInventory, recpypr.RwMt_MEInventory,
recdm.DR_ComparePreYear, bPYPastRecord) then
    p_warningout ('Y41', inISIC, inRegistrationNo, inYear,
inMonth, recsd.ItemType, recsd.CommodityCode);
end if;
if not f_compprev (recsd.RwMt_MEInventoryValue, recpypr.RwMt_MEInvento
ryValue,
recdm.DR_ComparePreYear, bPYPastRecord) then
    p_warningout ('Y42', inISIC, inRegistrationNo, inYear,
inMonth, recsd.ItemType, recsd.CommodityCode);
end if;
-- Continuous checking
if not f_continue (recsd.RwMt_MEInventory, recpmpr.RwMt_MEInventory, bP
MPastRecord) then
    p_warningout ('C41', inISIC, inRegistrationNo, inYear,
inMonth, recsd.ItemType, recsd.CommodityCode);

```

```

        end if;
        if not f_continue (recsd. RWMt_MEInventoryValue, recpmpr. RWMt_MEInventoryValue, bPMPastRecord) then
            p_warningout ('C42', inISIC, inRegistrationNo, inYear,
                inMonth, recsd. ItemType, recsd. CommodityCode);
            end if;

        elsif recsd. ItemType = '5' then
            null;
        elsif recsd. ItemType = '6' then
            -- Comparison Check(Previous Month)
            if not f_compprev (recsd. Capacity, recpmpr. Capacity,
                recdm. DR_ComparePreMonth, bPMPastRecord) then
                p_warningout ('M61', inISIC, inRegistrationNo, inYear,
                    inMonth, recsd. ItemType, recsd. CommodityCode);
            end if;
            -- Comparison Check(Month of previous year)
            if not f_compprev (recsd. Capacity, recpypr. Capacity,
                recdm. DR_ComparePreYear, bPYPastRecord) then
                p_warningout ('Y61', inISIC, inRegistrationNo, inYear,
                    inMonth, recsd. ItemType, recsd. CommodityCode);
            end if;
            -- Continuous checking
            if not f_continue (recsd. Capacity, recpmpr. Capacity, bPMPastRecord) then
                p_warningout ('C61', inISIC, inRegistrationNo, inYear,
                    inMonth, recsd. ItemType, recsd. CommodityCode);
            end if;

        end if;

        fetch csrSurveyData into recsd;
        end loop;

        close csrSurveyData;
    end;

end;
/
show errors
/

```

```

-- =====
-- Package Name : Contribution Ratio, Degree Calculation
-- Package ID : CtbCal
-- Create Date : 04/Nov/1999
-- Replace Date : 15/Feb/2000
-- Author : T. Nakamura
--
-- File : @g:%storedproc\CtbCal;
-- Test : BEGIN CtbCal.p_IndustryInAll(77, 1999, 2, '1
-- Test : BEGIN CtbCal.p_CommlnAll(77, 1999, 2, '1', '2', '0');
-- Test : BEGIN CtbCal.p_CommlnIndustry(77, '1', 'XXXX
-- Test : BEGIN CtbCal.p_EstInComm(2, '4', '151210', 19
-- Test : BEGIN CtbCal.p_EstInComm(2, '4', '151210', 19
-- =====
create or replace package CtbCal is

procedure p_IndustryInAll (
    inSeq          in number,
    inYear         in number,
    inMonth        in number,
    inSurveyScope  in varchar2,
    inPre_Rev_Mark in varchar2,
    inComparisonTarget in varchar2);

procedure p_CommlnAll (
    inSeq          in number,
    inYear         in number,
    inMonth        in number,
    inSurveyScope  in varchar2,
    inPre_Rev_Mark in varchar2,
    inComparisonTarget in varchar2);

procedure p_CommlnIndustry (
    inSeq          in number,
    inAggregationRange in Varchar2,
    inISIC         in Varchar2,
    inYear         in number,
    inMonth        in number,
    inSurveyScope  in varchar2,
    inPre_Rev_Mark in varchar2,
    inComparisonTarget in varchar2);

procedure p_EstInComm (
    inSeq          in number,
    inAggregationRange in varchar2,
    inISIC         in varchar2,
    inYear         in number,
    inMonth        in number,
    inPre_Rev_Mark in varchar2,
    inSurveyScope  in varchar2,
    inComparisonTarget in varchar2);

end CtbCal;
/
show errors
/

create or replace package body CtbCal is
-- =====
-- Contribution Degree Calculation
-- =====
function f_CtbDegreeCal (
    inIndexCur    in number,
    inIndexPre     in number,
    inWeight       in number,
    inIntIndexPre  in number,
    inWeightTtl    in number)
return number is
    nCtbDegree    number;

begin

```

```

        if      inIntIndexPre = 0 or inWeightTtl = 0 then
            nCtbDegree := null;
            return nCtbDegree;
        end if;

        nCtbDegree := ((inIndexCur * inWeight) - (inIndexPre * inWeight)) /
            (inIntIndexPre * inWeightTtl) * 100;

        if      nCtbDegree = 0 then
            nCtbDegree := null;
        end if;

        return nCtbDegree;
    end;

-----
-- Contribution Ratio Calculation
-----
function f_CtbRatioCal (
    inCD          number,
    inCDTtl       number,
    in            number,
    num           number) return number is
    nCtbRatio     number;
begin
    if      inCDTtl = 0 then
        nCtbRatio := null;
        return nCtbRatio;
    end if;

    nCtbRatio := inCD / inCDTtl * 100;

    if      nCtbRatio = 0 then
        nCtbRatio := null;
    end if;

    return nCtbRatio;
end;

-----
-- Industry In All Calculation
-----
procedure p_IndustryInAll (
    inSeq          in number,
    inYear         in number,
    inMonth        in number,
    inSurveyScope  in varchar2,
    inPre_Rev_Mark in varchar2,
    inComparisonTarget in varchar2) is
    -- Record Area Define
    recid Indices%rowtype;
    recidp Indices%rowtype;
    recidpi Indices%rowtype;
    reccl ContributionForAll1%rowtype;
    recclt ContributionForAll1%rowtype;
    recwa WeightAggregation%rowtype;
    recwat WeightAggregation%rowtype;

    -- Work Area
    nPM number;
    nPY number;

    -- Indices Table Cursor
    Cursor csrid is
        select ISIC, IndexPR1, IndexSP2, IndexIV3, IndexIR4, IndexCU5, IndexLP6
        from Indices
        where AggregationRange = '3'
              and Year = inYear
              and Month = inMonth
              and SurveyScope = inSurveyScope
              and Pre_Rev_Mark = inPre_Rev_Mark;

```

```

-- Contribution For All 1 Cursor
Cursor csrcl is
select CD_PR1, CD_SP2, CD_IV3, CD_IR4, CD_CU5, CD_LP6
from ContributionForAll1
where Seq = inSeq
and ComparisonTarget = inComparisonTarget
for update;

Begin
-- DBMS_OUTPUT.PUT_LINE(' Start p_ActualValue ' || to_char(sysdate, 'HH24:MI:SS'));
-- Get Pre Year and Month
if inComparisonTarget = '0' then
if inMonth = 1 then
nPY := inYear - 1;
nPM := 12;
else
nPY := inYear;
nPM := inMonth - 1;
end if;
else
nPY := inYear - 1;
nPM := inMonth;
end if;

-- Get Weight Aggregation Total
begin
Select WeightPR1, WeightSP2, WeightIV3, WeightIR4, WeightCU5, WeightLP6
into recwat.WeightPR1, recwat.WeightSP2, recwat.WeightIV3,
recwat.WeightIR4, recwat.WeightCU5, recwat.W
eightLP6
from WeightAggregation
where AggregationRange = '1'
and SurveyScope = inSurveyScope
and Version = '1';

exception
when no_data_found then
recwat.WeightPR1 := null;
recwat.WeightSP2 := null;
recwat.WeightIV3 := null;
recwat.WeightIR4 := null;
recwat.WeightCU5 := null;
recwat.WeightLP6 := null;

end;

-- Get Pre Integrated Data Selecting
begin
select IndexPR1, IndexSP2, IndexIV3,
IndexIR4, IndexCU5, IndexLP6
into recidpi.IndexPR1, recidpi.IndexSP2, recidpi.IndexIV3,
recidpi.IndexIR4, recidpi.IndexCU5, recidpi.IndexLP6
from Indices
where AggregationRange = '1'
and Year = nPY
and Month = nPM
and SurveyScope = inSurveyScope
and Pre_Rev_Mark = '2';

exception
when no_data_found then
recidpi.IndexPR1 := 0;
recidpi.IndexSP2 := 0;
recidpi.IndexIV3 := 0;
recidpi.IndexIR4 := 0;
recidpi.IndexCU5 := 0;
recidpi.IndexLP6 := 0;
end;

-- Indices Cursor Open Fetch
open csrcl;
fetch csrcl
into recid.ISIC,
recid.IndexPR1, recid.IndexSP2, recid.IndexIV3,
recid.IndexIR4, recid.IndexCU5, recid.IndexLP6;

-- Indices Cursor Fetch Looping

```

```

while csrid%found loop

-- Pre Data Selecting
begin
    select IndexPR1, IndexSP2, IndexIV3, IndexIR4, IndexCU5, IndexLP6
    into recdp. IndexPR1, recdp. IndexSP2, recdp. IndexIV3,
    recdp. IndexIR4, recdp. IndexCU5, recdp. IndexLP6
    from Indices
    where AggregationRange = '3'
    and ISIC = recid. ISIC
    and Year = nPY
    and Month = nPM
    and SurveyScope = inSurveyScope
    and Indices. Pre_Rev_Mark = '2';

    exception
    when no_data_found then
        recdp. IndexPR1 := 0;
        recdp. IndexSP2 := 0;
        recdp. IndexIV3 := 0;
        recdp. IndexIR4 := 0;
        recdp. IndexCU5 := 0;
        recdp. IndexLP6 := 0;
    end;

-- Weight ISIC Selecting
begin
    Select WeightPR1, WeightSP2, WeightIV3, WeightIR4, WeightCU5, WeightLP6
    into recwa. WeightPR1, recwa. WeightSP2, recwa. WeightIV3,
    recwa. WeightIR4, recwa. WeightCU5, re
    cwa. WeightLP6
    from WeightAggregation
    where AggregationRange = '3'
    and ISIC = recid. ISIC
    and SurveyScope = inSurveyScope
    and Version = '1';

    exception
    when no_data_found then
        recwa. WeightPR1 := null;
        recwa. WeightSP2 := null;
        recwa. WeightIV3 := null;
        recwa. WeightIR4 := null;
        recwa. WeightCU5 := null;
        recwa. WeightLP6 := null;
    end;

-- Contribution Degree Calculation
    reccl. CD_PR1 := f_CtbDegreeCal(recid. IndexPR1, recdp. IndexPR1,
    recwa. WeightPR1, recdpi. IndexPR1, recwat. WeightPR1);
    reccl. CD_SP2 := f_CtbDegreeCal(recid. IndexSP2, recdp. IndexSP2,
    recwa. WeightSP2, recdpi. IndexSP2, recwat. WeightSP2);
    reccl. CD_IV3 := f_CtbDegreeCal(recid. IndexIV3, recdp. IndexIV3,
    recwa. WeightIV3, recdpi. IndexIV3, recwat. WeightIV3);
    reccl. CD_IR4 := f_CtbDegreeCal(recid. IndexIR4, recdp. IndexIR4,
    recwa. WeightIR4, recdpi. IndexIR4, recwat. WeightIR4);
    reccl. CD_CU5 := f_CtbDegreeCal(recid. IndexCU5, recdp. IndexCU5,
    recwa. WeightCU5, recdpi. IndexCU5, recwat. WeightCU5);
    reccl. CD_LP6 := f_CtbDegreeCal(recid. IndexLP6, recdp. IndexLP6,
    recwa. WeightLP6, recdpi. IndexLP6, recwat. WeightLP6);

-- Insert Contribution Table
    Insert
    into ContributionForAll11 (
        ISIC,
        Year,
        Month,
        SurveyScope,
        Pre_Rev_mark,
        ComparisonTarget,
        Seq,
        CD_PR1,
        CD_SP2,
        CD_IV3,
        CD_IR4,
        CD_CU5,
        CD_LP6)

```

```

Values (recid. ISIC,
                                inYear,
                                inMonth,
                                inSurveyScope,
                                inPre_Rev_mark,
                                inComparisonTarget,
                                inSeq,
                                recc1. CD_PR1,
                                recc1. CD_SP2,
                                recc1. CD_IV3,
                                recc1. CD_IR4,
                                recc1. CD_CU5,
                                recc1. CD_LP6);

-- Fetch Indices Table
                                fetch
                                into      csrid
                                recid. ISIC,
                                recid. IndexPR1, recid. IndexSP2, reci
                                d. IndexIV3,
                                recid. IndexIR4, recid. IndexCU5, reci
                                d. IndexLP6;

                                end loop;

                                close csrid;

-- Get Total Contribution Degree
                                select  sum(CD_PR1), sum(CD_SP2), sum(CD_IV3), sum(CD_IR4), sum(CD_CU5), sum(CD
_LP6)
                                into      recc1t. CD_PR1, recc1t. CD_SP2, recc1t. CD_IV3,
                                recc1t. CD_IR4, recc1t. CD_CU5, recc1t. CD_LP6
                                from      ContributionForAll1
                                where Seq = inSeq
                                and       ComparisonTarget = inComparisonTarget;

-- Contribution Cursor Open Fetch
                                open      csrcl;
                                fetch      csrcl
                                into      recc1. CD_PR1, recc1. CD_SP2, recc1. CD_IV3,
                                recc1. CD_IR4, recc1. CD_CU5, recc1. CD_LP6;

-- Indices Cursor Fetch Looping
                                while csrcl%found loop
-- Contribution Ratio Calculation
                                recc1. CR_PR1 := f_CtbRatioCal(recc1. CD_PR1, recc1t. CD_PR1);
                                recc1. CR_SP2 := f_CtbRatioCal(recc1. CD_SP2, recc1t. CD_SP2);
                                recc1. CR_IV3 := f_CtbRatioCal(recc1. CD_IV3, recc1t. CD_IV3);
                                recc1. CR_IR4 := f_CtbRatioCal(recc1. CD_IR4, recc1t. CD_IR4);
                                recc1. CR_CU5 := f_CtbRatioCal(recc1. CD_CU5, recc1t. CD_CU5);
                                recc1. CR_LP6 := f_CtbRatioCal(recc1. CD_LP6, recc1t. CD_LP6);

-- Update Contribution Table
                                update      ContributionForAll1
                                set          CR_PR1 = recc1. CR_PR1,
                                CR_SP2 = recc1. CR_SP2,
                                CR_IV3 = recc1. CR_IV3,
                                CR_IR4 = recc1. CR_IR4,
                                CR_CU5 = recc1. CR_CU5,
                                CR_LP6 = recc1. CR_LP6
                                where      current of csrcl;

-- Contribution Cursor Fetch
                                fetch      csrcl
                                into      recc1. CD_PR1, recc1. CD_SP2, recc1. CD_IV3,
                                recc1. CD_IR4, recc1. CD_CU5, recc1. CD_LP6;

                                end loop;

                                close csrcl;

end;

-----
-- Commodity In All Calculation
-----

procedure p_ComInAll (
                                inSeq
                                in      number,

```



```

inYear          in          number,
inMonth         in          number,
inSurveyScope   in          varchar2,
inPre_Rev_Mark  in          varchar2,
inComparisonTarget in      varchar2) is

-- Record Area Define
recid      Indices%rowtype;
recidp     Indices%rowtype;
recidpi    Indices%rowtype;
recc2      ContributionForAll2%rowtype;
recc2t     ContributionForAll2%rowtype;
recwa      WeightAggregation%rowtype;
recwat     WeightAggregation%rowtype;

-- Work Area
nPM         number;
nPY         number;

-- Indices Table Cursor
Cursor csrid is
select ISIC, ItemType, IndexCommodityCode, IndexPR1, IndexSP2, IndexIV3, IndexI
R4, IndexCU5, IndexLP6
from Indices
where AggregationRange = '5'
and Year = inYear
and Month = inMonth
and SurveyScope = inSurveyScope
and Pre_Rev_Mark = inPre_Rev_Mark;

-- Contribution For All 2 Cursor
Cursor csr2 is
select CD_PR1, CD_SP2, CD_IV3, CD_IR4, CD_CU5, CD_LP6
from ContributionForAll2
where Seq = inSeq
and ComparisonTarget = inComparisonTarget
for update;

Begin
-- DBMS_OUTPUT.PUT_LINE('Start');
-- Get Pre Year and Month
if inComparisonTarget = '0' then
if inMonth = 1 then
nPY := inYear - 1;
nPM := 12;
else
nPY := inYear;
nPM := inMonth - 1;
end if;
else
nPY := inYear - 1;
nPM := inMonth;
end if;

-- Get Weight Total
begin
Select WeightPR1, WeightSP2, WeightIV3, WeightIR4, WeightCU5, WeightLP6
into recwat.WeightPR1, recwat.WeightSP2, recwat.WeightIV3,
recwat.WeightIR4, recwat.WeightCU5, recwat.W
eightLP6
from WeightAggregation
where AggregationRange = '1'
and SurveyScope = inSurveyScope
and Version = '1';

exception
when no_data_found then
recwat.WeightPR1 := null;
recwat.WeightSP2 := null;
recwat.WeightIV3 := null;
recwat.WeightIR4 := null;
recwat.WeightCU5 := null;
recwat.WeightLP6 := null;

end;

-- Get Pre Integrated Data Selecting
begin

```

```

select  IndexPR1, IndexSP2, IndexIV3,
        IndexIR4, IndexCU5, IndexLP6
into    recidpi. IndexPR1, recidpi. IndexSP2, recidpi. IndexIV3,
        recidpi. IndexIR4, recidpi. IndexCU5, recidpi. IndexLP6
from    Indices
where   AggregationRange = '1'
        and Year = nPY
        and Month = nPM
        and SurveyScope = inSurveyScope
        and Pre_Rev_Mark = '2';

exception
when no_data_found then
    recidpi. IndexPR1      := 0;
recidpi. IndexSP2        := 0;
recidpi. IndexIV3        := 0;
recidpi. IndexIR4        := 0;
recidpi. IndexCU5        := 0;
recidpi. IndexLP6        := 0;
end;

-- Indices Cursor Open Fetch
open    csrid;
fetch   csrid
into    recid. ISIC, recid. ItemType, recid. IndexCommodityCode,
        recid. IndexPR1, recid. IndexSP2, recid. IndexIV3,
        recid. IndexIR4, recid. IndexCU5, recid. IndexLP6;

-- Indices Cursor Fetch Looping
while csrid%found loop

-- Pre Data Selecting
begin
    select  IndexPR1, IndexSP2, IndexIV3, IndexIR4, IndexCU5, IndexLP6
    into    recidp. IndexPR1, recidp. IndexSP2, recidp. IndexIV3,
            recidp. IndexIR4, recidp. IndexCU5, recidp. IndexLP6
    from    Indices
    where   AggregationRange = '5'
            and ISIC = recid. ISIC
            and ItemType = recid. ItemType
            and IndexCommodityCode = recid. IndexCommodityCode
            and Year = nPY
            and Month = nPM
            and SurveyScope = inSurveyScope
            and Indices. Pre_Rev_Mark = '2';

    exception
    when no_data_found then
        recidp. IndexPR1 := 0;
recidp. IndexSP2 := 0;
recidp. IndexIV3 := 0;
recidp. IndexIR4 := 0;
recidp. IndexCU5 := 0;
recidp. IndexLP6 := 0;
end;

-- Weight Selecting by Commodity Level.
begin
    Select  WeightPR1, WeightSP2, WeightIV3, WeightIR4, WeightCU5, WeightLP6
    into    recwa. WeightPR1, recwa. WeightSP2, recwa. WeightIV3,
            recwa. WeightIR4, recwa. WeightCU5, re

cwa. WeightLP6

        from    WeightAggregation
        where   AggregationRange = '5'
                and ISIC = recid. ISIC
                and ItemType = recid. ItemType
                and CommodityCode = recid. IndexCommodityCode
                and SurveyScope = inSurveyScope
                and Version = '1';

    exception
    when no_data_found then
        recwa. WeightPR1 := null;
        recwa. WeightSP2 := null;
        recwa. WeightIV3 := null;
        recwa. WeightIR4 := null;
        recwa. WeightCU5 := null;

```

```

                                recwa.WeightLP6 := null;
end;

-- Contribution Degree Calculation
recc2.CD_PR1 := f_CtbDegreeCal(recid.IndexPR1, recidp.IndexPR1,
                                recwa.WeightPR1, recidpi.IndexPR1, recwat.WeightPR1);
recc2.CD_SP2 := f_CtbDegreeCal(recid.IndexSP2, recidp.IndexSP2,
                                recwa.WeightSP2, recidpi.IndexSP2, recwat.WeightSP2);
recc2.CD_IV3 := f_CtbDegreeCal(recid.IndexIV3, recidp.IndexIV3,
                                recwa.WeightIV3, recidpi.IndexIV3, recwat.WeightIV3);
recc2.CD_IR4 := f_CtbDegreeCal(recid.IndexIR4, recidp.IndexIR4,
                                recwa.WeightIR4, recidpi.IndexIR4, recwat.WeightIR4);
recc2.CD_CU5 := f_CtbDegreeCal(recid.IndexCU5, recidp.IndexCU5,
                                recwa.WeightCU5, recidpi.IndexCU5, recwat.WeightCU5);
recc2.CD_LP6 := f_CtbDegreeCal(recid.IndexLP6, recidp.IndexLP6,
                                recwa.WeightLP6, recidpi.IndexLP6, recwat.WeightLP6);

-- Insert Contribution Table
Insert
    into
        ContributionForAll2 (
            ISIC,
            ItemType,
            CommodityCode,
            Year,
            Month,
            SurveyScope,
            Pre_Rev_mark,
            ComparisonTarget,
            Seq,
            CD_PR1,
            CD_SP2,
            CD_IV3,
            CD_IR4,
            CD_CU5,
            CD_LP6)
    Values (recid.ISIC,
            recid.ItemType,
            recid.IndexCommodityCode,
            inYear,
            inMonth,
            inSurveyScope,
            inPre_Rev_mark,
            inComparisonTarget,
            inSeq,
            recc2.CD_PR1,
            recc2.CD_SP2,
            recc2.CD_IV3,
            recc2.CD_IR4,
            recc2.CD_CU5,
            recc2.CD_LP6);

-- Fetch Indices Table
fetch
    into
        csrid
        recid.ISIC, recid.ItemType, recid.IndexCommodityCode,
        recid.IndexPR1, recid.IndexSP2, recid.IndexIV3,
        recid.IndexIR4, recid.IndexCU5, recid.IndexLP6;

end loop;

close csrid;

-- Get Total Contribution Degree
select sum(CD_PR1), sum(CD_SP2), sum(CD_IV3), sum(CD_IR4), sum(CD_CU5), sum(CD_LP6)
into recc2t.CD_PR1, recc2t.CD_SP2, recc2t.CD_IV3,
     recc2t.CD_IR4, recc2t.CD_CU5, recc2t.CD_LP6
from ContributionForAll2
where Seq = inSeq
and ComparisonTarget = inComparisonTarget;

-- Contribution Cursor Open Fetch
open csrc2;
fetch csrc2
into recc2.CD_PR1, recc2.CD_SP2, recc2.CD_IV3,

```

```

recc2. CD_IR4, recc2. CD_CU5, recc2. CD_LP6;

-- Indices Cursor Fetch Looping
while csrc2%found loop

-- Contribution Ratio Calculation
recc2. CR_PR1 := f_CtbRatioCal(recc2. CD_PR1, recc2t. CD_PR1);
recc2. CR_SP2 := f_CtbRatioCal(recc2. CD_SP2, recc2t. CD_SP2);
recc2. CR_IV3 := f_CtbRatioCal(recc2. CD_IV3, recc2t. CD_IV3);
recc2. CR_IR4 := f_CtbRatioCal(recc2. CD_IR4, recc2t. CD_IR4);
recc2. CR_CU5 := f_CtbRatioCal(recc2. CD_CU5, recc2t. CD_CU5);
recc2. CR_LP6 := f_CtbRatioCal(recc2. CD_LP6, recc2t. CD_LP6);

-- Update Contribution Table
update ContributionForAll12
set
    CR_PR1 = recc2. CR_PR1,
    CR_SP2 = recc2. CR_SP2,
    CR_IV3 = recc2. CR_IV3,
    CR_IR4 = recc2. CR_IR4,
    CR_CU5 = recc2. CR_CU5,
    CR_LP6 = recc2. CR_LP6
where current of csrc2;

-- Contribution Cursor Fetch
fetch csrc2
into recc2. CD_PR1, recc2. CD_SP2, recc2. CD_IV3,
recc2. CD_IR4, recc2. CD_CU5, recc2. CD_LP6;

end loop;

close csrc2;

end;

-----
-- Commodity In Industry
-----
procedure p_CommInIndustry (
    inSeq          in number,
    inAggregationRange in varchar2,
    inISIC          in varchar2,
    inYear          in number,
    inMonth         in number,
    inSurveyScope   in varchar2,
    inPre_Rev_Mark  in varchar2,
    inComparisonTarget in varchar2) is

-- Record Area Define
recid Indices%rowtype;
recidp Indices%rowtype;
recidpi Indices%rowtype;
recci ContributionForIndustry%rowtype;
reccit ContributionForIndustry%rowtype;
recwa WeightAggregation%rowtype;
recwat WeightAggregation%rowtype;

-- Work Area
nPM number;
nPY number;

sISIC2d Varchar2(2);
sISIC4d Varchar2(4);

sOldISIC Varchar2(4);

-- Indices Table Cursor
Cursor csrid is
select ISIC, ItemType, IndexCommodityCode,
IndexPR1, IndexSP2, IndexIV3, IndexIR4, IndexC
U5, IndexLP6
from Indices
where AggregationRange = '5'
and Year = inYear
and Month = inMonth
and SurveyScope = inSurveyScope
and Pre_Rev_Mark = inPre_Rev_Mark
order by ISIC;

```

```

-- Contribution For Industry Cursor
Cursor cscri is
    select  ISIC, CD_PR1, CD_SP2, CD_IV3, CD_IR4, CD_CU5, CD_LP6
    from    ContributionForIndustry
    where   Seq = inSeq
           and ComparisonTarget = inComparisonTarget
    order by ISIC
           for update;

Begin
    -- DBMS_OUTPUT.PUT_LINE('Start');
    -- Get Pre Year and Month
    if      inComparisonTarget = '0'          then
        if      inMonth = 1 then
            nPY  := inYear - 1;
            nPM  := 12;
        else
            nPY  := inYear;
            nPM  := inMonth - 1;
        end if;
    else
        nPY  := inYear - 1;
        nPM  := inMonth;
    end if;

    sISIC2d := substr(inISIC, 1, 2);
    sISIC4d := substr(inISIC, 1, 4);

    sOldISIC := null;

    -- Indices Cursor Open Fetch
    open    csrid;
    fetch   csrid
    into    recid. ISIC, recid. ItemType, recid. IndexCommodityCode,
           recid. IndexPR1, recid. IndexSP2, recid. IndexIV3,
           recid. IndexIR4, recid. IndexCU5, recid. IndexLP6;

    -- Indices Cursor Fetch Looping
    while csrid%found loop

    -- Check Aggregation Range
    if      (inAggregationRange = '1')
    or      (inAggregationRange = '2' and substr(recid. ISIC, 1, 2) = sISIC2d)
    or      (inAggregationRange = '3' and substr(recid. ISIC, 1, 4) = sISIC4d) th
en
        if      sOldISIC = substr(recid. ISIC, 1, 4) then
            null;
        else
            sOldISIC := substr(recid. ISIC, 1, 4);

    -- Get Weight Total
    begin
        Select  WeightPR1, WeightSP2, WeightIV3, WeightIR4, We
        ightCU5, WeightLP6
        into    recwat. WeightPR1, recwat. WeightSP2,
               recwat. WeightIV3,
               recwat. WeightCU5, recwat. WeightLP6

        from    WeightAggregation
        where   AggregationRange = '3'
               and ISIC like substr(recid. ISI
C, 1, 4) || '%'

               and SurveyScope = inSurveyScope
               and Version = '1';

    exception
        when no_data_found then
            recwat. WeightPR1 := null;
            recwat. WeightSP2 := null;
            recwat. WeightIV3 := null;
            recwat. WeightIR4 := null;
            recwat. WeightCU5 := null;
            recwat. WeightLP6 := null;

    end;

    -- Get Pre Integrated Data Selecting

```

```

begin
    select IndexPR1, IndexSP2, IndexIV3,
           IndexIR4, IndexCU5, IndexLP6
    into   recidpi. IndexPR1, recidpi. IndexSP2,
           recidpi. IndexIR4, recidpi. IndexCU5,
           recidpi. IndexLP6
    from   Indices
    where  AggregationRange = '3'
           and ISIC like substr(recid. ISI
                                and Year = nPY
                                and Month = nPM
                                and SurveyScope = inSurveyScope
                                and Pre_Rev_Mark = '2';

exception
    when no_data_found then
        recidpi. IndexPR1 := 0;
        recidpi. IndexSP2 := 0;
        recidpi. IndexIV3 := 0;
        recidpi. IndexIR4 := 0;
        recidpi. IndexCU5 := 0;
        recidpi. IndexLP6 := 0;
    end;
end if;

-- Pre Data Selecting
begin
    select IndexPR1, IndexSP2, IndexIV3, IndexIR4, IndexCU5, Index
    into   recidp. IndexPR1, recidp. IndexSP2, recidp. Ind
    from   Indices
    where  AggregationRange = '5'
           and ISIC = recid. ISIC
           and ItemType = recid. ItemType
           and IndexCommodityCode = recid. IndexCommodityC
           and Year = nPY
           and Month = nPM
           and SurveyScope = inSurveyScope
           and Indices. Pre_Rev_Mark = '2';

exception
    when no_data_found then
        recidp. IndexPR1 := 0;
        recidp. IndexSP2 := 0;
        recidp. IndexIV3 := 0;
        recidp. IndexIR4 := 0;
        recidp. IndexCU5 := 0;
        recidp. IndexLP6 := 0;
    end;

-- Weight Selecting by Commodity Level.
begin
    select WeightPR1, WeightSP2, WeightIV3, WeightIR4, WeightCU5,
    into   recwa. WeightPR1, recwa. WeightSP2, recwa. Weig
    from   WeightAggregation,
    where  AggregationRange = '5'
           and ISIC = recid. ISIC
           and ItemType = recid. ItemType
           and CommodityCode = recid. IndexCommodityCode
           and SurveyScope = inSurveyScope
           and Version = '1';

exception
    when no_data_found then
        recwa. WeightPR1 := null;
        recwa. WeightSP2 := null;
        recwa. WeightIV3 := null;
        recwa. WeightIR4 := null;
        recwa. WeightCU5 := null;

```

```

                                recwa.WeightLP6 := null;
                                end;

-- Contribution Degree Calculation
                                recci.CD_PR1 := f_CtbDegreeCal(recid.IndexPR1, recidp.IndexPR1,
                                recwa.WeightPR1, recidpi.IndexPR1, recwat.WeightPR1);
                                recci.CD_SP2 := f_CtbDegreeCal(recid.IndexSP2, recidp.IndexSP2,
                                recwa.WeightSP2, recidpi.IndexSP2, recwat.WeightSP2);
                                recci.CD_IV3 := f_CtbDegreeCal(recid.IndexIV3, recidp.IndexIV3,
                                recwa.WeightIV3, recidpi.IndexIV3, recwat.WeightIV3);
                                recci.CD_IR4 := f_CtbDegreeCal(recid.IndexIR4, recidp.IndexIR4,
                                recwa.WeightIR4, recidpi.IndexIR4, recwat.WeightIR4);
                                recci.CD_CU5 := f_CtbDegreeCal(recid.IndexCU5, recidp.IndexCU5,
                                recwa.WeightCU5, recidpi.IndexCU5, recwat.WeightCU5);
                                recci.CD_LP6 := f_CtbDegreeCal(recid.IndexLP6, recidp.IndexLP6,
                                recwa.WeightLP6, recidpi.IndexLP6, recwat.WeightLP6);

-- Insert Contribution Table
                                Insert
                                into ContributionForIndustry (
                                ISIC,
                                ItemType,
                                CommodityCode,
                                Year,
                                Month,
                                SurveyScope,
                                Pre_Rev_mark,
                                ComparisonTarget,
                                Seq,
                                CD_PR1,
                                CD_SP2,
                                CD_IV3,
                                CD_IR4,
                                CD_CU5,
                                CD_LP6)
                                Values (recid.ISIC,
                                recid.ItemType,
                                recid.IndexCommodityCode,
                                inYear,
                                inMonth,
                                inSurveyScope,
                                inPre_Rev_mark,
                                inComparisonTarget,
                                inSeq,
                                recci.CD_PR1,
                                recci.CD_SP2,
                                recci.CD_IV3,
                                recci.CD_IR4,
                                recci.CD_CU5,
                                recci.CD_LP6);

                                end if;

-- Fetch Indices Table
                                fetch
                                into csrid
                                recid.ISIC, recid.ItemType, recid.IndexCommodityCode,
                                recid.IndexPR1, recid.IndexSP2, recid.IndexIV3,
                                recid.IndexIR4, recid.IndexCU5, recid.IndexLP6;

                                end loop;

                                close csrid;

-- Initialize Process
                                sOldISIC := null;

-- Contribution Cursor Open Fetch
                                open csrcli;
                                fetch csrcli
                                into recci.ISIC, recci.CD_PR1, recci.CD_SP2, recci.CD_IV3,
                                recci.CD_IR4, recci.CD_CU5, recci.CD_LP6;

-- Indices Cursor Fetch Looping
                                while csrcli%found loop
                                if sOldISIC = substr(recci.ISIC, 1, 4) then
                                null;
                                else

```

```

        sOldISIC := substr(recci. ISIC, 1, 4);

-- Get Total Contribution Degree
select sum(CD_PR1), sum(CD_SP2), sum(CD_IV3), sum(CD_IR4), sum(CD_CU
5), sum(CD_LP6)
into reccit. CD_PR1, reccit. CD_SP2, reccit. CD_IV3,
reccit. CD_IR4, reccit. CD_CU5, recci
t. CD_LP6
from ContributionForIndustry
where Seq = inSeq
and ISIC like substr(recci. ISIC, 1, 4) || '%'
and ComparisonTarget = inComparisonTarget;

end if;

-- Contribution Ratio Calculation
recci. CR_PR1 := f_CtbRatioCal(recci. CD_PR1, reccit. CD_PR1);
recci. CR_SP2 := f_CtbRatioCal(recci. CD_SP2, reccit. CD_SP2);
recci. CR_IV3 := f_CtbRatioCal(recci. CD_IV3, reccit. CD_IV3);
recci. CR_IR4 := f_CtbRatioCal(recci. CD_IR4, reccit. CD_IR4);
recci. CR_CU5 := f_CtbRatioCal(recci. CD_CU5, reccit. CD_CU5);
recci. CR_LP6 := f_CtbRatioCal(recci. CD_LP6, reccit. CD_LP6);

-- Update Contribution Table
update ContributionForIndustry
set CR_PR1 = recci. CR_PR1,
CR_SP2 = recci. CR_SP2,
CR_IV3 = recci. CR_IV3,
CR_IR4 = recci. CR_IR4,
CR_CU5 = recci. CR_CU5,
CR_LP6 = recci. CR_LP6
where current of csrcli;

-- Contribution Cursor Fetch
fetch csrcli
into recci. ISIC, recci. CD_PR1, recci. CD_SP2, recci. CD_IV3,
recci. CD_IR4, recci. CD_CU5, recci. CD_LP6;

end loop;

close csrcli;

end;

/* =====
Calculate Contribution for each Establishment
===== */
function FCalCtb (
    ppCurAV          in    number,
    ppPreAV           in    number,
    ppCurTtl          in    number,
    ppPreTtl          in    number,
    ppCurLink         in    number,
    ppPreLink         in    number,
    ppCurDeflator     in    number,
    ppPreDeflator     in    number) return number is

    nResult          number;
    nBalAV           number;
    nBalTtl          number;

BEGIN
-- DBMS_OUTPUT.PUT_LINE(' CurAV = ' || ppCurAV || ' PreAV = ' || ppPreAV);
-- DBMS_OUTPUT.PUT_LINE(' CurTtl = ' || ppCurTtl || ' PreTtl = ' || ppPreTtl);
-- DBMS_OUTPUT.PUT_LINE(' CurLink = ' || ppCurLink || ' PreLink = ' || ppPreLink);
-- DBMS_OUTPUT.PUT_LINE(' CurDef = ' || ppCurDeflator || ' PreDef = ' || ppPreDeflator);

    nBalAV := ppPreAV * ppPreLink / ppPreDeflator - ppCurAV * ppCurLink / ppCurDeflat
or;
    nBalTtl := ppPreTtl * ppPreLink / ppPreDeflator - ppCurTtl * ppCurLink / ppCurDef
lator;

    if nBalTtl = 0 then
        nResult := null;
        return nResult;
    end if;

    nResult := (nBalAV / nBalTtl) * 100;

```



```

        if      nResult = 0 then
            nResult := null;
        end if;

        return nResult;

END;

/* =====
   Contribution Calculation(Establishment by Commodity)
   ===== */
PROCEDURE p_EstInComm (
    inSeq                      IN NUMBER,
    inAggregationRange        IN Varchar2,
    inISIC                     IN Varchar2,
    inYear                     IN NUMBER,
    inMonth                    IN NUMBER,
    inPre_Rev_Mark             IN VARCHAR2,
    inSurveyScope              IN VARCHAR2,
    inComparisonTarget         IN VARCHAR2) IS

    ISIC_wk      ContributionForCommodity. ISIC%TYPE;
    Itemtype_wk  ContributionForCommodity. ItemType%TYPE;
    Com_wk       ContributionForCommodity. CommodityCode%TYPE;
    Reg_wk       ContributionForCommodity. RegistrationNo%TYPE;

    nPreMonth    NUMBER;
    nPreYear     NUMBER;

    sISIC2d      Varchar2(2);
    sISIC4d      Varchar2(4);

    sOldISIC     varchar2(6);
    sOldItemType varchar2(1);
    sOldCommodityCode varchar2(3);

    reclm        LinkMaster%rowtype;
    reclmp       LinkMaster%rowtype;
    recdf        DeflatorMaster%rowtype;
    recdfp       DeflatorMaster%rowtype;
    reccc        ContributionForCommodity%rowtype;
    recpr        PastRecord%rowtype;
    recprp       PastRecord%rowtype;
    recprs       PastRecord%rowtype;
    recprsp      PastRecord%rowtype;

CURSOR CsrCom IS
    SELECT CM. ISIC, CM. ItemType, CM. CommodityCode, EM. RegistrationNo
    FROM   CommodityMaster CM, EstablishmentMaster EM
    WHERE  CM. ISIC = EM. ISIC
           AND CM. ItemType in ('1', '4')
           AND EM. SurveyScope <= inSurveyScope
    order by CM. ISIC, CM. ItemType, CM. CommodityCode;

BEGIN
    -- DBMS_OUTPUT. ENABLE(600000);
    -- Previous Year or Month Get
    if      inComparisonTarget = '0' then
        if inMonth = 1 THEN
            nPreMonth := 12;
            nPreYear := inYear - 1;
        else
            nPreMonth := inMonth - 1;
            nPreYear := inYear;
        end if;
    else
        nPreMonth := inMonth;
        nPreYear := inYear - 1;
    end if;

    -- ISIC Work Edit
    sISIC2d := substr(inISIC, 1, 2);
    sISIC4d := substr(inISIC, 1, 4);

    -- Old Key Area Clear

```

```

sOldISIC := null;
sOldItemType := null;
sOldCommodityCode := null;

-- Open Cursor and Loop Start
OPEN CsrCom;
LOOP

-- Fetch and Exit
FETCH CsrCom INTO ISIC_wk, ItemType_wk, Com_wk, Reg_wk;
EXIT WHEN CsrCom%NOTFOUND;

-- Aggregation Range Checking
if (inAggregationRange = '1')
or (inAggregationRange = '2' and substr(ISIC_wk, 1, 2) = sISIC2d)
or (inAggregationRange = '3' and substr(ISIC_wk, 1, 4) = sISIC4d)
or (inAggregationRange = '4' and ISIC_wk = inISIC) then

-- Compair Key
if sOldISIC = ISIC_wk
and sOldItemType = ItemType_wk
and sOldCommodityCode = Com_wk then
null;
else

-- Set Old Key
sOldISIC := ISIC_wk;
sOldItemType := ItemType_wk;
sOldCommodityCode := Com_wk;

-- Get Link Coefficient Data
begin
select *
into reclm
from LinkMaster
where ISIC
= ISIC_wk
and Year
= inYear
and Month
= inMonth
and ItemType = 1
and CommodityCode = Com_wk
and SurveyScope = inSurveyS
and Version
= '1';

select *
into reclmp
from LinkMaster
where ISIC
= ISIC_wk
and Year
= nPreYear
and Month
= nPreMonth
and ItemType = 1
and CommodityCode = Com_wk
and SurveyScope = inSurveyS
and Version
= '1';

exception
when no_data_found then
reclm. ProductionQty := 0;
reclm. ShipmentQty := 0;
reclm. ME_Inventory := 0;
reclm. ShipmentValue := 0;
reclm. RwmT_MEInventory := 0;
reclmp. ProductionQty := 0;
reclmp. ShipmentQty := 0;

```

```

recimp.ME_Inventory := 0;
recimp.ShipmentValue := 0;
recimp.RwMt_MEInventory := 0;

end;

-- Deflator Master Select
begin
select *
into recdf
from DeflatorMaster
where ISIC = i
and Year = inYear
and Month = i
and ItemType = itemtype_
and CommodityCode = Com_wk
and SurveyScope = inSurveyScope
and Version = '1';

select *
into recdfp
from DeflatorMaster
where ISIC = i
and Year = nPreYear
and Month = n
and ItemType = itemtype_
and CommodityCode = Com_wk
and SurveyScope = inSurveyScope
and Version = '1';

exception
when no_data_found then
recdf.ProductionQty := 1;
recdf.ShipmentQty := 1;
recdf.ME_Inventory := 1;
recdf.Capacity := 1;
recdf.RwMt_MEInventory := 1;
recdfp.ProductionQty := 1;
recdfp.ShipmentQty := 1;
recdfp.ME_Inventory := 1;
recdfp.Capacity := 1;
recdfp.RwMt_MEInventory := 1;

end;

-- Summary Of Commodity Level
if ItemType_wk = '1' then

-- This Month Total Past Record Select (Item Type 1)
SELECT SUM(PR. ProductionQTY), SUM(PR. DomesticSale
s), SUM(PR. Export),
SUM(PR. ME_Inventory)
INTO recprs. ProductionQTY, recprs. Domest
icSales, recprs. Export,
recprs. ME_Inventory
FROM PastRecord PR, EstablishmentMaster
WHERE PR. ISIC = ISIC_wk
AND PR. Year = inYear
AND PR. Month = inMonth
AND PR. ItemType = '1'
AND PR. CommodityCode = Com_wk
AND PR. Pre_Rev_Mark = inPre_Rev_Mark
AND PR. ISIC = EM. ISIC
AND PR. RegistrationNo = EM. Registration
AND EM. SurveyScope <= inSurveyScope;

No

```

```

-- This Month Total Past Record Select(Item Type 2)
SELECT SUM(PR. ShipmentValue)
INTO recprs. ShipmentValue
FROM PastRecord PR, EstablishmentMaster EM
WHERE PR. ISIC = ISIC_wk
      AND PR. Year = inYear
      AND PR. Month = inMonth
      AND PR. ItemType = '2'
      AND PR. CommodityCode = Com_wk
      AND PR. Pre_Rev_Mark = inPre_Rev_Mark
      AND PR. ISIC = EM. ISIC
      AND PR. RegistrationNo = EM. RegistrationNo
      AND EM. SurveyScope <= inSurveyScope;

-- Pre Month Total Past Record Select(Item Type 1)
SELECT SUM(PR. ProductionQTY), SUM(PR. DomesticSale
s), SUM(PR. Export),
      SUM(PR. ME_Inventory)
INTO recprsp. ProductionQTY, recprsp. Dome
      recprsp. ME_Inventory
FROM PastRecord PR, EstablishmentMaster EM
WHERE PR. ISIC = ISIC_wk
      AND PR. Year = nPreYear
      AND PR. Month = nPreMonth
      AND PR. ItemType = '1'
      AND PR. CommodityCode = Com_wk
      AND PR. Pre_Rev_Mark = '2'
      AND PR. ISIC = EM. ISIC
      AND PR. RegistrationNo = EM. RegistrationNo
      AND EM. SurveyScope <= inSurveyScope;

-- Pre Month Total Past Record Select(Item Type 2)
SELECT SUM(PR. ShipmentValue)
INTO recprsp. ShipmentValue
FROM PastRecord PR, EstablishmentMaster EM
WHERE PR. ISIC = ISIC_wk
      AND PR. Year = nPreYear
      AND PR. Month = nPreMonth
      AND PR. ItemType = '2'
      AND PR. CommodityCode = Com_wk
      AND PR. Pre_Rev_Mark = '2'
      AND PR. ISIC = EM. ISIC
      AND PR. RegistrationNo = EM. RegistrationNo
      AND EM. SurveyScope <= inSurveyScope;

elseif Itemtype_wk = '4' then
-- This Month Total Past Record Select(Item Type 4)
SELECT SUM(PR. RwmT_MEInventory)
INTO recprs. RwmT_MEInventory
FROM PastRecord PR, EstablishmentMaster EM
WHERE PR. ISIC = ISIC_wk
      AND PR. Year = inYear
      AND PR. Month = inMonth
      AND PR. ItemType = '4'
      AND PR. CommodityCode = Com_wk
      AND PR. Pre_Rev_Mark = inPre_Rev_Mark
      AND PR. ISIC = EM. ISIC
      AND PR. RegistrationNo = EM. Registratio
nNo
      AND EM. SurveyScope <= inSurveyScope;

-- Pre Month Total Past Record Select(Item Type 4)
SELECT SUM(PR. RwmT_MEInventory)
INTO recprsp. RwmT_MEInventory
FROM PastRecord PR, EstablishmentMaster EM
WHERE PR. ISIC = ISIC_wk
      AND PR. Year = nPreYear
      AND PR. Month = nPreMonth
      AND PR. ItemType = '4'
      AND PR. CommodityCode = Com_wk
      AND PR. Pre_Rev_Mark = '2'
      AND PR. ISIC = EM. ISIC
      AND PR. RegistrationNo = EM. Registratio
nNo
      AND EM. SurveyScope <= inSurveyScope;

end if;

```

```

end if;

if Itemtype_wk = '1' then
-- Select This Month Past Record(Item Type 1)
begin
SELECT ProductionQTY, DomesticSales, Export, ME_Inve
ntory INTO recpr. ProductionQTY, recpr. Domestic
Sales, recpr. Export, recpr. ME_Inventory
FROM PastRecord
WHERE ISIC = ISIC_wk
AND Year = inYear
AND Month = inMonth
AND RegistrationNo = Reg_wk
AND ItemType = '1'
AND CommodityCode = Com_wk
AND Pre_Rev_Mark = inPre_Rev_Mark;

recpr. ProductionQTY := nvl(recpr. ProductionQT
Y, 0);
recpr. DomesticSales := nvl(recpr. DomesticSales, 0);
recpr. Export := nvl(recpr. Export, 0);
recpr. ME_Inventory := nvl(recpr. ME_Inventory,
0);

exception
when no_data_found then
recpr. ProductionQTY := 0;
recpr. DomesticSales := 0;
recpr. Export := 0;
recpr. ME_Inventory := 0;

END;

-- Select Pre Month Past Record(Item Type 1)
begin
SELECT ProductionQTY, DomesticSales, Export, ME_Inve
ntory INTO recprp. ProductionQTY, recprp. Domest
icSales, recprp. Export, recprp. ME_Inventory
FROM PastRecord
WHERE ISIC = ISIC_wk
AND Year = nPreYear
AND Month = nPreMonth
AND RegistrationNo = Reg_wk
AND ItemType = '1'
AND CommodityCode = Com_wk
AND Pre_Rev_Mark = '2';

recprp. ProductionQTY := nvl(recprp. ProductionQT
Y, 0);
recprp. DomesticSales := nvl(recprp. DomesticSale
s, 0);
recprp. Export := nvl(recprp. Export, 0);
recprp. ME_Inventory := nvl(recprp. ME_In
ventory, 0);

exception
when no_data_found then
recprp. ProductionQTY := 0;
recprp. DomesticSales := 0;
recprp. Export := 0;
recprp. ME_Inventory := 0;

END;

-- Select This Month Past Record(Item Type 2)
begin
SELECT ShipmentValue
INTO recpr. ShipmentValue
FROM PastRecord
WHERE ISIC = ISIC_wk
AND Year = inYear
AND Month = inMonth

```

```

AND RegistrationNo = Reg_wk
AND ItemType = '2'
AND CommodityCode = Com_wk
AND Pre_Rev_Mark = inPre_Rev_Mark;

recpr. ShipmentValue := nvl(recpr. ShipmentValue, 0);

exception
when no_data_found then
recpr. ShipmentValue := 0;
END;

-- Select Pre Month Past Record(Item Type 2)
begin
SELECT ShipmentValue
INTO recpr. ShipmentValue
FROM PastRecord
WHERE ISIC = ISIC_wk
AND Year = nPreYear
AND Month = nPreMonth
AND RegistrationNo = Reg_wk
AND ItemType = '2'
AND CommodityCode = Com_wk
AND Pre_Rev_Mark = '2';

recpr. ShipmentValue := nvl(recpr. ShipmentValue,
0);

exception
when no_data_found then
recpr. ShipmentValue := 0;
END;

-- Calculation
reccc. CR_Production := FCalCtb (recpr. ProductionQTY, recpr. Pro
ductionQTY,
recprs. Prod
uctionQTY, recprsp. ProductionQTY,
reclm. Produ
ctionQty, reclmp. ProductionQty,
recdf. Produ
ctionQty, recdfp. ProductionQty);
reccc. CR_ShipmentQty := FCalCtb (recpr. DomesticSales + recpr. Ex
port,
recpr. Dome
sticSales + recprp. Export,
nvl(recprs.
DomesticSales, 0) + nvl(recprsp. Export, 0),
nvl(recprs
p. DomesticSales, 0) + nvl(recprsp. Export, 0),
reclm. Shipm
entQty, reclmp. ShipmentQty,
recdf. Shipm
entQty, recdfp. ShipmentQty);
reccc. CR_MEInventory := FCalCtb (recpr. ME_Inventory, recpr. ME_I
nventory,
recprs. ME_I
nventory, recprsp. ME_Inventory,
reclm. ME_In
ventory, reclmp. ME_Inventory,
recdf. ME_In
ventory, recdfp. ME_Inventory);
reccc. CR_ShipmentVal := FCalCtb (recpr. ShipmentValue, recpr. Shi
pmentValue,
recprs. Ship

```

```

mentValue, recprsp. ShipmentValue,

entValue, reclmp. ShipmentValue, 1, 1);

--Insert Table(Item Type 1)
INSERT
      INTO ContributionForCommodity(
      ISIC, ItemType, CommodityCode, RegistrationNo, Year, Month,
      SurveyScope, Pre_Rev_Mark, ComparisonTarget, Seq,
      CR_Production, CR_ShipmentQty, CR_MEInventory, CR_ShipmentV
al)
      VALUES (
      ISIC_wk, '1', Com_wk, Reg_wk, inYear, inMonth,
      inSurveyScope, inPre_Rev_Mark, inComparisonTarget, inSeq,
      reccc. CR_Production, reccc. CR_ShipmentQty,
      reccc. CR_MEInventory, reccc. CR_ShipmentVal);

      elsif Itemtype_wk = '4' THEN
-- Select This Month Past Record(Item Type 4)
      begin
            SELECT RWMt_MEInventory
            INTO recpr. RWMt_MEInventory
            FROM PastRecord
            WHERE ISIC = ISIC_wk
            AND Year = inYear
            AND Month = inMonth
            AND RegistrationNo = Reg_wk
            AND ItemType = '4'
            AND CommodityCode = Com_wk
            AND Pre_Rev_Mark = inPre_Rev_Mark;

            recpr. RWMt_MEInventory := nvl(recpr. RWMt_MEInventory, 0);

            exception
            when no_data_found then
            recpr. RWMt_MEInventory := 0;

            END;

-- Select Pre Month Past Record(Item Type 4)
      begin
            SELECT RWMt_MEInventory
            INTO recprp. RWMt_MEInventory
            FROM PastRecord
            WHERE ISIC = ISIC_wk
            AND Year = nPreYear
            AND Month = nPreMonth
            AND RegistrationNo = Reg_wk
            AND ItemType = '4'
            AND CommodityCode = Com_wk
            AND Pre_Rev_Mark = '2';

            recprp. RWMt_MEInventory := nvl(recprp. RWMt_MEInventory, 0);

            exception
            when no_data_found then
            recprp. RWMt_MEInventory := 0;

            END;

-- Calculation
-- DBMS_OUTPUT.PUT_LINE(recpr. RWMt_MEInventory || recprp. RWMt_MEInventory
--
recprs. RWMt_MEInventory || recprsp. RWMt_MEInventory);
      reccc. CR_RawMaterial := FCalCtb (recpr. RWMt_MEInventory, recprp.
RWMt_MEInventory,
      recprs. RWMt
_MEInventory, recprsp. RWMt_MEInventory,
      reclm. RWMt_
MEInventory, reclmp. RWMt_MEInventory,
      recdf. RWMt_
MEInventory, recdfp. RWMt_MEInventory);

```

```

--Insert Table(Item Type 4)
                                INSERT
nth,                                INTO    ContributionForCommodity(
                                ISIC, ItemType, CommodityCode, RegistrationNo, Year, Mo
                                SurveyScope, Pre_Rev_Mark, ComparisonTarget, Seq,
                                CR_RawMaterial)
                                VALUES(
Seq,                                ISIC_wk, '4', Com_wk, Reg_wk, inYear, inMonth,
                                inSurveyScope, inPre_Rev_Mark, inComparisonTarget, in
                                reccc.CR_RawMaterial);

                                END IF;

                                END IF;

                                END LOOP;

                                CLOSE CsrCom;

                                END p_EstInComm;

                                end CtbCal;
                                /
                                show errors
                                /

```



```

/* =====
Package Name GetSeq
Create Date 1999/10/14
By: Rattana J.
Last Update 1999/11/04
By: K. Shibamoto@JICA STUDY TEAM
File name : @c:\back\GetSeq.sql
Call string : DECLARE AA NUMBER;
              BEGIN GetSeq.SeqNo(:AA); END;
===== */
CREATE OR REPLACE PACKAGE GetSeq IS

    PROCEDURE SeqNo (
        pSeqMax      OUT SeqControl.SeqMax%TYPE);

    PROCEDURE ClearTemp (
        pSeq          IN NUMBER);

END;

/
show errors
/

CREATE OR REPLACE PACKAGE BODY GetSeq IS

/* =====
Main of Program
===== */
    PROCEDURE SeqNo (
        pSeqMax      OUT SeqControl.SeqMax%TYPE)

    IS
        CURSOR Csr IS
            SELECT SeqMax
            FROM SeqControl
            WHERE OutputID = '00'
            FOR UPDATE; -- LOCK THE FILE !!
        Rec Csr%ROWTYPE;
    BEGIN
        -- Select SeqMax from table
        OPEN Csr;
        FETCH Csr INTO Rec;

        -- Set the new value for SeqMax
        --DBMS_OUTPUT.PUT_LINE('before SeqMax=' || pSeqMax);
        IF Rec.SeqMax >= 1000 THEN
            pSeqMax := 0;
        ELSE
            pSeqMax := Rec.SeqMax + 1;
        END IF;
        -- Update the new SeqMax in table
        UPDATE SeqControl
        SET SeqMax = pSeqMax
        WHERE CURRENT OF Csr;

        CLOSE Csr;
        COMMIT WORK;
        --DBMS_OUTPUT.PUT_LINE('After SeqMax=' || pSeqMax);
    END; -- end of Main Procedure

/* =====
Clear temporary tables
===== */
    PROCEDURE ClearTemp (
        pSeq          IN NUMBER)

    IS
    BEGIN
        delete from ContributionForAll1 where Seq = pSeq;
        delete from ContributionForAll2 where Seq = pSeq;
        delete from ContributionForIndustry where Seq = pSeq;
        delete from ContributionForCommodity where Seq = pSeq;
        delete from IndexList where Seq = pSeq;
        delete from TimeFigures where Seq = pSeq;
        delete from CollectionRate where Seq = pSeq;
        delete from AnnualCollectionStatus where Seq = pSeq;
    
```

```
        delete from CPMYRawEst where Seq = pSeq;  
        delete from CPMYRawISIC where Seq = pSeq;  
    END;  
END; -- end of package body  
/  
show errors  
/
```

```

-- =====
-- Package Name : Growth Rate Calculation
-- Package ID   : GRCal
-- Create Date  : 9/Nov/1999
-- Replace Date : xx/xx/xxxx
-- Author       : Nakamura
--
-- File        : @c:%jica%GRCal;
-- Test
9,2,'1','2','0'); END;
-- Test
D;
-- Test
END;
-- Test
-- =====

```

create or replace package GRCal is

```

procedure p_GRQtyCal (
    inSeq                      in      number,
    inAggregationRange        in      varchar2,
    inISIC                    in      varchar2,
    inYear                    in      number,
    inMonth                   in      number,
    inSurveyScope              in      varchar2,
    inPre_Rev_Mark             in      varchar2,
    inComparisonTarget         in      varchar2);

```

```

procedure p_GREleIndustry (
    inYear                    in      number,
    inMonth                   in      number,
    inPre_Rev_Mark            in      varchar2);

```

```

procedure p_GREleComm (
    inYear                    in      number,
    inMonth                   in      number,
    inPre_Rev_Mark            in      varchar2);

```

```

procedure p_GRIndices(
    pYear                     in number,
    pMonth                    in number,
    pPreRev                   in varchar2);

```

```

end GRCal;
/
show errors
/

```

create or replace package body GRCal is

-- Growth Rate Qty Table Insert

```

procedure p_GRQtyIns (
    inISIC                    in      varchar2,
    inItemType                in      varchar2,
    inCommodityCode           in      varchar2,
    inYear                    in      number,
    inMonth                   in      number,
    inSurveyScope              in      varchar2,
    inPre_Rev_Mark             in      varchar2,
    inComparisonTarget         in      varchar2,
    inSeq                      in      number,
    inGR_Production            in      number,
    inGR_ShipmentQty           in      number,
    inGR_MEInventory           in      number,
    inGR_ShipmentVal           in      number,
    inGR_RawMaterial           in      number);

```

```

begin
    Insert
        into      GrowthRateQty (
                    ISIC,
                    ItemType,
                    CommodityCode,
                    Year,
                    Month,
                    SurveyScope,

```

```

Pre_Rev_mark,
ComparisonTarget,
Seq,
GR_Production,
GR_ShipmentQty,
GR_MEInventory,
GR_ShipmentVal,
GR_RawMaterial)

Values (inISIC,

inItemType,
inCommodityCode,
inYear,
inMonth,
inSurveyScope,
inPre_Rev_mark,
inComparisonTarget,
inSeq,
inGR_Production,
inGR_ShipmentQty,
inGR_MEInventory,
inGR_ShipmentVal,
inGR_RawMaterial);

end;

-----
-- Growth Rate Calculation
-----
function f_GrowthRate (
    inAVCurr          in    number,
    inAVPre           in    number,
    inLKCurr          in    number,
    inLKPre           in    number,
    inDFCurr          in    number,
    inDFPre           in    number) ret
urn number is
    nGrowthRate      number;

begin
    if      inAVPre = 0
    or      inLKPre = 0 then
        nGrowthRate := null;
        return nGrowthRate;
    end if;

    nGrowthRate := ((inAVCurr * inLKCurr / inDFCurr) - (inAVPre * inLKPre / inDFPre))
/
(inAVPre * inLKPre /
inDFPre) * 100;

    if      nGrowthRate = 0 then
        nGrowthRate := null;
    end if;

    return nGrowthRate;

end;

-----
-- Growth Rate Qty Calculation
-----
procedure p_GRQtyCal (
    inSeq              in    number,
    inAggregationRange in    varchar2,
    inISIC             in    varchar2,
    inYear             in    number,
    inMonth            in    number,
    inSurveyScope      in    varchar2,
    inPre_Rev_Mark     in    varchar2,
    inComparisonTarget in    varchar2) is

-- Record Area Define
reccm CommodityMaster%rowtype;
reclm LinkMaster%rowtype;
reclmp LinkMaster%rowtype;
recdf DeflatorMaster%rowtype;

```

```

recdfp DeflatorMaster%rowtype;
recpr PastRecord%rowtype;
recprp PastRecord%rowtype;
recgq GrowthRateQTY%rowtype;

-- Work Area
nPY number;
nPM number;

sISIC2d Varchar2(2);
sISIC4d Varchar2(4);

-- CommodityMaster Cursor
Cursor csrccm is
select ISIC, ItemType, CommodityCode
from CommodityMaster
where ItemType in('1','4');

Begin
-- DBMS_OUTPUT.ENABLE(60000);
-- DBMS_OUTPUT.PUT_LINE('Start p_ActualValue ' || to_char(sysdate,'HH24:MI:SS'));
-- Get Pre Year and Month
if inComparisonTarget = '0' then
if inMonth = 1 then
nPY := inYear - 1;
nPM := 12;
else
nPY := inYear;
nPM := inMonth - 1;
end if;
else
nPY := inYear - 1;
nPM := inMonth;
end if;

-- For Grouping Range Check
sISIC2d := substr(inISIC, 1, 2);
sISIC4d := substr(inISIC, 1, 4);

-- Commodity Master Cursor Open and Fetch
open csrccm;
fetch csrccm
into reccm.ISIC, reccm.ItemType, reccm.CommodityCode;
while csrccm%found loop

-- Grouping Range Check
if (inAggregationRange = '1')
or (inAggregationRange = '2' and substr(reccm.ISIC, 1, 2) = sISIC2d)
or (inAggregationRange = '3' and substr(reccm.ISIC, 1, 4) = sISIC4d)
or (inAggregationRange = '4' and reccm.ISIC = inISIC) then

-- Get LinkMaster Coefficient(This Month and Pre Month)
begin
select *
into reclm
from LinkMaster
where ISIC = r
eccc.ISIC and Year = inYear
and Month = nMonth
and ItemType = reccm.ItemType
and CommodityCode = reccm.CommodityCode
and SurveyScope = inSurveyScope
and Version = '1';

select *
into reclmp
from LinkMaster
where ISIC = r
eccc.ISIC and Year = nPY

```

```

and      Month              = n
PM
and ItemType              = reccm.lte
mType
and      CommodityCode    = reccm.CommodityCo
de
and SurveyScope          = inSurveyScope
and      Version
1';

exception
when no_data_found then
    reclm.ProductionQty := 0;
    reclm.ShipmentQty := 0;
    reclm.ME_Inventory := 0;
    reclm.ShipmentValue := 0;
    reclm.RwMt_MEInventory := 0;
    reclm.ProductionQty := 0;
    reclm.ShipmentQty := 0;
    reclm.ME_Inventory := 0;
    reclm.ShipmentValue := 0;
    reclm.RwMt_MEInventory := 0;
end;

-- Deflator Master Select
begin
    select *
    into   recdf
    from   DeflatorMaster
    where  ISIC              = r
    and    Year
    and    Month              = i
    and    ItemType          = reccm.lte
    and    CommodityCode    = reccm.CommodityCo
    and    SurveyScope      = inSurveyScope
    and    Version
    eccm.ISIC
    = inYear
    nMonth
    mType
    de
    1';

    select *
    into   recdfp
    from   DeflatorMaster
    where  ISIC              = r
    and    Year
    and    Month              = n
    and    ItemType          = reccm.lte
    and    CommodityCode    = reccm.CommodityCo
    and    SurveyScope      = inSurveyScope
    and    Version
    eccm.ISIC
    = nPY
    PM
    mType
    de
    1';

exception
when no_data_found then
    recdf.ProductionQty := 1;
    recdf.ShipmentQty := 1;
    recdf.ME_Inventory := 1;
    recdf.Capacity := 1;
    recdf.RwMt_MEInventory := 1;
    recdfp.ProductionQty := 1;
    recdfp.ShipmentQty := 1;
    recdfp.ME_Inventory := 1;
    recdfp.Capacity := 1;
    recdfp.RwMt_MEInventory := 1;
end;

if reccm.ItemType = '1' then
-- Get Past Record(This Month, Item Type 1)

```

```

sum(ME_Inventory)          select sum(ProductionQty), sum(DomesticSales), sum(Export),
cpr. Export, recpr. ME_Inventory      into   recpr. ProductionQty, recpr. DomesticSales, rec
eccm. ISIC                    from   VW_PastRecordScope
                                where  ISIC                                     = r
                                and    Year
                                and    Month                                 = i
                                and ItemType                               = '1'
                                and    CommodityCode = reccm. CommodityCo
                                and    Pre_Rev_Mark = inPre_Rev_mark
                                and    SurveyScope  <= inSurveyScope;

-- Get Past Record(Pre Month and Year, Item Type 1)
sum(ME_Inventory)          select sum(ProductionQty), sum(DomesticSales), sum(Export),
recprp. Export, recprp. ME_Inventory      into   recprp. ProductionQty, recprp. DomesticSales,
eccm. ISIC                    from   VW_PastRecordScope
                                where  ISIC                                     = r
                                and    Year
                                and    Month                                 = n
                                and ItemType                               = '1'
                                and    CommodityCode = reccm. CommodityCo
                                and    Pre_Rev_Mark = '2'
                                and    SurveyScope  <= inSurveyScope;

-- Get Past Record(This Month, Item Type 2)
eccm. ISIC                    select sum(ShipmentValue)
                                into   recpr. ShipmentValue
                                from   VW_PastRecordScope
                                where  ISIC                                     = r
                                and    Year
                                and    Month                                 = i
                                and ItemType                               = '2'
                                and    CommodityCode = reccm. CommodityCo
                                and    Pre_Rev_Mark = inPre_Rev_mark
                                and    SurveyScope  <= inSurveyScope;

-- Get Past Record(Pre Month and Year, Item Type 2)
eccm. ISIC                    select sum(ShipmentValue)
                                into   recprp. ShipmentValue
                                from   VW_PastRecordScope
                                where  ISIC                                     = r
                                and    Year
                                and    Month                                 = n
                                and ItemType                               = '2'
                                and    CommodityCode = reccm. CommodityCo
                                and    Pre_Rev_Mark = '2'
                                and    SurveyScope  <= inSurveyScope;

-- Growth Rate Calculation
recgq. GR_Production      := f_GrowthRate(recpr. ProductionQty,
y, recprp. ProductionQty,

recim. ProductionQty, reclmp. ProductionQty,

recdf. ProductionQty, recdfp. ProductionQty);

```

```

        if      recpr.DomesticSales is null
        and recpr.Export is null then
            null;
        else
            recpr.DomesticSales := nvl(recpr.DomesticSale
s, 0);
            recpr.Export :=
nvl(recpr.Export, 0);
        end if;
        if      recprp.DomesticSales is null
        and recprp.Export is null then
            null;
        else
            recprp.DomesticSales := nvl(recprp.DomesticSale
s, 0);
            recprp.Export := nvl(recp
rp.Export, 0);
        end if;
        recgq.GR_ShipmentQty := f_GrowthRate(recpr.DomesticSales
+ recpr.Export,
recprp.DomesticSales + recprp.Export,
recclm.ShipmentQty, reclmp.ShipmentQty,
recdf.ShipmentQty, recdfp.ShipmentQty);
        recgq.GR_MEInventory := f_GrowthRate(recpr.ME_Inventor
y, recprp.ME_Inventory,
recclm.ME_Inventory, reclmp.ME_Inventory,
recdf.ME_Inventory, recdfp.ME_Inventory);
        recgq.GR_ShipmentVal := f_GrowthRate(recpr.ShipmentValu
e, recprp.ShipmentValue,
recclm.ShipmentValue, reclmp.ShipmentValue,
1, 1);
-- Insert Growth Rate Qty Table
p_GRQtyIns (reccm.ISIC, reccm.ItemType, reccm.CommodityCode,
inYear, inMonth,
pe, inPre_Rev_mark, inComparisonTarget, inSeq,
duction, recgq.GR_ShipmentQty,
Inventory, recgq.GR_ShipmentVal, null);
-- Get Past Record(This Month, Item Type 4)
        elsif reccm.ItemType = '4' then
            select sum(RwMt_MEInventory)
            into   recpr.RwMt_MEInventory
            from   VW_PastRecordScope
            where  ISIC
            eccm.ISIC
            and   Year
            = inYear
            and   Month
            nMonth
            and ItemType
            and CommodityCode = reccm.CommodityCo
            de
            and Pre_Rev_Mark = inPre_Rev_mark
            and SurveyScope  <= inSurveyScope;
-- Get Past Record(Pre Month and Year, Item Type 4)
            select sum(RwMt_MEInventory)
            into   recprp.RwMt_MEInventory

```



```

                                from VW_PastRecordScope
                                where ISIC = r
eccm. ISIC

                                and Year
                                = nPY
                                and Month = n
PM
                                and ItemType = '4'
                                and CommodityCode = reccm.CommodityCo
de
                                and Pre_Rev_Mark = '2'
                                and SurveyScope <= inSurveyScope;

-- Growth Rate Calculation
recgq. GR_RawMaterial := f_GrowthRate(recpr. RWMt_MEInven
tory, recprp. RWMt_MEInventory,

                                reclm. RWMt_MEInventory, reclmp. RWMt_MEInventory,

                                recdf. RWMt_MEInventory, recdfp. RWMt_MEInventory);

                                p_GRQtyIns (reccm. ISIC, reccm. ItemType, reccm. CommodityCode,
inYear, inMonth,
                                inSurveySco
pe, inPre_Rev_mark, inComparisonTarget, inSeq,
                                null, null, n
ull, null, recgq. GR_RawMaterial);

                                end if;
                                end if;

-- Fetch Indices Table
                                fetch csrccm
                                into reccm. ISIC, reccm. ItemType, reccm. CommodityCode;

                                end loop;
                                close csrccm;

end;

-----
-- Growth Rate Of Ratio Index Elements Calculation By Commodity.
-----
procedure p_GREleComm (
    inYear          in number,
    inMonth          in number,
    inPre_Rev_Mark  in varchar2) is

-- Record Area Define
    recgr GrowthRate%rowtype;
    reclm LinkMaster%rowtype;
    reclmp LinkMaster%rowtype;
    recdf DeflatorMaster%rowtype;
    recdfp DeflatorMaster%rowtype;
    recpr PastRecord%rowtype;
    recprp PastRecord%rowtype;

-- Work Area
    nPM number;
    nPY number;

-- Growth Rate Table Cursor
    Cursor csgr is
        select *
        from GrowthRate
        where AggregationRange = '5'
              and ItemType in('1','6')
              and Year = inYear
              and Month = inMonth
              and Pre_Rev_Mark = inPre_Rev_Mark
        for update;

Begin

```

```

DBMS_OUTPUT.ENABLE(60000);
open   csrgr;
fetch  csrgr into   recgr;
while  csrgr%found loop

-- Get Pre Year and Month
if      recgr.ComparisonTarget = '0' then
if      inMonth = 1 then
nPY     := inYear - 1;
nPM     := 12;
else
nPY     := inYear;
nPM     := inMonth - 1;
end if;
else
nPY     := inYear - 1;
nPM     := inMonth;
end if;

-- Get LinkMaster Coefficient(This Month and Pre Month)
begin
select *
into   reclm
from   LinkMaster
where  ISIC              = recgr.ISIC
      and Year           = i
nYear
      and Month          = inMonth
      and ItemType       = recgr.ItemType
      and CommodityCode  = recgr.IndexCommodityCode
      and SurveyScope    = recgr.SurveyScope
      and Version        = '1';

select *
into   reclmp
from   LinkMaster
where  ISIC              = recgr.ISIC
      and Year           = n
PY
      and Month          = nPM
      and ItemType       = recgr.ItemType
      and CommodityCode  = recgr.IndexCommodityCode
      and SurveyScope    = recgr.SurveyScope
      and Version        = '1';

exception
when no_data_found then
reclm.ProductionQty      := 0;
reclm.ShipmentQty       := 0;
reclm.ME_Inventory      := 0;
reclm.Capacity          := 0;
reclmp.ProductionQty    := 0;
reclmp.ShipmentQty      := 0;
reclmp.ME_Inventory     := 0;
reclmp.Capacity         := 0;
end;

-- Select Deflator Master
begin
select *
into   recdf
from   DeflatorMaster
where  ISIC              = recgr.ISIC
      and Year           = i
nYear
      and Month          = inMonth
      and ItemType       = recgr.ItemType
      and CommodityCode  = recgr.IndexCommodityCode
      and SurveyScope    = recgr.SurveyScope
      and Version        = '1';

select *
into   recdfp
from   DeflatorMaster
where  ISIC              = recgr.ISIC
      and Year           = n
PY

```

```

and      Month              = nPM
and ItemType                = recgr.ItemType
and      CommodityCode      = recgr.IndexCommodityCode
and SurveyScope             = recgr.SurveyScope
and      Version            = '1';

exception
when no_data_found then
    recdf.ProductionQty      := 1;
    recdf.ShipmentQty       := 1;
    recdf.ME_Inventory       := 1;
    recdf.Capacity          := 1;
    recdf.RwMt_MEInventory  := 1;
    recdf.ProductionQty      := 1;
    recdf.ShipmentQty       := 1;
    recdf.ME_Inventory       := 1;
    recdf.Capacity          := 1;
    recdf.RwMt_MEInventory  := 1;
end;

if      recgr.ItemType = '1' then
-- Get Past Record(This Month, Item Type 1)
select  sum(DomesticSales), sum(Export), sum(ME_Inventory)
into    recpr.DomesticSales, recpr.Export, recpr.ME_Inventory
from    VW_PastRecordScope
where   ISIC              = recgr.ISIC
and     Year              = i
nYear
and     Month              = inMonth
and ItemType                = '1'
and     CommodityCode      = recgr.IndexCommodityCode
and     Pre_Rev_Mark       = inPre_Rev_mark
and     SurveyScope        <= recgr.SurveyScope;

-- Get Past Record(Pre Month and Year, Item Type 1)
select  sum(DomesticSales), sum(Export), sum(ME_Inventory)
into    recprp.DomesticSales, recprp.Export, recprp.ME_Inven
tory
from    VW_PastRecordScope
where   ISIC              = recgr.ISIC
and     Year              = n
PY
and     Month              = nPM
and ItemType                = '1'
and     CommodityCode      = recgr.IndexCommodityCode
and     Pre_Rev_Mark       = '2'
and     SurveyScope        <= recgr.SurveyScope;

-- Growth Rate Calculation
recgr.GR_InventoryQty_IR      := f_GrowthRate(recpr.ME_Inventory
y, recprp.ME_Inventory,

recld.ME_Inventory, reclmp.ME_Inventory,

recdf.ME_Inventory, recdfp.ME_Inventory);

if      recpr.DomesticSales is null
and recpr.Export is null then
    null;
else
    recpr.DomesticSales := nvl(recpr.DomesticSales, 0);
    recpr.Export := nvl(recpr.Export, 0);
end if;
if      recprp.DomesticSales is null
and recprp.Export is null then
    null;
else
    recprp.DomesticSales := nvl(recprp.DomesticSales, 0);
    recprp.Export := nvl(recprp.Export, 0);
end if;
recgr.GR_ShipmentQty_IR      := f_GrowthRate(recpr.DomesticSales
+ recpr.Export,

```

```

recprp.DomesticSales + recprp.Export,

reclm.ShipmentQty, reclmp.ShipmentQty,

recdf.ShipmentQty, recdfp.ShipmentQty);
recgr.GR_ProductionQty_CU := null;
recgr.GR_Capacity_CU := null;

elseif recgr.ItemType = '6' then
-- Get Past Record(This Month, Item Type 6)
select sum(Capacity)
into recpr.Capacity
from VW_PastRecordScope
where ISIC = recgr.ISIC
and Year = i
nYear
and Month = inMonth
and ItemType = '6'
and CommodityCode = recgr.IndexCommodityCode
and Pre_Rev_Mark = inPre_Rev_mark
and SurveyScope <= recgr.SurveyScope;

-- Get Past Record(Pre Month and Year, Item Type 4)
select sum(Capacity)
into recprp.Capacity
from VW_PastRecordScope
where ISIC = recgr.ISIC
and Year = n
PY
and Month = nPM
and ItemType = '6'
and CommodityCode = recgr.IndexCommodityCode
and Pre_Rev_Mark = '2'
and SurveyScope <= recgr.SurveyScope;

-- Get Production Qty(This Month)
select sum(PastRecord.ProductionQty * LinkMaster.ProductionQty
/ DeflatorMaster.P
roductionQty)
into recpr.ProductionQty
from PastRecord, CommodityMaster, EstablishmentMaster, Lin
kMaster, DeflatorMaster
where PastRecord.ISIC
= CommodityMaster.ISIC
and PastRecord.ItemType
= CommodityMaster.ItemType
and PastRecord.CommodityCode
= CommodityMaster.CommodityCode
and PastRecord.ISIC
= EstablishmentMaster.ISIC
and PastRecord.RegistrationNo
= EstablishmentMaster.RegistrationNo
and PastRecord.ISIC
= LinkMaster.ISIC
and PastRecord.ItemType
= LinkMaster.ItemType
and PastRecord.CommodityCode
= LinkMaster.CommodityCode
and PastRecord.Year
= LinkMaster.Year
and PastRecord.Month
= LinkMaster.Month
and LinkMaster.Version
= '1'
and PastRecord.ISIC
= DeflatorMaster.ISIC
and PastRecord.ItemType
= DeflatorMaster.ItemType
and PastRecord.CommodityCode
= DeflatorMaster.CommodityCode
and PastRecord.Year
= DeflatorMaster.Year
and PastRecord.Month
= DeflatorMaster.Month
and DeflatorMaster.Version

```

```

= '1'
and PastRecord. ISIC
= recgr. ISIC
and PastRecord. Year
= inYear
and PastRecord. Month
= inMonth
and PastRecord. ItemType
= '1'
and PastRecord. Pre_Rev_Mark
= inPre_Rev_mark
and CommodityMaster. CapacityCode
= recgr. IndexCommodityCode
and EstablishmentMaster. SurveyScope <= recgr. S
urveyScope
and LinkMaster. SurveyScope
= recgr. SurveyScope
and DeflatorMaster. SurveyScope
= recgr. SurveyScope;

-- DBMS_OUTPUT.PUT_LINE(' code= ' || recgr. IndexCommodityCode);
-- DBMS_OUTPUT.PUT_LINE(' recpr-ProductionQty= ' || recpr. ProductionQty);
-- Get Production Qty(Pre Month)
select sum(PastRecord. ProductionQty * LinkMaster. ProductionQty
/ DeflatorMaster. P
roductionQty)
into recpr. ProductionQty
from PastRecord, CommodityMaster, EstablishmentMaster, Lin
kMaster, DeflatorMaster
where PastRecord. ISIC
= CommodityMaster. ISIC
and PastRecord. ItemType
= CommodityMaster. ItemType
and PastRecord. CommodityCode
= CommodityMaster. CommodityCode
and PastRecord. ISIC
= EstablishmentMaster. ISIC
and PastRecord. RegistrationNo
= EstablishmentMaster. RegistrationNo
and PastRecord. ISIC
= LinkMaster. ISIC
and PastRecord. ItemType
= LinkMaster. ItemType
and PastRecord. CommodityCode
= LinkMaster. CommodityCode
and PastRecord. Year
= LinkMaster. Year
and PastRecord. Month
= LinkMaster. Month
and LinkMaster. Version
= '1'
and PastRecord. ISIC
= DeflatorMaster. ISIC
and PastRecord. ItemType
= DeflatorMaster. ItemType
and PastRecord. CommodityCode
= DeflatorMaster. CommodityCode
and PastRecord. Year
= DeflatorMaster. Year
and PastRecord. Month
= DeflatorMaster. Month
and DeflatorMaster. Version
= '1'
and PastRecord. ISIC
= recgr. ISIC
and PastRecord. Year
= nPY
and PastRecord. Month
= nPM
and PastRecord. ItemType
= '1'
and PastRecord. Pre_Rev_Mark
= '2'
and CommodityMaster. CapacityCode
= recgr. IndexCommodityCode

```

```

                                and      EstablishmentMaster.SurveyScope <= recgr. S
urveyScope                                and      LinkMaster.SurveyScope
                                = recgr.SurveyScope
                                and      DeflatorMaster.SurveyScope
                                = recgr.SurveyScope;

-- Growth Rate Calculation
                                recgr. GR_Capacity_CU                := f_GrowthRate(recpr. Capa
city, recprp. Capacity,
                                reclm. Capacity, reclmp. Capacity,
                                recdf. Capacity, recdfp. Capacity);
                                recgr. GR_ProductionQty_CU            := f_GrowthRate(recpr. ProductionQt
y, recprp. ProductionQty, 1, 1, 1, 1);
--      DBMS_OUTPUT.PUT_LINE(' recgr-ProductionQty= ' || recgr. GR_ProductionQty_CU);
                                recgr. GR_InventoryQty_IR            := null;
                                recgr. GR_ShipmentQty_IR             := null;
                                end if;
-- Growth Rate Master
                                update      GrowthRate
                                set           GR_InventoryQty_IR      = recgr. GR_InventoryQty_IR,
                                GR_ShipmentQty_IR      = recgr. GR_Shipment
Qty_IR,
                                GR_Capacity_CU        = recgr. GR_
Capacity_CU,
                                GR_ProductionQty_CU    = recgr. GR_ProductionQ
ty_CU,
                                GR_ProductionVal_LP    = null,
                                GR_ManHour_LP         = null
                                where current Of csrgr;
-- Fetch Indices Table
                                fetch      csrgr      into      recgr;
                                end loop;
                                close csrgr;
end;

-----
-- Growth Rate Of Ratio Index Elements Calculation By Industry.
-----
procedure p_GREleIndustry (
    inYear          in      number,
    inMonth         in      number,
    inPre_Rev_Mark  in      varchar2) is
-- Record Area Define
    recgr           GrowthRate%rowtype;
    reclm           LinkMaster%rowtype;
    reclmp          LinkMaster%rowtype;
    recpr           PastRecord%rowtype;
    recprp          PastRecord%rowtype;
-- Work Area
    nPM             number;
    nPY             number;
    nCM_ProductionValue      number;
    nCM_ManHours             number;
    nPM_ProductionValue      number;
    nPM_ManHours             number;
    nBPYear                  number;
    nBPMonth                 number;
-- Growth Rate Table Cursor

```

```

Cursor csrgr is
select *
from GrowthRate
where AggregationRange = '4'
and Year = inYear
and Month = inMonth
and Pre_Rev_Mark = inPre_Rev_Mark
for update;

Begin
-- DBMS_OUTPUT.PUT_LINE(' Start p_ActualValue ' || to_char(sysdate,'HH24:MI:SS'));
-- Commodity Master Cursor Open and Fetch
open csrgr;
fetch csrgr into recgr;
while csrgr%found loop

-- Get Pre Year and Month
if recgr.ComparisonTarget = '0' then
if inMonth = 1 then
nPY := inYear - 1;
nPM := 12;
else
nPY := inYear;
nPM := inMonth - 1;
end if;
else
nPY := inYear - 1;
nPM := inMonth;
end if;

-- Get Base Period Year and Month.
CalcIndex.GetBasePeriod(inYear, inMonth, recgr.SurveyScope, nPYYear, nPYMonth);

-- Get Production Value(This Month)
select sum(PastRecord.ProductionQty * BasePeriodFile.UnitPrice *
LinkMaster.ProductionQty /
DeflatorMaster.ProductionQty)
into nCM_ProductionValue
from PastRecord, EstablishmentMaster, LinkMaster, BasePeriodFile, D
eflatorMaster
where PastRecord.ISIC
= EstablishmentMaster.ISIC
and PastRecord.RegistrationNo = E
and PastRecord.ISIC
= LinkMaster.ISIC
and PastRecord.ItemType
= LinkMaster.ItemType
and PastRecord.CommodityCode
= LinkMaster.CommodityCode
and PastRecord.Year
= LinkMaster.Year
and PastRecord.Month
= LinkMaster.Month
and LinkMaster.Version
= '1'
and PastRecord.ISIC
= DeflatorMaster.ISIC
and PastRecord.ItemType
= DeflatorMaster.ItemType
and PastRecord.CommodityCode
= DeflatorMaster.CommodityCode
and PastRecord.Year
= DeflatorMaster.Year
and PastRecord.Month
= DeflatorMaster.Month
and DeflatorMaster.Version
= '1'
and PastRecord.ISIC
= recgr.ISIC
and PastRecord.Year
= inYear
and PastRecord.Month
= inMonth
and PastRecord.ItemType
= '1'
and PastRecord.Pre_Rev_Mark

```

```

                = inPre_Rev_mark
pe                and      EstablishmentMaster. SurveyScope <= recgr. SurveySco
                = recgr. SurveyScope
                and      LinkMaster. SurveyScope
                and      DeflatorMaster. SurveyScope                = r
ecgr. SurveyScope                and      PastRecord. ISIC
                = BasePeriodFile. ISIC
                and      PastRecord. ItemType
                = BasePeriodFile. ItemType
                and      PastRecord. CommodityCode
                = BasePeriodFile. CommodityCode
                and      PastRecord. RegistrationNo                = B
asePeriodFile. RegistrationNo    and      BasePeriodFile. Year
                = nBPYear
                and      BasePeriodFile. Month
                = nBPMonth
                and      BasePeriodFile. Version = '1';

-- Get Production Value(Pre Month)
select sum(PastRecord. ProductionQty * BasePeriodFile. UnitPrice *
                                                LinkMaster. Producti
onQty / DeflatorMaster. ProductionQty)
into    nPM_ProductionValue
from    PastRecord, EstablishmentMaster, LinkMaster, BasePeriodFile, D
eflatorMaster
where    PastRecord. ISIC
        = EstablishmentMaster. ISIC
        and      PastRecord. RegistrationNo                = E
EstablishmentMaster. RegistrationNo    and      PastRecord. ISIC
        = LinkMaster. ISIC
        and      PastRecord. ItemType
        = LinkMaster. ItemType
        and      PastRecord. CommodityCode
        = LinkMaster. CommodityCode
        and      PastRecord. Year
        = LinkMaster. Year
        and      PastRecord. Month
        = LinkMaster. Month
        and      LinkMaster. Version
        = '1'
        and      PastRecord. ISIC
        = DeflatorMaster. ISIC
        and      PastRecord. ItemType
        = DeflatorMaster. ItemType
        and      PastRecord. CommodityCode
        = DeflatorMaster. CommodityCode
        and      PastRecord. Year
        = DeflatorMaster. Year
        and      PastRecord. Month
        = DeflatorMaster. Month
        and      DeflatorMaster. Version
        = '1'
        and      PastRecord. ISIC
        = recgr. ISIC
        and      PastRecord. Year
        = nPY
        and      PastRecord. Month
        = nPM
        and      PastRecord. ItemType
        = '1'
        and      PastRecord. Pre_Rev_Mark
        = '2'
pe                and      EstablishmentMaster. SurveyScope <= recgr. SurveySco
                = recgr. SurveyScope
                and      LinkMaster. SurveyScope
                and      DeflatorMaster. SurveyScope                = r
ecgr. SurveyScope                and      PastRecord. ISIC
                = BasePeriodFile. ISIC
                and      PastRecord. ItemType
                = BasePeriodFile. ItemType
                and      PastRecord. CommodityCode

```



```

= BasePeriodFile.CommodityCode
and PastRecord.RegistrationNo = B
asePeriodFile.RegistrationNo
and BasePeriodFile.Year
= nBPYear
and BasePeriodFile.Month
= nBPMonth
and BasePeriodFile.Version = '1';

-- Get Production Value(This Month)
select sum(a.Labor_SC * b.LaborTotal * c.LaborTotal *
d.Worker * e.WorkingHour *
f.WorkingDay)
into nCM_ManHours
from PastRecord a, PastRecord b, PastRecord c,
linkMaster d, linkMaster e, linkMaster f, Est
ablishmentMaster
where a.ISIC = b.ISIC
and a.Year =
b.Year
and a.Month =
b.Month
and a.RegistrationNo = b.RegistrationNo
and a.ItemType = b.I
temType
and a.Pre_Rev_Mark = b.Pre_Rev_Mark
and b.CommodityCode = '020'
and a.ISIC =
c.ISIC
and a.Year =
c.Year
and a.Month =
c.Month
and a.RegistrationNo = c.RegistrationNo
and a.ItemType = c.I
temType
and a.Pre_Rev_Mark = c.Pre_Rev_Mark
and c.CommodityCode = '030'
and a.ISIC =
d.ISIC
and a.ItemType = d.ItemType
and a.Year =
d.Year
and a.Month =
d.Month
and d.CommodityCode = '010'
and d.SurveyScope = recgr.SurveyScope
and d.Version =
1'
and a.ISIC =
e.ISIC
and a.ItemType = e.ItemType
and a.Year =
e.Year
and a.Month =
e.Month
and e.CommodityCode = '020'
and e.SurveyScope = recgr.SurveyScope
and e.Version =
1'
and a.ISIC =
f.ISIC
and a.ItemType = f.ItemType
and a.Year =
f.Year
and a.Month =
f.Month
and f.CommodityCode = '030'
and f.SurveyScope = recgr.SurveyScope
and f.Version =
1'
and a.ISIC = E
ablishmentMaster.ISIC
and a.RegistrationNo = EstablishmentMaster.Regi
strationNo
and EstablishmentMaster.SurveyScope <= recgr.SurveySco
pe

```

```

ecgr. ISIC          and a. ISIC = r
nYear              and a. Year   = i
nMonth             and a. Month  = i
                   and a. ItemType = '3'
                   and a. CommodityCode = '010'
                   and a. Pre_Rev_Mark = inPre_Rev_mark;

-- Get Production Value(Pre Month)
select sum(a. Labor_SC * b. LaborTotal * c. LaborTotal *
d. Worker * e. WorkingHour *
f. WorkingDay)
into nPM_ManHours
from PastRecord a, PastRecord b, PastRecord c,
linkMaster d, linkMaster e, linkMaster f, Est
abishmentMaster
where a. ISIC = b. ISIC
and a. Year =
and a. Month =
and a. RegistrationNo = b. RegistrationNo
and a. ItemType = b. I
and a. Pre_Rev_Mark = b. Pre_Rev_Mark
and a. CommodityCode = '020'
and a. ISIC =
and a. Year =
and a. Month =
and a. RegistrationNo = c. RegistrationNo
and a. ItemType = c. I
and a. Pre_Rev_Mark = c. Pre_Rev_Mark
and c. CommodityCode = '030'
and a. ISIC =
and a. ItemType = d. ItemType
and a. Year =
and a. Month =
and d. CommodityCode = '010'
and d. SurveyScope = recgr. SurveyScope
and d. Version =
and a. ISIC =
and a. ItemType = e. ItemType
and a. Year =
and a. Month =
and e. CommodityCode = '020'
and e. SurveyScope = recgr. SurveyScope
and e. Version =
and a. ISIC =
and a. ItemType = f. ItemType
and a. Year =
and a. Month =
and f. CommodityCode = '030'
and f. SurveyScope = recgr. SurveyScope
and f. Version =
and a. ISIC = E
and a. RegistrationNo = EstablishmentMaster. Regi
and EstablishmentMaster. SurveyScope <= recgr. SurveySco

```

```

pe
and a. ISIC = r
ecgr. ISIC
and a. Year = n
PY
and a. Month = n
PM
and a. ItemType = '3'
and a. CommodityCode = '010'
and a. Pre_Rev_Mark = '2';

-- Growth Rate Calculation
recgr. GR_ProductionVal_LP := f_GrowthRate(nCM_ProductionValu
e, nPM_ProductionValue, 1, 1, 1, 1);
recgr. GR_ManHour_LP := f_GrowthRate(nCM
_ManHours, nPM_ManHours, 1, 1, 1, 1);

-- Growth Rate Master
update GrowthRate
set GR_ProductionVal_LP = recgr. GR_ProductionVal_L
P,
GR_ManHour_LP = recgr. GR_ManHour_LP,
GR_InventoryQty_IR = null,
GR_ShipmentQty_IR = null,
GR_Capacity_CU = null,
GR_ProductionQty_CU = null
where current Of csrgr;

-- Fetch Indices Table
fetch csrgr into recgr;

end loop;

close csrgr;

end;

/* =====
Compair data with the previous data
===== */
FUNCTION Fcpm (
nPre IN NUMBER,
nCur IN NUMBER)
RETURN number
IS
-- DECLARE
nValue NUMBER;
BEGIN
IF nPre IS NULL OR nCur IS NULL THEN
nValue := NULL;
RETURN nValue;
ELSIF nPre = 0 THEN
nValue := NULL;
RETURN nValue;
ELSE
nValue := ((nCur/nPre) - 1) * 100;
RETURN nValue;
END IF;
END; -- the end of function Fcpm

/* =====
Insert data to GrowthRate Table.
===== */
PROCEDURE p_GRIndices(
pYear IN NUMBER,
pMonth IN NUMBER,
pPreRev IN VARCHAR2)
IS
-- DECLARE
CURSOR CsrIndex IS
SELECT *
FROM Indices
WHERE Year = pYear
AND Month = pMonth
AND Pre_Rev_Mark = pPreRev
ORDER BY ISIC, ItemType;

```

```

RecIndex    CsrIndex%ROWTYPE;

RecGR       GrowthRate%ROWTYPE;
nCnt        NUMBER;
nPreMonth   NUMBER;
nYear       NUMBER;
nPreYear    NUMBER;

CURSOR CsrPM IS
  SELECT *
  FROM Indices
  WHERE AggregationRange = RecIndex. AggregationRange
    AND ISIC = RecIndex. ISIC
    AND ItemType = RecIndex. ItemType
    AND IndexCommodityCode = RecIndex. IndexCommodityCode
    AND Year = nYear
    AND Month = nPreMonth
    AND SurveyScope = RecIndex. SurveyScope
    AND Pre_Rev_Mark = '2';
RecPM       CsrPM%ROWTYPE;

CURSOR CsrPY IS
  SELECT *
  FROM Indices
  WHERE AggregationRange = RecIndex. AggregationRange
    AND ISIC = RecIndex. ISIC
    AND ItemType = RecIndex. ItemType
    AND IndexCommodityCode = RecIndex. IndexCommodityCode
    AND Year = nPreYear
    AND Month = RecIndex. Month
    AND SurveyScope = RecIndex. SurveyScope
    AND Pre_Rev_Mark = '2';
RecPY       CsrPY%ROWTYPE;

BEGIN
-- DBMS_OUTPUT. ENABLE(60000);
-- Delete Growth Rate Table
      delete from GrowthRate
      where Year = pYear
    AND Month = pMonth
    AND Pre_Rev_Mark = pPreRev;

OPEN CsrIndex;
LOOP
  FETCH CsrIndex INTO RecIndex;
  EXIT WHEN CsrIndex%NOTFOUND;

  RecGR. AggregationRange := RecIndex. AggregationRange;
  RecGR. ISIC := RecIndex. ISIC;
  RecGR. ItemType := RecIndex. ItemType;
  RecGR. IndexCommodityCode := RecIndex. IndexCommodityCode;
  RecGR. Year := RecIndex. Year;
  RecGR. Month := RecIndex. Month;
  RecGR. SurveyScope := RecIndex. SurveyScope;
  RecGR. Pre_Rev_Mark := RecIndex. Pre_Rev_Mark;

  nPreYear := RecIndex. Year - 1;
  IF RecIndex. Month = 1 THEN
    nPreMonth := 12;
    nYear := RecIndex. Year - 1;
  ELSE
    nPreMonth := RecIndex. Month - 1;
    nYear := RecIndex. Year;
  END IF;

-- Find out the compair data in each indices.
-- Data in Previous Month
OPEN CsrPM;
FETCH CsrPM INTO RecPM;
RecGR. ComparisonTarget := '0';
IF CsrPM%NOTFOUND THEN
  RecGR. GR_PR1 := NULL;
  RecGR. GR_SP2 := NULL;
  RecGR. GR_IV3 := NULL;
  RecGR. GR_IR4 := NULL;
  RecGR. GR_CU5 := NULL;
  RecGR. GR_LP6 := NULL;

```

```

RecGR. GR_L17 := NULL;
RecGR. GR_R18 := NULL;
ELSE
  RecGR. GR_PR1 := Fcpm(RecPM. IndexPR1, RecIndex. IndexPR1);
  RecGR. GR_SP2 := Fcpm(RecPM. IndexSP2, RecIndex. IndexSP2);
  RecGR. GR_IV3 := Fcpm(RecPM. IndexIV3, RecIndex. IndexIV3);
  RecGR. GR_IR4 := Fcpm(RecPM. IndexIR4, RecIndex. IndexIR4);
  RecGR. GR_CU5 := Fcpm(RecPM. IndexCU5, RecIndex. IndexCU5);
  RecGR. GR_LP6 := Fcpm(RecPM. IndexLP6, RecIndex. IndexLP6);
  RecGR. GR_L17 := Fcpm(RecPM. IndexL17, RecIndex. IndexL17);
  RecGR. GR_R18 := Fcpm(RecPM. IndexR18, RecIndex. IndexR18);
END IF;
CLOSE CsrPM;

INSERT INTO GrowthRate (
  AggregationRange,
  ISIC,
  ItemType,
  IndexCommodityCode,
  Year,
  Month,
  SurveyScope,
  Pre_Rev_Mark,
  ComparisonTarget,
  GR_PR1,
  GR_SP2,
  GR_IV3,
  GR_IR4,
  GR_CU5,
  GR_LP6,
  GR_L17,
  GR_R18)
VALUES (
  RecGR. AggregationRange,
  RecGR. ISIC,
  RecGR. ItemType,
  RecGR. IndexCommodityCode,
  RecGR. Year,
  RecGR. Month,
  RecGR. SurveyScope,
  RecGR. Pre_Rev_Mark,
  RecGR. ComparisonTarget,
  RecGR. GR_PR1,
  RecGR. GR_SP2,
  RecGR. GR_IV3,
  RecGR. GR_IR4,
  RecGR. GR_CU5,
  RecGR. GR_LP6,
  RecGR. GR_L17,
  RecGR. GR_R18);

-- Data in Same Month in Previous Year
OPEN CsrPY;
FETCH CsrPY INTO RecPY;
RecGR. ComparisonTarget := '1';
IF CsrPY%NOTFOUND THEN
  RecGR. GR_PR1 := NULL;
  RecGR. GR_SP2 := NULL;
  RecGR. GR_IV3 := NULL;
  RecGR. GR_IR4 := NULL;
  RecGR. GR_CU5 := NULL;
  RecGR. GR_LP6 := NULL;
  RecGR. GR_L17 := NULL;
  RecGR. GR_R18 := NULL;
ELSE
  RecGR. GR_PR1 := Fcpm(RecPY. IndexPR1, RecIndex. IndexPR1);
  RecGR. GR_SP2 := Fcpm(RecPY. IndexSP2, RecIndex. IndexSP2);
  RecGR. GR_IV3 := Fcpm(RecPY. IndexIV3, RecIndex. IndexIV3);
  RecGR. GR_IR4 := Fcpm(RecPY. IndexIR4, RecIndex. IndexIR4);
  RecGR. GR_CU5 := Fcpm(RecPY. IndexCU5, RecIndex. IndexCU5);
  RecGR. GR_LP6 := Fcpm(RecPY. IndexLP6, RecIndex. IndexLP6);
  RecGR. GR_L17 := Fcpm(RecPY. IndexL17, RecIndex. IndexL17);
  RecGR. GR_R18 := Fcpm(RecPY. IndexR18, RecIndex. IndexR18);
END IF;

```

```

CLOSE CsrPY;

INSERT INTO GrowthRate (
  AggregationRange,
  ISIC,
  ItemType,
  IndexCommodityCode,
  Year,
  Month,
  SurveyScope,
  Pre_Rev_Mark,
  ComparisonTarget,
  GR_PR1,
  GR_SP2,
  GR_IV3,
  GR_IR4,
  GR_CU5,
  GR_LP6,
  GR_LI7,
  GR_RI8)
VALUES (
  RecGR. AggregationRange,
  RecGR. ISIC,
  RecGR. ItemType,
  RecGR. IndexCommodityCode,
  RecGR. Year,
  RecGR. Month,
  RecGR. SurveyScope,
  RecGR. Pre_Rev_Mark,
  RecGR. ComparisonTarget,
  RecGR. GR_PR1,
  RecGR. GR_SP2,
  RecGR. GR_IV3,
  RecGR. GR_IR4,
  RecGR. GR_CU5,
  RecGR. GR_LP6,
  RecGR. GR_LI7,
  RecGR. GR_RI8);

END LOOP; -- fetch data from Indeies.
CLOSE CsrIndex;

END; -- end of p_GRIndices procedure

end GRCal;
/
show errors
/

```

```

-- =====
-- Package Name : Index List of The Growth Rate Data Making
-- Package ID   : IndexListMk
-- Create Date  : 20/Oct/1999
-- Replace Date : xx/xxx/xxxx
-- Author       : Nakamura
--
-- File        : @c:\jica\indexlistmk;
-- Test
END;
-- Test
3, '1', '2'); END;
-- Test
'1512', 1999, 3, '1', '2'); END;
-- Test
-- Test
-- =====
create or replace package IndexListMk is
procedure p_CommlnAll (
    inSeq          in number,
    inYear         in number,
    inMonth        in number,
    inSurveyScope  in varchar2,
    inPre_Rev_Mark in varchar2);

procedure p_IndustrylnAll (
    inSeq          in number,
    inYear         in number,
    inMonth        in number,
    inSurveyScope  in varchar2,
    inPre_Rev_Mark in varchar2);

procedure p_CommlnIndustry (
    inSeq          in number,
    inAggregationRange in Varchar2,
    inSIC          in Varchar2,
    inYear         in number,
    inMonth        in number,
    inSurveyScope  in varchar2,
    inPre_Rev_Mark in varchar2);

end IndexListMk;
/
show errors
/

create or replace package body IndexListMk is
-- =====
-- Insert Temporary Index List Table
-- =====
procedure p_InsIndexList (
    n          in number,
    inSeq      in number,
    inReportType in varchar2,
    inIndexType in varchar2,
    2,
    inYear     in number,
    ber,
    inMonth    in number,
    ber,
    inSIC      in varchar2,
    char2,
    inCommodityCode in varchar2,
    inIndustryTypeShortName in varchar2,
    inCommodityShortName in varchar2,
    inIndexCM      in number,
    ber,
    inIndexPM      in number,
    ber,
    inIndexPY      in number,
    ber,
    inGR_CPM       in number,
    ber,
    inGR_CPY       in number,
    ber,
    inCD_CPM       in number,
    ber,
    i

```

```

ber,      inCD_CPY                                in      num
ber,      inCR_CPM                                in      num
ber,      inCR_CPY                                in      num
ber,      inSumIndexCM                            in      number,
inSumIndexPM                                    in      number,
inSumIndexPY                                    in      number,
inSumGR_CPM                                     in      number,
inSumGR_CPY                                     in      number,
inSumCD_CPM                                     in      number,
inSumCD_CPY                                     in      number,
inSumCR_CPM                                     in      number,
inSumCR_CPY                                     in      number) is

begin
  Insert
  into      IndexList (
    Seq,
    ReportType,
    IndexType,
    Year,
    Month,
    ISIC,
    CommodityCode,
    IndustryTypeShortName,
    CommodityShortName,
    IndexCM,
    IndexPM,
    IndexPY,
    GR_CPM,
    GR_CPY,
    CD_CPM,
    CD_CPY,
    CR_CPM,
    CR_CPY,
    SumIndexCM,
    SumIndexPM,
    SumIndexPY,
    SumGR_CPM,
    SumGR_CPY,
    SumCD_CPM,
    SumCD_CPY,
    SumCR_CPM,
    SumCR_CPY)

    Values (inSeq,
            inReportType,
            inIndexType,
            inYear,
            inMonth,
            inISIC,
            inCommodityCode,
            inIndustryTypeShortName,
            inCommodityShortName,
            inIndexCM,
            inIndexPM,
            inIndexPY,
            inGR_CPM,
            inGR_CPY,
            inCD_CPM,
            inCD_CPY,
            inCR_CPM,
            inCR_CPY,
            inSumIndexCM,
            inSumIndexPM,
            inSumIndexPY,
            inSumGR_CPM,
            inSumGR_CPY,
            inSumCD_CPM,
            inSumCD_CPY,
            inSumCR_CPM,
            inSumCR_CPY);
end;

```

```
-- Commodity In All Manufacturing Data Get
```



```

        and c.ComparisonTarget = '0'
        and c.Seq = inSeq
and Indices.ISIC = d.ISIC
and Indices.ItemType = d.ItemType
and Indices.IndexCommodityCode = d.CommodityCode
and Indices.Year = d.Year
and Indices.Month = d.Month
and Indices.SurveyScope = d.SurveyScope
and Indices.Pre_Rev_Mark = d.Pre_Rev_Mark
        and d.ComparisonTarget = '1'
        and d.Seq = inSeq
and Indices.ISIC = CommodityMaster.ISIC
and Indices.ItemType = CommodityMaster.ItemType
and Indices.IndexCommodityCode = CommodityMaster.CommodityCode
        and Indices.AggregationRange = '5'
        and Indices.ItemType in('1','6')
        and Indices.Year = inYear
        and Indices.Month = inMonth
        and Indices.SurveyScope = inSurveyScope
        and Indices.Pre_Rev_Mark = inPre_Rev_Mark;

Begin
-- DBMS_OUTPUT.PUT_LINE('Start p_ActualValue ' || to_char(sysdate,'HH24:MI:SS'));
-- Initial Process
    nPY_Y := inYear - 1;
    nPY_M := inMonth;

    if inMonth = 1 then
        nPM_Y := inYear - 1;
        nPM_M := 12;
    else
        nPM_Y := inYear;
        nPM_M := inMonth - 1;
    end if;

-- Summary Current Month Data Selecting
begin
    select Indices.INDEXPR1, Indices.INDEXSP2, Indices.INDEXIV3,
           Indices.INDEXIR4, Indices.INDEXCU5, Indices.INDEXLP6,
           a.GR_PR1, a.GR_SP2, a.GR_IV3, a.GR_IR4, a.GR_C
U5, a.GR_LP6,
           b.GR_PR1, b.GR_SP2, b.GR_IV3, b.GR_IR4, b.GR_C
U5, b.GR_LP6
    into recids.INDEXPR1, recids.INDEXSP2, recids.INDEXIV3,
        recids.INDEXIR4, recids.INDEXCU5, recids.INDEXLP6,
        recgrms.GR_PR1, recgrms.GR_SP2, recgrms.GR_I
V3,
        recgrms.GR_IR4, recgrms.GR_CU5, recgrms.GR_L
P6,
        recgrys.GR_PR1, recgrys.GR_SP2, recgrys.GR_I
V3,
        recgrys.GR_IR4, recgrys.GR_CU5, recgrys.GR_L
P6
    from Indices, GrowthRate a, GrowthRate b
    where Indices.AggregationRange = a.AggregationRange
    and Indices.ISIC = a.ISIC
    and Indices.Year = a.Year
    and Indices.Month = a.Month
    and Indices.SurveyScope = a.SurveyScope
    and Indices.Pre_Rev_Mark = a.Pre_Rev_Mark
    and a.ComparisonTarget = '0'
    and Indices.AggregationRange = b.AggregationRange
    and Indices.ISIC = b.ISIC
    and Indices.Year = b.Year
    and Indices.Month = b.Month
    and Indices.SurveyScope = b.SurveyScope
    and Indices.Pre_Rev_Mark = b.Pre_Rev_Mark
    and b.ComparisonTarget = '1'
        and Indices.AggregationRange = '1'
        and Indices.Year = inYear
        and Indices.Month = inMonth
        and Indices.SurveyScope = inSurveyScope
        and Indices.Pre_Rev_Mark = inPre_Rev_Mark;

exception
    when no_data_found then
        recids.INDEXPR1 := 0;

```

```

recids. INDEXSP2 := 0;
recids. INDEXIV3 := 0;
recids. INDEXIR4 := 0;
recids. INDEXCU5 := 0;
recids. INDEXLP6 := 0;
recgrms. GR_PR1 := 0;
recgrms. GR_SP2 := 0;
recgrms. GR_IV3 := 0;
recgrms. GR_IR4 := 0;
recgrms. GR_CU5 := 0;
recgrms. GR_LP6 := 0;
recgrys. GR_PR1 := 0;
recgrys. GR_SP2 := 0;
recgrys. GR_IV3 := 0;
recgrys. GR_IR4 := 0;
recgrys. GR_CU5 := 0;
recgrys. GR_LP6 := 0;

end;

-- Summary Pre Month Data Selecting
begin
    select IndexPR1,
           IndexSP2,
           IndexIV3,
           IndexIR4,
           IndexCU5,
           IndexLP6
    into recids. IndexPR1,
        recids. IndexSP2,
        recids. IndexIV3,
        recids. IndexIR4,
        recids. IndexCU5,
        recids. IndexLP6
    from Indices
    where AggregationRange = '1'
    and Year = nPM_Y
    and Month = nPM_M
    and SurveyScope = inSurveyScope
    and Indices.Pre_Rev_Mark = '2';

    exception
    when no_data_found then
        recids. IndexPR1 := 0;
recids. IndexSP2 := 0;
recids. IndexIV3 := 0;
recids. IndexIR4 := 0;
recids. IndexCU5 := 0;
recids. IndexLP6 := 0;
end;

-- Summary Pre Year Data Selecting
begin
    select IndexPR1,
           IndexSP2,
           IndexIV3,
           IndexIR4,
           IndexCU5,
           IndexLP6
    into recids. IndexPR1,
        recids. IndexSP2,
        recids. IndexIV3,
        recids. IndexIR4,
        recids. IndexCU5,
        recids. IndexLP6
    from Indices
    where AggregationRange = '1'
    and Year = nPY_Y
    and Month = nPY_M
    and SurveyScope = inSurveyScope
    and Indices.Pre_Rev_Mark = '2';

    exception
    when no_data_found then
        recids. IndexPR1 := null;
recids. IndexSP2 := null;
recids. IndexIV3 := null;
recids. IndexIR4 := null;

```

```

    recidys.IndexCU5 := null;
    recidys.IndexLP6 := null;
    end;

-- Summary Contribution CPM Data Selecting
begin
    select  sum(CD_PR1), sum(CD_SP2), sum(CD_IV3), sum(CD_IR4), sum(CD_CU5), sum(CD
_LP6),
                                sum(CR_PR1), sum(CR_SP2), sum(CR_IV3), sum(CR
_IR4), sum(CR_CU5), sum(CR_LP6)
    into    recc2ms.CD_PR1, recc2ms.CD_SP2, recc2ms.CD_IV3,
                                recc2ms.CD_IR4, recc2ms.CD_CU5, recc2ms.CD_L
P6,
                                recc2ms.CR_PR1, recc2ms.CR_SP2, recc2ms.CR_I
V3,
                                recc2ms.CR_IR4, recc2ms.CR_CU5, recc2ms.CR_L
P6

    from    ContributionForAll2
    where   Year = inYear
            and      Month = inMonth
            and      SurveyScope = inSurveyScope
            and      Pre_Rev_Mark = inPre_Rev_Mark
            and      ComparisonTarget = '0'
            and      Seq = inSeq;

exception
    when no_data_found then
        recc2ms.CD_PR1 := 0;
        recc2ms.CD_SP2 := 0;
        recc2ms.CD_IV3 := 0;
        recc2ms.CD_IR4 := 0;
        recc2ms.CD_CU5 := 0;
        recc2ms.CD_LP6 := 0;
        recc2ms.CR_PR1 := 0;
        recc2ms.CR_SP2 := 0;
        recc2ms.CR_IV3 := 0;
        recc2ms.CR_IR4 := 0;
        recc2ms.CR_CU5 := 0;
        recc2ms.CR_LP6 := 0;

end;

-- Summary Contribution CPY Data Selecting
begin
    select  sum(CD_PR1), sum(CD_SP2), sum(CD_IV3), sum(CD_IR4), sum(CD_CU5), sum(CD
_LP6),
                                sum(CR_PR1), sum(CR_SP2), sum(CR_IV3), sum(CR
_IR4), sum(CR_CU5), sum(CR_LP6)
    into    recc2ys.CD_PR1, recc2ys.CD_SP2, recc2ys.CD_IV3,
                                recc2ys.CD_IR4, recc2ys.CD_CU5, recc2ys.CD_L
P6,
                                recc2ys.CR_PR1, recc2ys.CR_SP2, recc2ys.CR_I
V3,
                                recc2ys.CR_IR4, recc2ys.CR_CU5, recc2ys.CR_L
P6

    from    ContributionForAll2
    where   Year = inYear
            and      Month = inMonth
            and      SurveyScope = inSurveyScope
            and      Pre_Rev_Mark = inPre_Rev_Mark
            and      ComparisonTarget = '1'
            and      Seq = inSeq;

exception
    when no_data_found then
        recc2ys.CD_PR1 := 0;
        recc2ys.CD_SP2 := 0;
        recc2ys.CD_IV3 := 0;
        recc2ys.CD_IR4 := 0;
        recc2ys.CD_CU5 := 0;
        recc2ys.CD_LP6 := 0;
        recc2ys.CR_PR1 := 0;
        recc2ys.CR_SP2 := 0;
        recc2ys.CR_IV3 := 0;
        recc2ys.CR_IR4 := 0;
        recc2ys.CR_CU5 := 0;
        recc2ys.CR_LP6 := 0;

end;

```

```

-- Indices Cursor Open Fetch
open      csrid;
fetch     csrid
into      recid. ISIC, recid. ItemType, recid. IndexCommodityCode,
recid. IndexPR1, recid. IndexSP2, recid. IndexIV3,
recid. IndexIR4, recid. IndexCU5, recid. IndexLP6,
recgrm. GR_PR1, recgrm. GR_SP2, recgrm. GR_IV3,
recgrm. GR_IR4, recgrm. GR_CU5, recgrm. GR_LP6,
recgry. GR_PR1, recgry. GR_SP2, recgry. GR_IV3,
recgry. GR_IR4, recgry. GR_CU5, recgry. GR_LP6,
recc2m. CD_PR1, recc2m. CD_SP2, recc2m. CD_IV3,
recc2m. CD_IR4, recc2m. CD_CU5, recc2m. CD_LP6,
recc2m. CR_PR1, recc2m. CR_SP2, recc2m. CR_IV3,
recc2m. CR_IR4, recc2m. CR_CU5, recc2m. CR_LP6,
recc2y. CD_PR1, recc2y. CD_SP2, recc2y. CD_IV3,
recc2y. CD_IR4, recc2y. CD_CU5, recc2y. CD_LP6,
recc2y. CR_PR1, recc2y. CR_SP2, recc2y. CR_IV3,
recc2y. CR_IR4, recc2y. CR_CU5, recc2y. CR_LP6, reccm. Co
mmodityShortName;

-- Indices Cursor Fetch Looping
while csrid%found loop

-- Pre Month Data Selecting
begin
    select
        IndexPR1,
        IndexSP2,
        IndexIV3,
        IndexIR4,
        IndexCU5,
        IndexLP6
    into   recidm. IndexPR1,
recidm. IndexSP2,
recidm. IndexIV3,
recidm. IndexIR4,
recidm. IndexCU5,
recidm. IndexLP6
    from   Indices
    where  AggregationRange = '5'
    and    ISIC = recid. ISIC
    and    ItemType = recid. ItemType
    and    IndexCommodityCode = recid. IndexCommodityCode
    and    Year = nPM_Y
    and    Month = nPM_M
    and    SurveyScope = inSurveyScope
    and    Indices.Pre_Rev_Mark = '2';

    exception
    when no_data_found then
        recidm. IndexPR1 := 0;
recidm. IndexSP2 := 0;
recidm. IndexIV3 := 0;
recidm. IndexIR4 := 0;
recidm. IndexCU5 := 0;
recidm. IndexLP6 := 0;
    end;

-- Pre Year Data Selecting
begin
    select
        IndexPR1,
        IndexSP2,
        IndexIV3,
        IndexIR4,
        IndexCU5,
        IndexLP6
    into   recidy. IndexPR1,
recidy. IndexSP2,
recidy. IndexIV3,
recidy. IndexIR4,
recidy. IndexCU5,
recidy. IndexLP6
    from   Indices
    where  AggregationRange = '5'
    and    ISIC = recid. ISIC

```

```

and ItemType = recid.ItemType
and IndexCommodityCode = recid.IndexCommodityCode
and Year = nPY_Y
and Month = nPY_M
and SurveyScope = inSurveyScope
and Indices.Pre_Rev_Mark = '2';

exception
when no_data_found then
    recidy.IndexPR1 := null;
recidy.IndexSP2 := null;
recidy.IndexIV3 := null;
recidy.IndexIR4 := null;
recidy.IndexCU5 := null;
recidy.IndexLP6 := null;
end;

-- Item Type 1 Process
if recid.ItemType = '1' then
-- Insert Index List Table(PR1)
p_InsIndexList(inSeq, '1', '1', inYear, inMonth, recid.ISIC, recid.Index
CommodityCode,
null, reccm.CommodityShortName,
recid.IndexPR1, recidm.IndexPR1, recidy.IndexPR1, recgrm.GR_P
R1, recgry.GR_PR1,
recc2m.CD_PR1, recc2y.CD_PR1, recc2m.CR_PR1, recc2y.CR_PR1,
recids.IndexPR1, recidms.IndexPR1, recidys.IndexPR1, recgrms.
GR_PR1, recgrys.GR_PR1,
recc2ms.CD_PR1, recc2ys.CD_PR1, recc2ms.CR_PR1, recc2ys.CR_PR
1);
-- Insert Index List Table(SP2)
p_InsIndexList(inSeq, '1', '2', inYear, inMonth, recid.ISIC, recid.Index
CommodityCode,
null, reccm.CommodityShortName,
recid.IndexSP2, recidm.IndexSP2, recidy.IndexSP2, recgrm.GR_S
P2, recgry.GR_SP2,
recc2m.CD_SP2, recc2y.CD_SP2, recc2m.CR_SP2, recc2y.CR_SP2,
recids.IndexSP2, recidms.IndexSP2, recidys.IndexSP2, recgrms.
GR_SP2, recgrys.GR_SP2,
recc2ms.CD_SP2, recc2ys.CD_SP2, recc2ms.CR_SP2, recc2ys.CR_SP
2);
-- Insert Index List Table(IV3)
p_InsIndexList(inSeq, '1', '3', inYear, inMonth, recid.ISIC, recid.Index
CommodityCode,
null, reccm.CommodityShortName,
recid.IndexIV3, recidm.IndexIV3, recidy.IndexIV3, recgrm.GR_I
V3, recgry.GR_IV3,
recc2m.CD_IV3, recc2y.CD_IV3, recc2m.CR_IV3, recc2y.CR_IV3,
recids.IndexIV3, recidms.IndexIV3, recidys.IndexIV3, recgrms.
GR_IV3, recgrys.GR_IV3,
recc2ms.CD_IV3, recc2ys.CD_IV3, recc2ms.CR_IV3, recc2ys.CR_IV
3);
-- Insert Index List Table(IR4)
p_InsIndexList(inSeq, '1', '4', inYear, inMonth, recid.ISIC, recid.Index
CommodityCode,
null, reccm.CommodityShortName,
recid.IndexIR4, recidm.IndexIR4, recidy.IndexIR4, recgrm.GR_I
R4, recgry.GR_IR4,
recc2m.CD_IR4, recc2y.CD_IR4, recc2m.CR_IR4, recc2y.CR_IR4,
recids.IndexIR4, recidms.IndexIR4, recidys.IndexIR4, recgrms.
GR_IR4, recgrys.GR_IR4,
recc2ms.CD_IR4, recc2ys.CD_IR4, recc2ms.CR_IR4, recc2ys.CR_IR
4);
-- Item Type 6 Process
elsif recid.ItemType = '6' then
-- Insert Index List Table(CU5)
p_InsIndexList(inSeq, '1', '5', inYear, inMonth, recid.ISIC, recid.Index
CommodityCode,
null, reccm.CommodityShortName,
recid.IndexCU5, recidm.IndexCU5, recidy.IndexCU5, recgrm.GR_C
U5, recgry.GR_CU5,

```

```

GR_CU5, recgrys. GR_CU5,
5);
    end if;
-- Fetch Indices Table
    fetch    csrid
    into      recid. ISIC, recid. ItemType, recid. IndexCommodityCode,
    recid. IndexPR1, recid. IndexSP2, recid. IndexIV3,
    recid. IndexIR4, recid. IndexCU5, recid. IndexL
P6,
    recgrm. GR_PR1, recgrm. GR_SP2, recgrm. GR_IV3,
    recgrm. GR_IR4, recgrm. GR_CU5, recgrm. GR_LP6,
    recgry. GR_PR1, recgry. GR_SP2, recgry. GR_IV3,
    recgry. GR_IR4, recgry. GR_CU5, recgry. GR_LP6,
    recc2m. CD_PR1, recc2m. CD_SP2, recc2m. CD_IV3,
    recc2m. CD_IR4, recc2m. CD_CU5, recc2m. CD_LP6,
    recc2m. CR_PR1, recc2m. CR_SP2, recc2m. CR_IV3,
    recc2m. CR_IR4, recc2m. CR_CU5, recc2m. CR_LP6,
    recc2y. CD_PR1, recc2y. CD_SP2, recc2y. CD_IV3,
    recc2y. CD_IR4, recc2y. CD_CU5, recc2y. CD_LP6,
    recc2y. CR_PR1, recc2y. CR_SP2, recc2y. CR_IV3,
    recc2y. CR_IR4, recc2y. CR_CU5, recc2y. CR_LP6,
reccm. CommodityShortName;
    end loop;
    close csrid;
end;

-----
-- Industry In All Manufacturing Data Get
-----
procedure p_IndustryInAll (
    inSeq          in      number,
    inYear         in      number,
    inMonth        in      number,
    inSurveyScope  in      varchar2,
    inPre_Rev_Mark in      varchar2) is
-- Record Area Define
    recid      Indices%rowtype;
    recidm     Indices%rowtype;
    recidy     Indices%rowtype;
    recgrm     growthRate%rowtype;
    recgry     growthRate%rowtype;
    recc1m     ContributionForAll1%rowtype;
    recc1y     ContributionForAll1%rowtype;
    reccam     AggregationMaster%rowtype;

    recids     Indices%rowtype;
    recidms    Indices%rowtype;
    recidys    Indices%rowtype;
    recgrms    growthRate%rowtype;
    recgrys    growthRate%rowtype;
    recc1ms    ContributionForAll1%rowtype;
    recc1ys    ContributionForAll1%rowtype;

-- Work Area
    nPM_Y      number;
    nPM_M      number;
    nPY_Y      number;
    nPY_M      number;

-- Indices Table Cursor
    Cursor csrid is
        select  Indices. ISIC, Indices. INDEXPR1, Indices. INDEXSP2, Indices. INDEXIV3,
                Indices. INDEXIR4, Indices. INDEXCU5, Indices. INDEXLP6,
                a. GR_PR1, a. GR_SP2, a. GR_IV3, a. GR_IR4, a. GR_C
U5, a. GR_LP6,
                b. GR_PR1, b. GR_SP2, b. GR_IV3, b. GR_IR4, b. GR_C
U5, b. GR_LP6,
                c. CD_PR1, c. CD_SP2, c. CD_IV3, c. CD_IR4, c. CD_C
U5, c. CD_LP6,

```

```

U5, c. CR_LP6, c. CR_PR1, c. CR_SP2, c. CR_IV3, c. CR_IR4, c. CR_C
U5, d. CD_LP6, d. CD_PR1, d. CD_SP2, d. CD_IV3, d. CD_IR4, d. CD_C
U5, d. CR_LP6, d. CR_PR1, d. CR_SP2, d. CR_IV3, d. CR_IR4, d. CR_C
AggregationMaster. IndustryTypeShortName
from Indices, GrowthRate a, GrowthRate b,
ContributionForAll1 c, ContributionForAll1 d, AggregationMas
ter
where Indices.AggregationRange = a.AggregationRange
and Indices.ISIC = a.ISIC
and Indices.Year = a.Year
and Indices.Month = a.Month
and Indices.SurveyScope = a.SurveyScope
and Indices.Pre_Rev_Mark = a.Pre_Rev_Mark
and a.ComparisonTarget = '0'
and Indices.AggregationRange = b.AggregationRange
and Indices.ISIC = b.ISIC
and Indices.Year = b.Year
and Indices.Month = b.Month
and Indices.SurveyScope = b.SurveyScope
and Indices.Pre_Rev_Mark = b.Pre_Rev_Mark
and b.ComparisonTarget = '1'
and Indices.ISIC = c.ISIC
and Indices.Year = c.Year
and Indices.Month = c.Month
and Indices.SurveyScope = c.SurveyScope
and Indices.Pre_Rev_Mark = c.Pre_Rev_Mark
and c.ComparisonTarget = '0'
and c.Seq = inSeq
and Indices.ISIC = d.ISIC
and Indices.Year = d.Year
and Indices.Month = d.Month
and Indices.SurveyScope = d.SurveyScope
and Indices.Pre_Rev_Mark = d.Pre_Rev_Mark
and d.ComparisonTarget = '1'
and d.Seq = inSeq
and Indices.AggregationRange = AggregationMaster.AggregationRange
and Indices.ISIC = AggregationMaster.ISIC
and Indices.AggregationRange = '3'
and Indices.Year = inYear
and Indices.Month = inMonth
and Indices.SurveyScope = inSurveyScope
and Indices.Pre_Rev_Mark = inPre_Rev_Mark;

Begin
-- DBMS_OUTPUT.PUT_LINE(' Start p_ActualValue ' || to_char(sysdate, 'HH24:MI:SS'));
-- Initial Process
nPY_Y := inYear - 1;
nPY_M := inMonth;

if inMonth = 1 then
    nPM_Y := inYear - 1;
    nPM_M := 12;
else
    nPM_Y := inYear;
    nPM_M := inMonth - 1;
end if;

-- Summary Current Month Data Selecting
begin
select Indices.INDEXPR1, Indices.INDEXSP2, Indices.INDEXIV3,
Indices.INDEXIR4, Indices.INDEXCU5, Indices.INDEXLP6,
a. GR_PR1, a. GR_SP2, a. GR_IV3, a. GR_IR4, a. GR_C
U5, a. GR_LP6, b. GR_PR1, b. GR_SP2, b. GR_IV3, b. GR_IR4, b. GR_C
U5, b. GR_LP6 into recids.INDEXPR1, recids.INDEXSP2, recids.INDEXIV3,
recids.INDEXIR4, recids.INDEXCU5, recids.INDEXLP6,
recgrms.GR_PR1, recgrms.GR_SP2, recgrms.GR_IR4,
V3, recgrms.GR_IR4, recgrms.GR_CU5, recgrms.GR_L
P6, recgrys.GR_PR1, recgrys.GR_SP2, recgrys.GR_I
V3, recgrys.GR_IR4, recgrys.GR_CU5, recgrys.GR_L

```



```

        from Indices, GrowthRate a, GrowthRate b
        where Indices.AggregationRange = a.AggregationRange
        and Indices.ISIC = a.ISIC
        and Indices.Year = a.Year
        and Indices.Month = a.Month
        and Indices.SurveyScope = a.SurveyScope
        and Indices.Pre_Rev_Mark = a.Pre_Rev_Mark
        and a.ComparisonTarget = '0'
        and Indices.AggregationRange = b.AggregationRange
        and Indices.ISIC = b.ISIC
        and Indices.Year = b.Year
        and Indices.Month = b.Month
        and Indices.SurveyScope = b.SurveyScope
        and Indices.Pre_Rev_Mark = b.Pre_Rev_Mark
        and b.ComparisonTarget = '1'
        and Indices.AggregationRange = '1'
        and Indices.Year = inYear
        and Indices.Month = inMonth
        and Indices.SurveyScope = inSurveyScope
        and Indices.Pre_Rev_Mark = inPre_Rev_Mark;

exception
    when no_data_found then
        recids.INDEXPR1 := 0;
        recids.INDEXSP2 := 0;
        recids.INDEXIV3 := 0;
        recids.INDEXIR4 := 0;
        recids.INDEXCU5 := 0;
        recids.INDEXLP6 := 0;
        recgrms.GR_PR1 := 0;
        recgrms.GR_SP2 := 0;
        recgrms.GR_IV3 := 0;
        recgrms.GR_IR4 := 0;
        recgrms.GR_CU5 := 0;
        recgrms.GR_LP6 := 0;
        recgrys.GR_PR1 := 0;
        recgrys.GR_SP2 := 0;
        recgrys.GR_IV3 := 0;
        recgrys.GR_IR4 := 0;
        recgrys.GR_CU5 := 0;
        recgrys.GR_LP6 := 0;

end;

-- Summary Pre Month Data Selecting
begin
    select IndexPR1,
           IndexSP2,
           IndexIV3,
           IndexIR4,
           IndexCU5,
           IndexLP6
    into recids.IndexPR1,
        recids.IndexSP2,
        recids.IndexIV3,
        recids.IndexIR4,
        recids.IndexCU5,
        recids.IndexLP6
    from Indices
    where AggregationRange = '1'
    and Year = nPM_Y
    and Month = nPM_M
    and SurveyScope = inSurveyScope
    and Indices.Pre_Rev_Mark = '2';

exception
    when no_data_found then
        recids.IndexPR1 := 0;
        recids.IndexSP2 := 0;
        recids.IndexIV3 := 0;
        recids.IndexIR4 := 0;
        recids.IndexCU5 := 0;
        recids.IndexLP6 := 0;

end;

-- Summary Pre Year Data Selecting
begin

```

```

select  IndexPR1,
        IndexSP2,
        IndexIV3,
        IndexIR4,
        IndexCU5,
        IndexLP6
into    recidys.IndexPR1,
        recidys.IndexSP2,
        recidys.IndexIV3,
        recidys.IndexIR4,
        recidys.IndexCU5,
        recidys.IndexLP6
from    Indices
where   AggregationRange = '1'
and     Year = nPY_Y
and     Month = nPY_M
and     SurveyScope = inSurveyScope
and     Indices.Pre_Rev_Mark = '2';

exception
when no_data_found then
    recidys.IndexPR1      := null;
recidys.IndexSP2      := null;
recidys.IndexIV3      := null;
recidys.IndexIR4      := null;
recidys.IndexCU5      := null;
recidys.IndexLP6      := null;
end;

-- Summary Contribution CPM Data Selecting
begin
    select  sum(CD_PR1), sum(CD_SP2), sum(CD_IV3), sum(CD_IR4), sum(CD_CU5), sum(CD
_LP6),
                                                    sum(CR_PR1), sum(CR_SP2), sum(CR_IV3), sum(CR
_IR4), sum(CR_CU5), sum(CR_LP6)
    into    recc1ms.CD_PR1, recc1ms.CD_SP2, recc1ms.CD_IV3,
                                                    recc1ms.CD_IR4, recc1ms.CD_CU5, recc1ms.CD_L
P6,
                                                    recc1ms.CR_PR1, recc1ms.CR_SP2, recc1ms.CR_I
V3,
                                                    recc1ms.CR_IR4, recc1ms.CR_CU5, recc1ms.CR_L
P6
    from    ContributionForAll1
    where   Year = inYear
            and      Month = inMonth
            and      SurveyScope = inSurveyScope
            and      Pre_Rev_Mark = inPre_Rev_Mark
            and      ComparisonTarget = '0'
            and      Seq = inSeq;

exception
when no_data_found then
    recc1ms.CD_PR1 := 0;
    recc1ms.CD_SP2 := 0;
    recc1ms.CD_IV3 := 0;
    recc1ms.CD_IR4 := 0;
    recc1ms.CD_CU5 := 0;
    recc1ms.CD_LP6 := 0;
    recc1ms.CR_PR1 := 0;
    recc1ms.CR_SP2 := 0;
    recc1ms.CR_IV3 := 0;
    recc1ms.CR_IR4 := 0;
    recc1ms.CR_CU5 := 0;
    recc1ms.CR_LP6 := 0;

end;

-- Summary Contribution CPY Data Selecting
begin
    select  sum(CD_PR1), sum(CD_SP2), sum(CD_IV3), sum(CD_IR4), sum(CD_CU5), sum(CD
_LP6),
                                                    sum(CR_PR1), sum(CR_SP2), sum(CR_IV3), sum(CR
_IR4), sum(CR_CU5), sum(CR_LP6)
    into    recc1ys.CD_PR1, recc1ys.CD_SP2, recc1ys.CD_IV3,
                                                    recc1ys.CD_IR4, recc1ys.CD_CU5, recc1ys.CD_L
P6,
                                                    recc1ys.CR_PR1, recc1ys.CR_SP2, recc1ys.CR_I
V3,

```

P6

reccllys. CR_IR4, reccllys. CR_CU5, reccllys. CR_L

```

from ContributionForAll1
where      Year = inYear
and        Month = inMonth
and        SurveyScope = inSurveyScope
and        Pre_Rev_Mark = inPre_Rev_Mark
and        ComparisonTarget = '1'
and        Seq = inSeq;

exception
when no_data_found then
    reccllys. CD_PR1 := 0;
    reccllys. CD_SP2 := 0;
    reccllys. CD_IV3 := 0;
    reccllys. CD_IR4 := 0;
    reccllys. CD_CU5 := 0;
    reccllys. CD_LP6 := 0;
    reccllys. CR_PR1 := 0;
    reccllys. CR_SP2 := 0;
    reccllys. CR_IV3 := 0;
    reccllys. CR_IR4 := 0;
    reccllys. CR_CU5 := 0;
    reccllys. CR_LP6 := 0;

end;

-- Indices Cursor Open Fetch
open      csrid;
fetch     csrid
into      recid. ISIC, recid. IndexPR1, recid. IndexSP2, recid. IndexIV3,
          recid. IndexIR4, recid. IndexCU5, recid. IndexLP6,
          recgrm. GR_PR1, recgrm. GR_SP2, recgrm. GR_IV3,
          recgrm. GR_IR4, recgrm. GR_CU5, recgrm. GR_LP6,
          recgry. GR_PR1, recgry. GR_SP2, recgry. GR_IV3,
          recgry. GR_IR4, recgry. GR_CU5, recgry. GR_LP6,
          recclm. CD_PR1, recclm. CD_SP2, recclm. CD_IV3,
          recclm. CD_IR4, recclm. CD_CU5, recclm. CD_LP6,
          recclm. CR_PR1, recclm. CR_SP2, recclm. CR_IV3,
          recclm. CR_IR4, recclm. CR_CU5, recclm. CR_LP6,
          recclly. CD_PR1, recclly. CD_SP2, recclly. CD_IV3,
          recclly. CD_IR4, recclly. CD_CU5, recclly. CD_LP6,
          recclly. CR_PR1, recclly. CR_SP2, recclly. CR_IV3,
          recclly. CR_IR4, recclly. CR_CU5, recclly. CR_LP6, recam. In
          dustryTypeShortName;

-- Indices Cursor Fetch Looping
while csrid%found loop

-- Pre Month Data Selecting
begin
    select
        IndexPR1,
        IndexSP2,
        IndexIV3,
        IndexIR4,
        IndexCU5,
        IndexLP6
    into   recidm. IndexPR1,
          recidm. IndexSP2,
          recidm. IndexIV3,
          recidm. IndexIR4,
          recidm. IndexCU5,
          recidm. IndexLP6
    from   Indices
    where  AggregationRange = '3'
    and    ISIC = recid. ISIC
    and    Year = nPM_Y
    and    Month = nPM_M
    and    SurveyScope = inSurveyScope
    and    Indices. Pre_Rev_Mark = '2';

exception
when no_data_found then
    recidm. IndexSP2 := 0;
    recidm. IndexIV3 := 0;
    recidm. IndexIR4 := 0;

```

```

recidm.IndexCU5 := 0;
recidm.IndexLP6 := 0;
end;

-- Pre Year Data Selecting
begin
    select
        IndexPR1,
        IndexSP2,
        IndexIV3,
        IndexIR4,
        IndexCU5,
        IndexLP6
    into recidy.IndexPR1,
        recidy.IndexSP2,
        recidy.IndexIV3,
        recidy.IndexIR4,
        recidy.IndexCU5,
        recidy.IndexLP6
    from Indices
    where AggregationRange = '3'
    and ISIC = recid.ISIC
    and Year = nPY_Y
    and Month = nPY_M
    and SurveyScope = inSurveyScope
    and Indices.Pre_Rev_Mark = '2';

    exception
        when no_data_found then
            recidy.IndexPR1 := null;
            recidy.IndexSP2 := null;
            recidy.IndexIV3 := null;
            recidy.IndexIR4 := null;
            recidy.IndexCU5 := null;
            recidy.IndexLP6 := null;
        end;

-- Insert Index List Table(PR1)
p_InsIndexList(inSeq, '2', '1', inYear, inMonth, substr(recid.ISIC, 1, 4), 'XXX',
    recam.IndustryTypeShortName, null,
    recid.IndexPR1, recidm.IndexPR1, recidy.IndexPR1, recgrm.GR_PR1, recgr
y.GR_PR1,
    recc1m.CD_PR1, recc1y.CD_PR1, recc1m.CR_PR1, recc1y.CR_PR1,
    recids.IndexPR1, recidms.IndexPR1, recidys.IndexPR1, recgrms.GR_PR1, r
ecgrys.GR_PR1,
    recc1ms.CD_PR1, recc1ys.CD_PR1, recc1ms.CR_PR1, recc1ys.CR_PR1);

-- Insert Index List Table(SP2)
p_InsIndexList(inSeq, '2', '2', inYear, inMonth, substr(recid.ISIC, 1, 4), 'XXX',
    recam.IndustryTypeShortName, null,
    recid.IndexSP2, recidm.IndexSP2, recidy.IndexSP2, recgrm.GR_SP2, recgr
y.GR_SP2,
    recc1m.CD_SP2, recc1y.CD_SP2, recc1m.CR_SP2, recc1y.CR_SP2,
    recids.IndexSP2, recidms.IndexSP2, recidys.IndexSP2, recgrms.GR_SP2, r
ecgrys.GR_SP2,
    recc1ms.CD_SP2, recc1ys.CD_SP2, recc1ms.CR_SP2, recc1ys.CR_SP2);

-- Insert Index List Table(IV3)
p_InsIndexList(inSeq, '2', '3', inYear, inMonth, substr(recid.ISIC, 1, 4), 'XXX',
    recam.IndustryTypeShortName, null,
    recid.IndexIV3, recidm.IndexIV3, recidy.IndexIV3, recgrm.GR_IV3, recgr
y.GR_IV3,
    recc1m.CD_IV3, recc1y.CD_IV3, recc1m.CR_IV3, recc1y.CR_IV3,
    recids.IndexIV3, recidms.IndexIV3, recidys.IndexIV3, recgrms.GR_IV3, r
ecgrys.GR_IV3,
    recc1ms.CD_IV3, recc1ys.CD_IV3, recc1ms.CR_IV3, recc1ys.CR_IV3);

-- Insert Index List Table(IR4)
p_InsIndexList(inSeq, '2', '4', inYear, inMonth, substr(recid.ISIC, 1, 4), 'XXX',
    recam.IndustryTypeShortName, null,
    recid.IndexIR4, recidm.IndexIR4, recidy.IndexIR4, recgrm.GR_IR4, recgr
y.GR_IR4,
    recc1m.CD_IR4, recc1y.CD_IR4, recc1m.CR_IR4, recc1y.CR_IR4,
    recids.IndexIR4, recidms.IndexIR4, recidys.IndexIR4, recgrms.GR_IR4, r
ecgrys.GR_IR4,
    recc1ms.CD_IR4, recc1ys.CD_IR4, recc1ms.CR_IR4, recc1ys.CR_IR4);

```

```

-- Insert Index List Table(CU5)
      p_InsIndexList(inSeq, '2', '5', inYear, inMonth, substr(recid. ISIC, 1, 4), 'XXX',
                    recam. IndustryTypeShortName, null,
                    recid. IndexCU5, recidm. IndexCU5, recidy. IndexCU5, recgrm. GR_CU5, recgr
y. GR_CU5,
                    recclm. CD_CU5, reccliy. CD_CU5, recclm. CR_CU5, reccliy. CR_CU5,
                    recids. IndexCU5, recidms. IndexCU5, recidys. IndexCU5, recgrms. GR_CU5, r
ecgrys. GR_CU5,
                    recclms. CD_CU5, reccllys. CD_CU5, recclms. CR_CU5, reccllys. CR_CU5);

-- Insert Index List Table(LP6)
      p_InsIndexList(inSeq, '2', '6', inYear, inMonth, substr(recid. ISIC, 1, 4), 'XXX',
                    recam. IndustryTypeShortName, null,
                    recid. IndexLP6, recidm. IndexLP6, recidy. IndexLP6, recgrm. GR_LP6, recgr
y. GR_LP6,
                    recclm. CD_LP6, reccliy. CD_LP6, recclm. CR_LP6, reccliy. CR_LP6,
                    recids. IndexLP6, recidms. IndexLP6, recidys. IndexLP6, recgrms. GR_LP6, r
ecgrys. GR_LP6,
                    recclms. CD_LP6, reccllys. CD_LP6, recclms. CR_LP6, reccllys. CR_LP6);

-- Fetch Indices Table
      fetch      csrid
      into       recid. ISIC, recid. IndexPR1, recid. IndexSP2, recid. IndexIV3,
                    recid. IndexIR4, recid. IndexCU5, recid. IndexLP6,
                    recgrm. GR_PR1, recgrm. GR_SP2, recgrm. GR_IV3,
                    recgrm. GR_IR4, recgrm. GR_CU5, recgrm. GR_LP6,
                    recgry. GR_PR1, recgry. GR_SP2, recgry. GR_IV3,
                    recgry. GR_IR4, recgry. GR_CU5, recgry. GR_LP6,
                    recclm. CD_PR1, recclm. CD_SP2, recclm. CD_IV3,
                    recclm. CD_IR4, recclm. CD_CU5, recclm. CD_LP6,
                    recclm. CR_PR1, recclm. CR_SP2, recclm. CR_IV3,
                    recclm. CR_IR4, recclm. CR_CU5, recclm. CR_LP6,
                    reccliy. CD_PR1, reccliy. CD_SP2, reccliy. CD_IV3,
                    reccliy. CD_IR4, reccliy. CD_CU5, reccliy. CD_LP6,
                    reccliy. CR_PR1, reccliy. CR_SP2, reccliy. CR_IV3,
                    reccliy. CR_IR4, reccliy. CR_CU5, reccliy. CR_LP6, recam. In
dustryTypeShortName;

      end loop;

      close csrid;

end;

-----
-- Commodity In Industry Data Making
-----

procedure p_CommlnIndustry (
      inSeq                      in      number,
      inAggregationRange        in      Varchar2,
      inISIC                    in      Varchar2,
      inYear                    in      number,
      inMonth                   in      number,
      inSurveyScope             in      varchar2,
      inPre_Rev_Mark            in      varchar2) is

-- Record Area Define
      recid      Indices%rowtype;
      recidm     Indices%rowtype;
      recidy     Indices%rowtype;
      recgrm     growthRate%rowtype;
      recgry     growthRate%rowtype;
      recclm     ContributionForIndustry%rowtype;
      reccliy    ContributionForIndustry%rowtype;
      recclm     CommodityMaster%rowtype;

      recids     Indices%rowtype;
      recidms    Indices%rowtype;
      recidys    Indices%rowtype;
      recgrms    growthRate%rowtype;
      recgrys    growthRate%rowtype;
      recclms    ContributionForIndustry%rowtype;
      reccliys   ContributionForIndustry%rowtype;
      recams     AggregationMaster%rowtype;

-- Work Area
      nPM_Y      number;

```

```

nPM_M          number;
nPY_Y          number;
nPY_M          number;

sISIC2d        Varchar2(2);
sISIC4d        Varchar2(4);

sOldISIC       Varchar2(4);

-- Indices Table Cursor
Cursor csrid is
select Indices. ISIC, Indices. ItemType, Indices. IndexCommodityCode,
       Indices. INDEXPR1, Indices. INDEXSP2, Indices. INDEXIV3,
       Indices. INDEXIR4, Indices. INDEXCU5, Indices. INDEXLP6,
       a. GR_PR1, a. GR_SP2, a. GR_IV3, a. GR_IR4, a. GR_C
U5, a. GR_LP6,
       b. GR_PR1, b. GR_SP2, b. GR_IV3, b. GR_IR4, b. GR_C
U5, b. GR_LP6,
       c. CD_PR1, c. CD_SP2, c. CD_IV3, c. CD_IR4, c. CD_C
U5, c. CD_LP6,
       c. CR_PR1, c. CR_SP2, c. CR_IV3, c. CR_IR4, c. CR_C
U5, c. CR_LP6,
       d. CD_PR1, d. CD_SP2, d. CD_IV3, d. CD_IR4, d. CD_C
U5, d. CD_LP6,
       d. CR_PR1, d. CR_SP2, d. CR_IV3, d. CR_IR4, d. CR_C
U5, d. CR_LP6,
       CommodityMaster. CommodityShortName
from Indices, GrowthRate a, GrowthRate b,
      ContributionForIndustry c, ContributionForIndustry d, Commod
ityMaster
where Indices. AggregationRange = a. AggregationRange
and Indices. ISIC = a. ISIC
and Indices. ItemType = a. ItemType
and Indices. IndexCommodityCode = a. IndexCommodityCode
and Indices. Year = a. Year
and Indices. Month = a. Month
and Indices. SurveyScope = a. SurveyScope
and Indices. Pre_Rev_Mark = a. Pre_Rev_Mark
and a. ComparisonTarget = '0'
and Indices. AggregationRange = b. AggregationRange
and Indices. ISIC = b. ISIC
and Indices. ItemType = b. ItemType
and Indices. IndexCommodityCode = b. IndexCommodityCode
and Indices. Year = b. Year
and Indices. Month = b. Month
and Indices. SurveyScope = b. SurveyScope
and Indices. Pre_Rev_Mark = b. Pre_Rev_Mark
and b. ComparisonTarget = '1'
and Indices. ISIC = c. ISIC
and Indices. ItemType = c. ItemType
and Indices. IndexCommodityCode = c. CommodityCode
and Indices. Year = c. Year
and Indices. Month = c. Month
and Indices. SurveyScope = c. SurveyScope
and Indices. Pre_Rev_Mark = c. Pre_Rev_Mark
and c. ComparisonTarget = '0'
and c. Seq = inSeq
and Indices. ISIC = d. ISIC
and Indices. ItemType = d. ItemType
and Indices. IndexCommodityCode = d. CommodityCode
and Indices. Year = d. Year
and Indices. Month = d. Month
and Indices. SurveyScope = d. SurveyScope
and Indices. Pre_Rev_Mark = d. Pre_Rev_Mark
and d. ComparisonTarget = '1'
and d. Seq = inSeq
and Indices. ISIC = CommodityMaster. ISIC
and Indices. ItemType = CommodityMaster. ItemType
and Indices. IndexCommodityCode = CommodityMaster. CommodityCode
and Indices. AggregationRange = '5'
and Indices. ItemType in('1', '6')
and Indices. Year = inYear
and Indices. Month = inMonth
and Indices. SurveyScope = inSurveyScope
and Indices. Pre_Rev_Mark = inPre_Rev_Mark
order by Indices. ISIC;

```

```

Begin
-- DBMS_OUTPUT.PUT_LINE(' Start p_ActualValue ' || to_char(sysdate,'HH24:MI:SS'));
-- Initial Process
nPY_Y := inYear - 1;
nPY_M := inMonth;

if inMonth = 1 then
    nPM_Y := inYear - 1;
    nPM_M := 12;
else
    nPM_Y := inYear;
    nPM_M := inMonth - 1;
end if;

sISIC2d := substr(inISIC, 1, 2);
sISIC4d := substr(inISIC, 1, 4);

sOldISIC := null;

-- Indices Cursor Open Fetch
open csrid;
fetch csrid
into recid. ISIC, recid. ItemType, recid. IndexCommodityCode,
recid. IndexPR1, recid. IndexSP2, recid. IndexIV3,
recid. IndexIR4, recid. IndexCU5, recid. IndexLP6,
recgrm. GR_PR1, recgrm. GR_SP2, recgrm. GR_IV3,
recgrm. GR_IR4, recgrm. GR_CU5, recgrm. GR_LP6,
recgry. GR_PR1, recgry. GR_SP2, recgry. GR_IV3,
recgry. GR_IR4, recgry. GR_CU5, recgry. GR_LP6,
reccim. CD_PR1, reccim. CD_SP2, reccim. CD_IV3,
reccim. CD_IR4, reccim. CD_CU5, reccim. CD_LP6,
reccim. CR_PR1, reccim. CR_SP2, reccim. CR_IV3,
reccim. CR_IR4, reccim. CR_CU5, reccim. CR_LP6,
recciy. CD_PR1, recciy. CD_SP2, recciy. CD_IV3,
recciy. CD_IR4, recciy. CD_CU5, recciy. CD_LP6,
recciy. CR_PR1, recciy. CR_SP2, recciy. CR_IV3,
recciy. CR_IR4, recciy. CR_CU5, recciy. CR_LP6, reccm. Co
mmodityShortName;

-- Indices Cursor Fetch Looping
while csrid%found loop
    if (inAggregationRange = '1')
    or (inAggregationRange = '2' and substr(recid. ISIC, 1, 2) = sISIC2d)
    or (inAggregationRange = '3' and substr(recid. ISIC, 1, 4) = sISIC4d) th
en
    if sOldISIC = substr(recid. ISIC, 1, 4) then
        null;
    else
        sOldISIC := substr(recid. ISIC, 1, 4);
    end if;
end while;

-- Summary Current Month Data Selecting
begin
select Indices. INDEXPR1, Indices. INDEXSP2, Indices.
INDEXIV3,
Indices. INDEXIR4, Indices. INDEXCU5, Indices.
INDEXLP6,
a. GR_PR1, a. GR_SP2,
a. GR_IV3, a. GR_IR4, a. GR_CU5, a. GR_LP6,
b. GR_PR1, b. GR_SP2,
b. GR_IV3, b. GR_IR4, b. GR_CU5, b. GR_LP6,
AggregationMaster. I
ndustryTypeShortName
into recids. INDEXPR1, recids. INDEXSP2, re
cids. INDEXIV3,
recids. INDEXIR4, recids. INDEXCU5, recids. IND
EXLP6,
recgrms. GR_PR1, recg
rms. GR_SP2, recgrms. GR_IV3,
recgrms. GR_IR4, recg
rms. GR_CU5, recgrms. GR_LP6,
recgrys. GR_PR1, recg
rys. GR_SP2, recgrys. GR_IV3,
recgrys. GR_IR4, recg
rys. GR_CU5, recgrys. GR_LP6,
recams. IndustryType
ShortName

```

```

ionMaster
ge
from Indices, GrowthRate a, GrowthRate b, Aggregat
where Indices.AggregationRange = a.AggregationRan

and Indices.ISIC = a.ISIC
and Indices.Year = a.Year
and Indices.Month = a.Month
and Indices.SurveyScope = a.SurveyScope
and Indices.Pre_Rev_Mark = a.Pre_Rev_Mark
and a.ComparisonTarget = '0'
and Indices.AggregationRange = b.AggregationRange
and Indices.ISIC = b.ISIC
and Indices.Year = b.Year
and Indices.Month = b.Month
and Indices.SurveyScope = b.SurveyScope
and Indices.Pre_Rev_Mark = b.Pre_Rev_Mark
and b.ComparisonTarget = '1'
and Indices.AggregationRange = AggregationMaster.Aggre

gationRange
and Indices.ISIC = AggregationMaster.ISIC
and Indices.AggregationRange = '3'
and Indices.ISIC like substr(recid.ISIC, 1, 4) ||

'%'

and Indices.Year = inYear
and Indices.Month = inMonth
and Indices.SurveyScope = inSurveyScope
and Indices.Pre_Rev_Mark = inPre_Rev_Mark;

exception
when no_data_found then
recids.INDEXPR1 := 0;
recids.INDEXSP2 := 0;
recids.INDEXIV3 := 0;
recids.INDEXIR4 := 0;
recids.INDEXCU5 := 0;
recids.INDEXLP6 := 0;
recgrms.GR_PR1 := 0;
recgrms.GR_SP2 := 0;
recgrms.GR_IV3 := 0;
recgrms.GR_IR4 := 0;
recgrms.GR_CU5 := 0;
recgrms.GR_LP6 := 0;
recgrys.GR_PR1 := 0;
recgrys.GR_SP2 := 0;
recgrys.GR_IV3 := 0;
recgrys.GR_IR4 := 0;
recgrys.GR_CU5 := 0;
recgrys.GR_LP6 := 0;
recams.IndustryTypeShortName := null;

end;

-- Summary Pre Month Data Selecting
begin
select IndexPR1,
IndexSP2,
IndexIV3,
IndexIR4,
IndexCU5,
IndexLP6
into recidms.IndexPR1,
recidms.IndexSP2,
recidms.IndexIV3,
recidms.IndexIR4,
recidms.IndexCU5,
recidms.IndexLP6
from Indices
where AggregationRange = '3'
and ISIC like substr(recid.ISIC, 1, 4) ||

'%'

and Year = nPM_Y
and Month = nPM_M
and SurveyScope = inSurveyScope
and Indices.Pre_Rev_Mark = '2';

exception
when no_data_found then
recidms.IndexPR1 := 0;

```



```

recidms.IndexSP2 := 0;
recidms.IndexIV3 := 0;
recidms.IndexIR4 := 0;
recidms.IndexCU5 := 0;
recidms.IndexLP6 := 0;
end;

-- Summary Pre Year Data Selecting
begin
    select IndexPR1,
           IndexSP2,
           IndexIV3,
           IndexIR4,
           IndexCU5,
           IndexLP6
           into recidys.IndexPR1,
              recidys.IndexSP2,
              recidys.IndexIV3,
              recidys.IndexIR4,
              recidys.IndexCU5,
              recidys.IndexLP6
           from Indices
           where AggregationRange = '3'
           and ISIC like substr(recid.ISIC, 1, 4) ||

           and Year = nPY_Y
           and Month = nPY_M
           and SurveyScope = inSurveyScope
           and Indices.Pre_Rev_Mark = '2';

    exception
        when no_data_found then
            recidys.IndexPR1 := null;
            recidys.IndexSP2 := null;
            recidys.IndexIV3 := null;
            recidys.IndexIR4 := null;
            recidys.IndexCU5 := null;
            recidys.IndexLP6 := null;
        end;

-- Summary Contribution CPM Data Selecting
begin
    select sum(CD_PR1), sum(CD_SP2), sum(CD_IV3), sum(CD
    _IR4), sum(CD_CU5), sum(CD_LP6),
           sum(CR_PR1), sum(CR_
    SP2), sum(CR_IV3), sum(CR_IR4), sum(CR_CU5), sum(CR_LP6)
    into reccims.CD_PR1, reccims.CD_SP2, recc
    ims.CD_IV3,
           reccims.CD_IR4, recc
    ims.CD_CU5, reccims.CD_LP6,
           reccims.CR_PR1, recc
    ims.CR_SP2, reccims.CR_IV3,
           reccims.CR_IR4, recc
    ims.CR_CU5, reccims.CR_LP6

    from ContributionForIndustry
    where ISIC like substr(recid.ISIC, 1, 4) ||

    and Year = inYear
    and Month = inMonth
    and SurveyScope = inSurveyScope
    and Pre_Rev_Mark = inPre_Rev_M

    and ComparisonTarget = '0'
    and Seq = inSeq;

    exception
        when no_data_found then
            reccims.CD_PR1 := 0;
            reccims.CD_SP2 := 0;
            reccims.CD_IV3 := 0;
            reccims.CD_IR4 := 0;
            reccims.CD_CU5 := 0;
            reccims.CD_LP6 := 0;
            reccims.CR_PR1 := 0;
            reccims.CR_SP2 := 0;
            reccims.CR_IV3 := 0;
            reccims.CR_IR4 := 0;

```

```

reccims.CR_CU5 := 0;
reccims.CR_LP6 := 0;

end;

-- Summary Contribution CPY Data Selecting
begin
    select sum(CD_PR1), sum(CD_SP2), sum(CD_IV3), sum(CD
    _IR4), sum(CD_CU5), sum(CD_LP6),
    sum(CR_PR1), sum(CR
    SP2), sum(CR_IV3), sum(CR_IR4), sum(CR_CU5), sum(CR_LP6)
    into recciys.CD_PR1, recciys.CD_SP2, recc
    iys.CD_IV3,
    recciys.CD_IR4, recc
    iys.CD_CU5, recciys.CD_LP6,
    recciys.CR_PR1, recc
    iys.CR_SP2, recciys.CR_IV3,
    recciys.CR_IR4, recc
    iys.CR_CU5, recciys.CR_LP6

    from ContributionForIndustry
    where ISIC like substr(recid.ISIC, 1, 4) ||
    '%'

    and Year = inYear
    and Month = inMonth
    and SurveyScope = inSurveyScope
    and Pre_Rev_Mark = inPre_Rev_M
    ark

    and ComparisonTarget = '1'
    and Seq = inSeq;

exception
    when no_data_found then
        recciys.CD_PR1 := 0;
        recciys.CD_SP2 := 0;
        recciys.CD_IV3 := 0;
        recciys.CD_IR4 := 0;
        recciys.CD_CU5 := 0;
        recciys.CD_LP6 := 0;
        recciys.CR_PR1 := 0;
        recciys.CR_SP2 := 0;
        recciys.CR_IV3 := 0;
        recciys.CR_IR4 := 0;
        recciys.CR_CU5 := 0;
        recciys.CR_LP6 := 0;

end if;

-- Pre Month Data Selecting
begin
    select
        IndexPR1,
        IndexSP2,
        IndexIV3,
        IndexIR4,
        IndexCU5,
        IndexLP6
    into recidm.IndexPR1,
    recidm.IndexSP2,
    recidm.IndexIV3,
    recidm.IndexIR4,
    recidm.IndexCU5,
    recidm.IndexLP6
    from Indices
    where AggregationRange = '5'
    and ISIC = recid.ISIC
    and ItemType = recid.ItemType
    and IndexCommodityCode = recid.IndexCommodityCode
    and Year = nPM_Y
    and Month = nPM_M
    and SurveyScope = inSurveyScope
    and Indices.Pre_Rev_Mark = '2';

exception
    when no_data_found then
        recidm.IndexPR1 := 0;
        recidm.IndexSP2 := 0;
        recidm.IndexIV3 := 0;
        recidm.IndexIR4 := 0;

```

```

recidm.IndexCU5      := 0;
recidm.IndexLP6      := 0;
end;

-- Pre Year Data Selecting
begin
    select
        IndexPR1,
        IndexSP2,
        IndexIV3,
        IndexIR4,
        IndexCU5,
        IndexLP6
    into recidy.IndexPR1,
        recidy.IndexSP2,
        recidy.IndexIV3,
        recidy.IndexIR4,
        recidy.IndexCU5,
        recidy.IndexLP6
    from Indices
    where AggregationRange = '5'
    and    ISIC = recid.ISIC
    and    ItemType = recid.ItemType
    and    IndexCommodityCode = recid.IndexCommodityCode
    and    Year = nPY_Y
    and    Month = nPY_M
    and    SurveyScope = inSurveyScope
    and    Indices.Pre_Rev_Mark = '2';

    exception
    when no_data_found then
        recidy.IndexPR1 := null;
        recidy.IndexSP2 := null;
        recidy.IndexIV3 := null;
        recidy.IndexIR4 := null;
        recidy.IndexCU5 := null;
        recidy.IndexLP6 := null;
    end;

-- Item Type 1 Process
    if recid.ItemType = '1' then

-- Insert Index List Table(PR1)
        p_InsIndexList(inSeq, '3', '1', inYear, inMonth, recid.ISIC, recid.Index
CommodityCode,
                        recams.IndustryTypeShortName, reccm.CommodityShortName,
                        recid.IndexPR1, recidm.IndexPR1, recidy.IndexPR1, recgrm.GR_P
R1, recgry.GR_PR1,
                        reccim.CD_PR1, recciy.CD_PR1, reccim.CR_PR1, recciy.CR_PR1,
                        recids.IndexPR1, recidms.IndexPR1, recidys.IndexPR1,
                        recgrms.GR_PR1, recgrys.GR_PR1,
                        reccims.CD_PR1, recciys.CD_PR1, reccims.CR_PR1, recci
ys.CR_PR1);

-- Insert Index List Table(SP2)
        p_InsIndexList(inSeq, '3', '2', inYear, inMonth, recid.ISIC, recid.Index
CommodityCode,
                        recams.IndustryTypeShortName, reccm.CommodityShortName,
                        recid.IndexSP2, recidm.IndexSP2, recidy.IndexSP2, recgrm.GR_S
P2, recgry.GR_SP2,
                        reccim.CD_SP2, recciy.CD_SP2, reccim.CR_SP2, recciy.CR_SP2,
                        recids.IndexSP2, recidms.IndexSP2, recidys.IndexSP2,
                        recgrms.GR_SP2, recgrys.GR_SP2,
                        reccims.CD_SP2, recciys.CD_SP2, reccims.CR_SP2, recci
ys.CR_SP2);

-- Insert Index List Table(IV3)
        p_InsIndexList(inSeq, '3', '3', inYear, inMonth, recid.ISIC, recid.Index
CommodityCode,
                        recams.IndustryTypeShortName, reccm.CommodityShortName,
                        recid.IndexIV3, recidm.IndexIV3, recidy.IndexIV3, recgrm.GR_I
V3, recgry.GR_IV3,
                        reccim.CD_IV3, recciy.CD_IV3, reccim.CR_IV3, recciy.CR_IV3,
                        recids.IndexIV3, recidms.IndexIV3, recidys.IndexIV3,
                        recgrms.GR_IV3, recgrys.GR_IV3,
                        reccims.CD_IV3, recciys.CD_IV3, reccims.CR_IV3, recci
ys.CR_IV3);

```

```

-- Insert Index List Table(IR4)
      p_InsIndexList(inSeq, '3', '4', inYear, inMonth, recid. ISIC, recid. Index
CommodityCode,
      recams. IndustryTypeShortName, reccm. CommodityShortName,
      recid. IndexIR4, recidm. IndexIR4, recidy. IndexIR4, recgrm. GR_I
R4, recgry. GR_IR4,
      reccim. CD_IR4, recciy. CD_IR4, reccim. CR_IR4, recciy. CR_IR4,
      recids. IndexIR4, recidms. IndexIR4, recidys. IndexIR4,
      recgrms. GR_IR4, recgrys. GR_IR4,
      reccims. CD_IR4, recciys. CD_IR4, reccims. CR_IR4, recci
ys. CR_IR4);
-- Item Type 6 Process
      elsif recid. ItemType = '6' then
-- Insert Index List Table(CU5)
      p_InsIndexList(inSeq, '3', '5', inYear, inMonth, recid. ISIC, recid. Index
CommodityCode,
      recams. IndustryTypeShortName, reccm. CommodityShortName,
      recid. IndexCU5, recidm. IndexCU5, recidy. IndexCU5, recgrm. GR_C
U5, recgry. GR_CU5,
      reccim. CD_CU5, recciy. CD_CU5, reccim. CR_CU5, recciy. CR_CU5,
      recids. IndexCU5, recidms. IndexCU5, recidys. IndexCU5,
      recgrms. GR_CU5, recgrys. GR_CU5,
      reccims. CD_CU5, recciys. CD_CU5, reccims. CR_CU5, recci
ys. CR_CU5);
      end if;
      end if;
-- Fetch Indices Table
      fetch csrid
      into recid. ISIC, recid. ItemType, recid. IndexCommodityCode,
      recid. IndexPR1, recid. IndexSP2, recid. IndexIV3,
      recid. IndexIR4, recid. IndexCU5, recid. IndexLP6,
      recgrm. GR_PR1, recgrm. GR_SP2, recgrm. GR_IV3,
      recgrm. GR_IR4, recgrm. GR_CU5, recgrm. GR_LP6,
      recgry. GR_PR1, recgry. GR_SP2, recgry. GR_IV3,
      recgry. GR_IR4, recgry. GR_CU5, recgry. GR_LP6,
      reccim. CD_PR1, reccim. CD_SP2, reccim. CD_IV3,
      reccim. CD_IR4, reccim. CD_CU5, reccim. CD_LP6,
      reccim. CR_PR1, reccim. CR_SP2, reccim. CR_IV3,
      reccim. CR_IR4, reccim. CR_CU5, reccim. CR_LP6,
      recciy. CD_PR1, recciy. CD_SP2, recciy. CD_IV3,
      recciy. CD_IR4, recciy. CD_CU5, recciy. CD_LP6,
      recciy. CR_PR1, recciy. CR_SP2, recciy. CR_IV3,
      recciy. CR_IR4, recciy. CR_CU5, recciy. CR_LP6, reccm. Co
mmodityShortName;
      end loop;
      close csrid;
end;
end IndexListMk;
/
show errors
/
--commit;

```

```

/*
=====
Package Name InputFunction
  Create Date 1999/09/01
  Update Date 1999/11/02
  K. SHIBAMOTO @ JICA STUDY TEAM
=====
Functions and Procedures For Survey Data Input
1. Caluculation of Response Rate for each survey scope
2. Create Collection rate list in temporary table
@e:#userjica#storedproc#inputfunction
=====
*/

CREATE OR REPLACE PACKAGE InputFunction IS
-- Caluculation of Response Rate for each survey scope
-----
PROCEDURE CalcResponseRate(
  pISIC          IN VARCHAR2, -- ISIC
  pYear          IN NUMBER,   -- Year
  pMonth         IN NUMBER,   -- Month
  pScope         IN VARCHAR2, -- Target Scope For Calculation
  pContinuousRespondent IN VARCHAR2, -- ContinuousRespondent
  pPopulationNumber OUT NUMBER, -- Number of Target Establishments
  pCollectedNumber OUT NUMBER, -- Number of Establishments that answered the q
  uestionnaire
  pCollectionRate OUT NUMBER -- (pCollectedNumber / pPopulationNumber) * 100
);
-----

-- Create Collection rate list in temporary table
-----
PROCEDURE CreateResponseRate(
  pSeq          IN SMALLINT, -- Seq
  pISIC         IN VARCHAR2, -- ISIC
  pYear         IN NUMBER,   -- Year
  pMonth        IN NUMBER,   -- Month
  pScope        IN VARCHAR2, -- Target Scope For Calculation
  pContinuousRespondent IN VARCHAR2, -- ContinuousRespondent
  pReturn       OUT NUMBER   -- 0: OK , 1:Error
);
-----

END;
/
show errors

/*
=====
Package Name: InputFunction
  Create Date 1999/09/01
  Update Date 1999/11/03
  K. SHIBAMOTO @JICA STUDY TEAM
=====
Functions and Procedures For Survey Data Input
1. Caluculation of Response Rate for each survey scope
2. Create Collection rate list in temporary table
TEST - 1 -
variable pC number;
variable pP number;
variable pR number;
exec InputFunction.CalcResponseRate('151201', 1999, 2, '2', '0', :pP, :pC, :pR);
print pP;
print pC;
print pCol;
TEST - 2 -
variable Num Number;
exec InputFunction.CreateResponseRate(10, '151201', 1999, 2, 1, 1, :Num);
||
*/

CREATE OR REPLACE PACKAGE BODY InputFunction IS
-- Caluculation of Response Rate for each survey scope
-----
PROCEDURE CalcResponseRate(

```

```

        pISIC          IN  VARCHAR2, -- ISIC
        pYear          IN  NUMBER,   -- Year
        pMonth         IN  NUMBER,   -- Month
        pScope         IN  VARCHAR2, -- Target Scope For Calculation
        pContinuousRespondent IN  VARCHAR2, -- ContinuousRespondent(0 : All , 1 : Continuo
us Only)
        pPopulationNumber OUT NUMBER, -- Number of Target Establishments
        pCollectedNumber OUT NUMBER, -- Number of Establishments that answered the
questionnaire
        PCollectionRate OUT NUMBER   -- (pCollectedNumber / pPopulationNumber) * 100
    )
    --return number

IS
-- Definition of Variables --
    nPopulation      NUMBER;
    nCollected      NUMBER;
    nCollectionRate  NUMBER;
    --sSurveyScope   VARCHAR2(1);

BEGIN
    -- Get number of target establishments
    /* ContinuousRespondent
    || 0 -> 0 or 1 (All)
    || 1 -> 1 (Only Continuous Answering Establishment)
    */
    select count(*) into nPopulation
    from EstablishmentMaster
    where ISIC = pISIC
    and SurveyScope <= pScope
    and ContinuousRespondent >= pContinuousRespondent;
--DBMS_OUTPUT.PUT_LINE(' nPopulation --> ' ||to_char(nPopulation) );

    -- Get number of collected establishments
    select count(*) into nCollected
    from EstablishmentMaster EM, SurveyHeader SH
    where EM. ISIC = pISIC
    and EM. SurveyScope <= pScope
    and EM. ContinuousRespondent >= pContinuousRespondent
    and EM. ISIC = SH. ISIC
    and EM. RegistrationNo = SH. RegistrationNo
    and SH. Year = pYear
    and SH. Month = pMonth
    and SH. EstimatedMark IN (0,1); -- ManualInput and Modified Estimated Questionnai
re

--DBMS_OUTPUT.PUT_LINE(' nCollected --> ' ||to_char(nCollected) );
    -- Caluculate Collected Rate
    IF nPopulation != 0 THEN
        nCollectionRate := ROUND((nCollected / nPopulation)* 100, 2) ;
    ELSE
        nCollectionRate := 0;
    END IF;
--DBMS_OUTPUT.PUT_LINE(' nCollectionRate --> ' ||to_char(nCollectionRate) );
    -- Set Output Arguments
    pPopulationNumber := nPopulation;
    pCollectedNumber := nCollected;
    PCollectionRate := nCollectionRate;

EXCEPTION
    WHEN OTHERS THEN
        pPopulationNumber := 0;
        pCollectedNumber := 0;
        PCollectionRate := 0;
        --error_code := SQLCODE;
        --error_msg := SQLERRM;

END;

-----
-- Create Collection rate list in temporary table
-----

PROCEDURE CreateResponseRate(
    pSeq          IN  SMALLINT, -- Seq
    pISIC         IN  VARCHAR2, -- ISIC
    pYear         IN  NUMBER,   -- Year
    pMonth        IN  NUMBER,   -- Month
    pScope        IN  VARCHAR2, -- Target Scope For Calculation

```

```

Only) pContinuousRespondent IN VARCHAR2, -- ContinuousRespondent(0 : All , 1 : Continuous
) pReturn OUT NUMBER -- 0: OK , 1:Error
IS
BEGIN
    delete from CollectionRate where Seq = pSeq;

    insert into CollectionRate
    select pSeq,          --Seq
           pISIC,         --ISIC
           E.RegistrationNo, --RegistrationNo
           E.EstablishmentName, --EstablishmentName
           E.EstablishmentTel, --Tel
           E.EstablishmentFax, --Fax
           NameOfRespondent, --Respondent
           Null,          --Year
           Null,          --Month
    from EstablishmentMaster E
    where E.ISIC = pISIC
          and E.SurveyScope <= pScope
          and E.ContinuousRespondent >= pContinuousRespondent;
    commit work;

    /* ContinuousRespondent
    || 0 -> 0 or 1 (All)
    || 1 -> 1 (Only Continuous Answering Establishment)
    */
    update CollectionRate
    set Year = pYear,
        Month = pMonth
    where Seq = pSeq
          and RegistrationNo IN
            (select E.RegistrationNo
             from SurveyHeader S, EstablishmentMaster E
             where S.ISIC = pISIC
                   and S.Year = pYear
                   and S.Month = pMonth
                   and S.ISIC = E.ISIC
                   and S.RegistrationNo = E.RegistrationNo
                   and S.EstimatedMark IN (0, 1)
                   and E.SurveyScope <= pScope
                   and E.ContinuousRespondent >= pContinuousRespondent
            );
    commit work;
    pReturn := 0;

EXCEPTION
    WHEN OTHERS THEN
        pReturn := 1;

END;

END;
/
show errors

```

```

-- =====
-- Package Name : Monthly Process
-- Package ID   : MonthProc
-- Create Date  : 1/Dec/1999
-- Replace Date : xx/xx/xxxx
-- Author      : Nakamura
--
-- test        : @c:¥jica¥MonthProc
-- test                :      begin MonthProc.p_PastRecMk('1', 1998, 5); e
nd;
-- test                :      begin MonthProc.p_LinkCopy(1999, 3); commit;
end;
-- test                :      begin MonthProc.p_BatchCtlUpd('2', 1998, 12);
commit; end;
-- =====
create or replace package MonthProc is
procedure p_PastRecMk (
    inPre_Rev_Mark in    Varchar2,
    inYear          in    Number,
    inMonth         in    Number);

procedure p_LinkCopy (
    inYear          in    Number,
    inMonth         in    Number);

procedure p_BatchCtlUpd (
    inPre_Rev_Mark in    Varchar2,
    inYear          in    Number,
    inMonth         in    Number);

procedure p_DeleteAllTemps;

end;
/
show errors
/

create or replace package body MonthProc is
-- =====
-- Past Record Data Making
--   inPre_Rev_Mark :
--       1 = Preliminary Report Process
--       2 = Revised Report Process
-- =====
procedure p_PastRecMk (
    inPre_Rev_Mark in    Varchar2,
    inYear          in    Number,
    inMonth         in    Number) is

-- Record Area Define
    recsd            SurveyData%rowtype;
    recbc            BatchControl%rowtype;
    recpr            PastRecord%rowtype;

Begin
-- DBMS_OUTPUT.PUT_LINE('Start PGM');
-- Pre_Rev_Mark Checking
    if    inPre_Rev_Mark = '1' or inPre_Rev_Mark = '2' then
        null;
    else
        return;
    end if;

-- Past Record Delete
    delete from PastRecord
    where   Year          = inYear
           and Month      = inMonth
           and Pre_Rev_Mark = inPre_Rev_Mark;

    commit;

-- Past Record Insert
    insert into PastRecord(
        ISIC,
        YEAR,
        MONTH,

```



```

REGISTRATIONNO,
ITEMTYPE,
COMMODITYCODE,
PRE_REV_MARK,
BM_INVENTORY,
ATRBT_BM_INVENTORY,
PRODUCTIONQTY,
ATRBT_PRODUCTIONQTY,
RECEIPTS,
ATRBT_RECEIPTS,
DOMESTICSALES,
ATRBT_DOMESTICSALES,
EXPORT,
ATRBT_EXPORT,
OTHERSALES,
ATRBT_OTHERSALES,
ME_INVENTORY,
ATRBT_ME_INVENTORY,
CAPACITY,
ATRBT_CAPACITY,
SHIPMENTVALUE,
ATRBT_SHIPMENTVALUE,
SALESPLAN,
ATRBT_SALESPLAN,
LABORTOTAL,
ATRBT_LABORTOTAL,
LABOR_SC,
ATRBT_LABOR_SC,
RWMT_MEINVENTORY,
ATRBT_RWMT_MEINVENTORY,
RWMT_MEINVENTORYValue,
ATRBT_RWMT_MEINVENTORYValue,
BIZCONDITION,
UNITPRICE,
REMARKS,
ESTIMATEDMARK,
USERID,
RECDATE)
select  ISIC,

```

```

YEAR,
MONTH,
REGISTRATIONNO,
ITEMTYPE,
COMMODITYCODE,
inPRE_REV_MARK,
BM_INVENTORY,
ATRBT_BM_INVENTORY,
PRODUCTIONQTY,
ATRBT_PRODUCTIONQTY,
RECEIPTS,
ATRBT_RECEIPTS,
DOMESTICSALES,
ATRBT_DOMESTICSALES,
EXPORT,
ATRBT_EXPORT,
OTHERSALES,
ATRBT_OTHERSALES,
ME_INVENTORY,
ATRBT_ME_INVENTORY,
CAPACITY,
ATRBT_CAPACITY,
SHIPMENTVALUE,
ATRBT_SHIPMENTVALUE,
SALESPLAN,
ATRBT_SALESPLAN,
LABORTOTAL,
ATRBT_LABORTOTAL,
LABOR_SC,
ATRBT_LABOR_SC,
RWMT_MEINVENTORY,
ATRBT_RWMT_MEINVENTORY,
RWMT_MEINVENTORYValue,
ATRBT_RWMT_MEINVENTORYValue,
BIZCONDITION,
UNITPRICE,
REMARKS,
'0',

```

```

                                USERID,
                                sysdate
                                from SurveyData
                                where Year = inYear
                                and Month = inMonth;

end;

-----
-- Link Master Copy To Next Month
-----

procedure p_LinkCopy (
    inYear          in      Number,
    inMonth         in      Number) is

    -- Work Area
    nNY             number;
    nNM             number;

Begin
    -- DBMS_OUTPUT.PUT_LINE('Start PGM');
    -- Get Pre Month
    if inMonth = 12 then
        nNY := inYear + 1;
        nNM := 1;
    else
        nNY := inYear;
        nNM := inMonth + 1;
    end if;

    -- Link Master Insert
    begin
        insert
            into LinkMaster(
                ISIC,
                ITEMTYPE,
                COMMODITYCODE,
                YEAR,
                MONTH,
                SURVEYSCOPE,
                Version,
                PRODUCTIONQTY,
                SHIPMENTQTY,
                ME_INVENTORY,
                CAPACITY,
                SHIPMENTVALUE,
                WORKER,
                WORKINGHOUR,
                WORKINGDAY,
                RWMT_MEINVENTORY)
            select ISIC,
                ITEMTYPE,
                COMMODITYCODE,
                nNY,
                nNM,
                SURVEYSCOPE,
                Version,
                PRODUCTIONQTY,
                SHIPMENTQTY,
                ME_INVENTORY,
                CAPACITY,
                SHIPMENTVALUE,
                WORKER,
                WORKINGHOUR,
                WORKINGDAY,
                RWMT_MEINVENTORY
            from LinkMaster
            where Year = inYear
            and Month = inMonth;

        exception
            when dup_val_on_index then
                null;
    end;

    -- Deflator Master Insert
    begin
        insert

```

```

        into DeflatorMaster(
            ISIC,
            ITEMTYPE,
            COMMODITYCODE,
            YEAR,
            MONTH,
            SURVEYSCOPE,
            Version,
            PRODUCTIONQTY,
            SHIPMENTQTY,
            ME_INVENTORY,
            CAPACITY,
            RWMT_MEINVENTORY)

select ISIC,

            ITEMTYPE,
            COMMODITYCODE,
            nNY,
            nNM,
            SURVEYSCOPE,
            Version,
            PRODUCTIONQTY,
            SHIPMENTQTY,
            ME_INVENTORY,
            CAPACITY,
            RWMT_MEINVENTORY

        from DeflatorMaster
        where Year = inYear
        and      Month = inMonth;
exception
    when dup_val_on_index then
        null;
end;

-- Seasonal Adjustment Master Insert
begin
    insert
        into SeasonalAdjustmentMaster(
            AGGREGATIONRANGE,
            ISIC,
            ITEMTYPE,
            INDEXCOMMODITYCODE,
            YEAR,
            MONTH,
            SURVEYSCOPE,
            VERSION,
            INDEXPR1,
            INDEXSP2,
            INDEXIV3,
            INDEXIR4,
            INDEXCU5,
            INDEXLP6,
            INDEXL17,
            INDEXR18)

select AGGREGATIONRANGE,

            ISIC,
            ITEMTYPE,
            INDEXCOMMODITYCODE,
            nNY,
            nNM,
            SURVEYSCOPE,
            VERSION,
            INDEXPR1,
            INDEXSP2,
            INDEXIV3,
            INDEXIR4,
            INDEXCU5,
            INDEXLP6,
            INDEXL17,
            INDEXR18

        from SeasonalAdjustmentMaster
        where Year = inYear
        and      Month = inMonth;
exception
    when dup_val_on_index then
        null;
end;

```

```

end;

-----
-- Batch Control File Update
-----

procedure p_BatchCtlUpd (
    inPre_Rev_Mark in      Varchar2,
    inYear         in      Number,
    inMonth        in      Number) is

Begin
    if      inPre_Rev_Mark = '1' then
        update BatchControl
        set      PreliminaryStatus = '0',
                  PreliminaryDate   = sysdate
        where    Year      = inYear
        and      Month     = inMonth;
    elsif    inPre_Rev_Mark = '2' then
        update BatchControl
        set      RevisedStatus = '0',
                  RevisedDate   = sysdate
        where    Year      = inYear
        and      Month     = inMonth;
    end if;

end;

/* =====
Delete All temporary tables
===== */
PROCEDURE p_DeleteAllTemps

IS
BEGIN
    delete from ContributionForAll1;
    delete from ContributionForAll2;
    delete from ContributionForIndustry;
    delete from ContributionForCommodity;
    delete from IndexList;
    delete from TimeFigures;
    delete from CollectionRate;
    delete from AnnualcollectionStatus;
    delete from CPMYRawEst;
    delete from CPMYRawISIC;
END;

end;
/
show errors
/

```

```

-----
-- Package Name : Survey Data Control
-- Package ID   : sdctl
-- Create Date  : 17/Sep/1999
-- Replace Date  : xx/xx/xxxx
-- Author       : Nakamura
--
-- File        : @c:\jica\sdctl
-- Test        : select * from surveyheader
-- Test        : select * from batchcontrol
-----

create or replace package sdctl is
procedure   p_EntryCk (
            inYear                in      Number,
            inMonth               in      Number,
            inISIC                in      Number,
            inRegistrationNo       in      Varchar2,
            outUserInputed        out     Varchar2);

procedure   p_HeaderMk (
            inYear                in      Number,
            inMonth               in      Number,
            inISIC                in      Number,
            inRegistrationNo       in      Varchar2);

procedure   p_SurveyHead (
            inYear                in      Number,
            inMonth               in      Number,
            inISIC                in      Number,
            inRegistrationNo       in      Varchar2,
            outUserInputed        out     Varchar2);

end         sdctl;
/
show errors
/

create or replace package body sdctl is
-----
-- None Input Checking
-- outUserInputed:
-- User Data Inputed   = 1
-- User Data Not Input = 0
-----

procedure p_EntryCk (
            inYear                in      Number,
            inMonth               in      Number,
            inISIC                in      Number,
            inRegistrationNo       in      Varchar2,
            outUserInputed        out     Varchar2) is

-- Record Area Define
recsd      SurveyData%rowtype;

-- Work Area Define
nRecordCount      number := 0;
nNoneInputed      number := 0;

-- Survey Data Cursor
Cursor csrSurveyData is
select *
from   SurveyData
where  ISIC      = inISIC
and    RegistrationNo = inRegistrationNo
and    Year       = inYear
and    Month      = inMonth;

Begin
-- DBMS_OUTPUT.PUT_LINE('Start PGM');
-- Get Record Count
open csrSurveyData;

fetch csrSurveyData into recsd;

while csrSurveyData%found loop
-- Record Counter Up
nRecordCount := nRecordCount + 1;

```

```

-- Data Input Checking
    if recsd.PRODUCTIONQTY is null
    and recsd.RECEIPTS is null
    and recsd.DOMESTICSALLES is null
    and recsd.EXPORT is null
    and recsd.OTHERSALES is null
    and recsd.ME_INVENTORY is null
    and recsd.CAPACITY is null
    and recsd.SHIPMENTVALUE is null
    and recsd.SALESPLAN is null
    and recsd.LABORTOTAL is null
    and recsd.LABOR_SC is null
    and recsd.RWMT_MEINVENTORY is null
    and recsd.RWMT_MEINVENTORYValue is null then
        nNoneInputed := nNoneInputed + 1;
    end if;

    fetch csrSurveyData into recsd;

end loop;

close csrSurveyData;

-- Data input checking
if nRecordCount = nNoneInputed then
    outUserInputed := '0';
else
    outUserInputed := '1';
end if;

end;

-----
-- Survey Header Data Maintenance
-----

procedure p_HeaderMk (
    inYear          In Number,
    inMonth         In Number,
    inISIC          In Varchar2,
    inRegistrationNo In Varchar2) is

-- Record Area Define
    recsd SurveyData%rowtype;
    recsh SurveyHeader%rowtype;
    recbc BatchControl%rowtype;

-- Work Area Define
    nRecordCount      number := 0;
    nAllEstimated     number := 0;
    nIncludeEstimated number := 0;
    sRevisedStatus    Varchar2(1) := '0';
    sYearlyStatus     Varchar2(1) := '0';

-- Survey Data Cursor
    Cursor csrSurveyData is
    select *
    from SurveyData
    where ISIC = inISIC
    and RegistrationNo = inRegistrationNo
    and Year = inYear
    and Month = inMonth;

Begin
-- DBMS_OUTPUT.PUT_LINE('Start PGM');
-- Batch Control Table Selecting
    begin
    Select *
    into recbc
    from BatchControl
    where Year = inYear
    and Month = inMonth;
    exception
    when no_data_found then
        recbc.RevisedDate := null;
        recbc.RevisedStatus := '0';
        recbc.YearlyDate := null;

```

```

        recbc. YearlyStatus := '0';
    end;

-- Survey Data Open -> Fetch
    open csrSurveyData;
    fetch csrSurveyData into recsd;
    while csrSurveyData%found loop

-- Record Counter Up
    nRecordCount := nRecordCount + 1;

-- Data All Estimated Checking
    if recsd.ItemType = '1' then
        if (recsd.Atrbt_BM_INVENTORY = 'X' or recsd.Atrbt_BM_I
NVENTORY = 'Y')
        and (recsd.Atrbt_PRODUCTIONQTY = 'X' or recsd.Atrbt_PRODUCTIONQTY = '
Y')
        and (recsd.Atrbt_RECEIPTS = 'X' or recsd.Atrbt_RECEI
PTS = 'Y')
        and (recsd.Atrbt_DOMESTICSALES = 'X' or recsd.Atrbt_DOMESTICSALES = 'Y')
        and (recsd.Atrbt_EXPORT = 'X' or recsd.Atrb
t_EXPORT = 'Y')
        and (recsd.Atrbt_OTHERSALES = 'X' or recsd.Atrbt_EXPORT
= 'Y')
        and (recsd.Atrbt_ME_INVENTORY = 'X' or recsd.Atrbt_ME_INVENTORY = '
Y') then
            nAllEstimated := nAllEstimated + 1;
        end if;
    elsif recsd.ItemType = '6' then
        if (recsd.Atrbt_CAPACITY = 'X' or recsd.Atrbt_CAPACITY = 'Y')
then
            nAllEstimated := nAllEstimated + 1;
        end if;
    elsif recsd.ItemType = '2' then
        if (recsd.Atrbt_SHIPMENTVALUE = 'X' or recsd.Atrbt_SHIPMENTVALUE
= 'Y')
        and (recsd.Atrbt_SALESPLAN = 'X' or recsd.Atrbt_SALES
PLAN = 'Y') then
            nAllEstimated := nAllEstimated + 1;
        end if;
    elsif recsd.ItemType = '3' then
        if (recsd.Atrbt_LABORTOTAL = 'X' or recsd.Atrbt_LABORTO
TAL = 'Y')
        and (recsd.Atrbt_LABOR_SC = 'X' or recsd.Atrbt_LABOR_SC
= 'Y') then
            nAllEstimated := nAllEstimated + 1;
        end if;
    elsif recsd.ItemType = '4' then
        if (recsd.Atrbt_RWMT_MEINVENTORY = 'X' or rec
sd.Atrbt_RWMT_MEINVENTORY = 'Y')
        and (recsd.Atrbt_RWMT_MEINVENTORYValue = 'X' or recsd.Atrbt_RWMT_ME
INVENTORYValue = 'Y') then
            nAllEstimated := nAllEstimated + 1;
        end if;
    end if;

-- Data Include Estimated Checking
    if recsd.ItemType = '1' then
        if (recsd.Atrbt_BM_INVENTORY = 'X' or recsd.Atrbt_BM_INVE
NTORY = 'Y')
        or (recsd.Atrbt_PRODUCTIONQTY = 'X' or recsd.Atrbt_PRODUCT
IONQTY = 'Y')
        or (recsd.Atrbt_RECEIPTS = 'X' or recsd.Atrbt
_RECEIPTS = 'Y')
        or (recsd.Atrbt_DOMESTICSALES = 'X' or recsd.Atrbt_DOMESTICSALES =
'Y')
        or (recsd.Atrbt_EXPORT = 'X' or recsd.Atrb
t_EXPORT = 'Y')
        or (recsd.Atrbt_OTHERSALES = 'X' or recsd.Atrbt_EXPORT
= 'Y')
        or (recsd.Atrbt_ME_INVENTORY = 'X' or recsd.Atrbt_ME_INVENTORY
= 'Y') then
            nIncludeEstimated := nIncludeEstimated + 1;
        end if;
    elsif recsd.ItemType = '6' then
        if (recsd.Atrbt_CAPACITY = 'X' or recsd.Atrbt_CAPACITY = 'Y') then
            nIncludeEstimated := nIncludeEstimated + 1;
        end if;
    end if;
end while;

```

```

        end if;
    elsif recsd.ItemType = '2' then
        if (recsd.Atrbt_SHIPMENTVALUE = 'X' or recsd.Atrbt_SHIPMENTVALUE = '
Y')
            or (recsd.Atrbt_SALESPLAN = 'X' or recsd.Atrbt_SALESPLAN = 'Y') then
                nIncludeEstimated := nIncludeEstimated + 1;
            end if;
        elsif recsd.ItemType = '3' then
            if (recsd.Atrbt_LABORTOTAL = 'X' or recsd.Atrbt_LABORTOTAL = 'Y')
                or (recsd.Atrbt_LABOR_SC = 'X' or recsd.Atrbt_LABOR
_SC = 'Y') then
                    nIncludeEstimated := nIncludeEstimated + 1;
                end if;
            elsif recsd.ItemType = '4' then
                if (recsd.Atrbt_RWMT_MEINVENTORY = 'X' or recsd.Atrbt_RWMT_MEINVENTORY
= 'Y')
                    or (recsd.Atrbt_RWMT_MEINVENTORYValue = 'X' or recsd.Atrbt_RWMT_MEINV
ENTORYValue = 'Y') then
                        nIncludeEstimated := nIncludeEstimated + 1;
                    end if;
                end if;
            end if;

            fetch csrSurveyData into recsd;
            end loop;

            close csrSurveyData;

-- Header Data Insert or Update
    if nRecordCount = nAllEstimated then
        recsh.EstimatedMark := '2';
    else
        if nIncludeEstimated > 0 then
            recsh.EstimatedMark := '1';
        else
            recsh.EstimatedMark := '0';
        end if;
    end if;

    if recbc.RevisedDate is null then
        recsh.RevisedStatus := '0';
    else
        recsh.RevisedStatus := '1';
    end if;

    if recbc.YearlyDate is null then
        recsh.YearlyStatus := '0';
    else
        recsh.YearlyStatus := '1';
    end if;

    begin
        Insert
            into SurveyHeader(
                ISIC,
                RegistrationNo,
                Year,
                Month,
                EstimatedMark,
                RevisedStatus,
                YearlyStatus)
            Values (inISIC,
                inRegistrationNo,
                inYear,
                inMonth,
                recsh.EstimatedMark,
                recsh.RevisedStatus,
                recsh.YearlyStatus);

    exception
    when dup_val_on_index then
        update SurveyHeader
        set EstimatedMark = recsh.EstimatedMark,
            RevisedStatus = recsh.RevisedStatus,
            YearlyStatus = recsh.YearlyStatus
        where ISIC = inISIC
            and RegistrationNo = inRegistrationNo
            and Year = inYear

```



```

        and      Month = inMonth;
    end;

-- Batch Control Update
    if recbc.RevisedDate is null then
        null;
    else
        if recbc.RevisedStatus = '1' then
            null;
        else
            sRevisedStatus := '1';
        end if;
    end if;

    if recbc.YearlyDate is null then
        null;
    else
        if recbc.YearlyStatus = '1' then
            null;
        else
            sYearlyStatus := '1';
        end if;
    end if;

    if sRevisedStatus = '1'
    or sYearlyStatus = '1' then
        update BatchControl
            set      RevisedStatus = sRevisedStatus,
                   YearlyStatus  = sYearlyStatus
            where Year  = inYear
               and     Month = inMonth;
    end if;
end;

-----
-- Main Survey Data Entry Check And Survey Header Making
-----
procedure p_SurveyHead (
    inYear          in      Number,
    inMonth         in      Number,
    inISIC          in      Varchar2,
    inRegistrationNo in      Varchar2,
    outUserInputed  out Varchar2) is
    sUserInputed    Varchar2(1) := '0';

Begin
-- Entry Check
    p_entryck (inYear, inMonth, inISIC, inRegistrationNo, sUserInputed);

    outUserInputed := sUserInputed;

    if outUserInputed = '0' then
        return;
    end if;

-- Header Data Making
    p_HeaderMk(inYear, inMonth, inISIC, inRegistrationNo);

end;

end;
/
show errors
/

```

```

-- =====
-- Package Name : Time Series List of Figures by Commodity Data Making
-- Package ID   : temprep
-- Create Date  : 20/Oct/1999
-- Replace Date : xx/xxx/xxxx
-- Author       : Nakamura
--
-- File        : @c:%jica%timeseriesmk;
-- Test        : BEGIN TimeSeriesMk. p_FigCommMk(1, 2000, '4', '15121
0', '2', '2'); END;
-- Test        : Delete from TimeFigures;
-- =====
create or replace package TimeSeriesMk is
procedure p_FigCommMk (
    inSeq          in number,
    inYear         in number,
    inAggregationRange in varchar2,
    inISIC         in varchar2,
    inSurveyScope  in varchar2,
    inPre_Rev_Mark in varchar2);
end TimeSeriesMk;
/
show errors
/

create or replace package body TimeSeriesMk is
-- =====
-- Insert Temporary Figures Commodity Table
-- =====
procedure p_InsFigComm (
    n inSeq          in number,
    n inFigureType   in VARCHAR2,
    n inReportType   in VARCHAR2,
    n inYear         in number,
    n inISIC         in VARCHAR2,
    n inCommodityCode in VARCHAR2,
    n inIndustryTypeShortName in VARCHAR2,
    n inCommodityShortName in VARCHAR2,
    n inUnitName      in VARCHAR2,
    n inPYA          in number,
    n inPYT          in number,
    n inCYT          in number,
    n inCYM01        in number,
    n inCYM02        in number,
    n inCYM03        in number,
    n inCYM04        in number,
    n inCYM05        in number,
    n inCYM06        in number,
    n inCYM07        in number,
    n inCYM08        in number,
    n inCYM09        in number,
    n inCYM10        in number,
    n inCYM11        in number,
    n inCYM12        in number,
    n inPY2T         in number,
    n inPYM01        in number,
    n inPYM02        in number);
end p_InsFigComm;

```

BER,	inPYM03	in	NUM
BER,	inPYM04	in	NUM
BER,	inPYM05	in	NUM
BER,	inPYM06	in	NUM
BER,	inPYM07	in	NUM
BER,	inPYM08	in	NUM
BER,	inPYM09	in	NUM
BER,	inPYM10	in	NUM
BER,	inPYM11	in	NUM
BER,	inPYM12	in	NUM

BER) is
begin

Insert
into TimeFigures (Seq,
FigureType,

ReportType,
Year,
ISIC,
CommodityCode,
IndustryTypeShortName,
CommodityShortName,
UnitName,
PYA,
PYT,
CYT,
CYM01,
CYM02,
CYM03,
CYM04,
CYM05,
CYM06,
CYM07,
CYM08,
CYM09,
CYM10,
CYM11,
CYM12,

PY2T,

PYM01,
PYM02,
PYM03,
PYM04,
PYM05,
PYM06,
PYM07,
PYM08,
PYM09,
PYM10,
PYM11,
PYM12)

Values (inSeq, inFigureType,

inReportType,
inYear,
inISIC,
inCommodityCode,
inIndustryTypeShortName,
inCommodityShortName,
inUnitName,
inPYA,
inPYT,
inCYT,
inCYM01,
inCYM02,
inCYM03,
inCYM04,
inCYM05,

```

        inCYM06,
        inCYM07,
        inCYM08,
        inCYM09,
        inCYM10,
        inCYM11,
        inCYM12,
                                inPY2T,
        inPYM01,
        inPYM02,
        inPYM03,
        inPYM04,
        inPYM05,
        inPYM06,
        inPYM07,
        inPYM08,
        inPYM09,
        inPYM10,
        inPYM11,
        inPYM12);
end;

-----
-- Growth Rate Against Caluculation
-----
function f_CalGRA(
    inCurFigure    in number,
    inPreFigure in number) return number is
    nGRA              number;
begin
    if    (inCurFigure is null)
    or    (inPreFigure is null) then
        nGRA := null;
        return nGRA;
    end if;

    if    inPreFigure = 0 then
        nGRA := 100;
        return nGRA;
    end if;

    nGRA := ((inCurFigure - inPreFigure) / inPreFigure) * 100;

    return nGRA;
end;

-----
-- Actual Value Caluculation.
-----
procedure p_ActualValue (
    inSeq              in number,
    inYear             in number,
    inAggregationRange in varchar2,
    inISIC             in varchar2,
    inSurveyScope      in varchar2,
    inPre_Rev_Mark     in varchar2) is
    -- Record Area Define
    reccm              CommodityMaster%row
type;
    recum              UnitMaster%rowtype;
    reccl              ClassMaster%rowtype;
    recbc              BatchControl%rowtyp
e;

    ProductionQty      TimeFigures%rowtype;
    Shipment           TimeFigures%rowtype;
    Me_Inventory        TimeFigures%rowtype;
    ShipmentValue       TimeFigures%rowtype;
    Capacity            TimeFigures%rowtype;
    RwmMt_MEInventory   TimeFigures%rowtype;

    -- Work Area Define
    ProductionQtyCYM    TimeFigures.CYM01%type;
    ShipmentCYM         TimeFigures.CYM01%type;

```

```

Me_InventoryCYM          TimeFigures. CYM01%type;
ShipmentValueCYM        TimeFigures. CYM01%type;
CapacityCYM              TimeFigures. CYM01%type;
RwMt_MEInventoryCYM      TimeFigures. CYM01%type;

ProductionQtyPYM         TimeFigures. PYM01%type;
ShipmentPYM              TimeFigures. PYM01%type;
Me_InventoryPYM          TimeFigures. PYM01%type;
ShipmentValuePYM         TimeFigures. PYM01%type;
CapacityPYM              TimeFigures. PYM01%type;
RwMt_MEInventoryPYM      TimeFigures. PYM01%type;

i                          number;
nPY                        number;
nPY2                      number;

sISIC2d                   Varchar2(2);
sISIC4d                   Varchar2(4);

nCurMonth                number;

-- Commodity Master Cursor
Cursor csrccm is
    select CommodityMaster. ISIC,
           CommodityMaster. ItemType,
           CommodityMaster. CommodityCode,
           CommodityMaster. CommodityShortName,
           ClassMaster. IndustryTypeShortName,
           UnitMaster. UnitName
    from   CommodityMaster, ClassMaster, UnitMaster
   where  CommodityMaster. ISIC = ClassMaster. ISIC
          and CommodityMaster. UnitCode = UnitMaster. UnitCode
   order by CommodityMaster. ISIC, CommodityMaster. ItemType,
           CommodityMaster. CommodityCode;

Begin
    DBMS_OUTPUT.PUT_LINE(' Start p_ActualValue ' || to_char(sysdate, 'HH24:MI:SS'));
-- Initial Process
    sISIC2d := substr(inISIC, 1, 2);
    sISIC4d := substr(inISIC, 1, 4);
    nPY     := inYear - 1;
    nPY2    := inYear - 2;

-- Current Month Get
    select max(Month)
       into recbc.Month
       from BatchControl
      where Year = inYear
            and RevisedDate is not null;

    if recbc.Month is null then
        nCurMonth := 1;
    elsif recbc.Month >= 12 then
        nCurMonth := 12;
    else
        nCurMonth := recbc.Month + 1;
    end if;

-- Commodity Master Open Fetch
    open csrccm;
    fetch csrccm into      reccm. ISIC, reccm. ItemType, reccm. CommodityCode,
                           reccm. CommodityShortName, reccl. IndustryTypeShortName, recu
m. UnitName;

-- Commodity Master Fetch Looping
    while csrccm%found loop
        if (inAggregationRange = '1')
        or  (inAggregationRange = '2' and substr(reccm. ISIC, 1, 2) = sISIC2d)
        or  (inAggregationRange = '3' and substr(reccm. ISIC, 1, 4) = sISIC4d)
        or  (inAggregationRange = '4' and substr(reccm. ISIC, 1, 6) = inISIC) then

--          DBMS_OUTPUT.PUT_LINE(to_char(sysdate, 'HH24:MI:SS') || ' ' || reccm. ISIC || ' ' ||
reccm. ItemType ||
--
--          ' ' || reccm. CommodityCode);

-- Item Type 1

```

```

if reccm.ItemType = '1' then
-- Current Year Total Data Select
select sum(ProductionQty),
sum(DomesticSales) + sum(E
xport),
sum(Me_Inventory)
into ProductionQty. CYT,
Shipment. CYT,
Me_Inventory. CYT
from VW_PastRecordScope
where ISIC = reccm. ISIC
and Year = inYear
and CommodityCode = reccm. CommodityCode
and ItemType = reccm. ItemType
and SurveyScope <= inSurveyScope
and ((Month = nCurMonth and Pre_Rev_Mark
= inPre_Rev_Mark)
or (Month < nCurMonth and Pre
_Rev_Mark = '2'));
-- Previous Year Total Data Select
select sum(ProductionQty),
sum(DomesticSales) + sum(E
xport),
sum(Me_Inventory)
into ProductionQty. PYT,
Shipment. PYT,
Me_Inventory. PYT
from VW_PastRecordScope
where ISIC = reccm. ISIC
and Year = nPY
and CommodityCode = reccm. CommodityCode
and ItemType = reccm. ItemType
and Pre_Rev_Mark = '2'
and SurveyScope <= inSurveyScope;
-- Check Output Data
if ProductionQty. CYT is null
and Shipment. CYT is null
and Me_Inventory. CYT is null
and ProductionQty. PYT is null
and Shipment. PYT is null
and Me_Inventory. PYT is null then
null;
else
-- Month Data Select
ProductionQty. CYM01 := null;
Shipment. CYM01 := null;
Me_Inventory. CYM01 := null;
ProductionQty. PYM01 := null;
Shipment. PYM01 := null;
Me_Inventory. PYM01 := null;
ProductionQty. CYM02 := null;
Shipment. CYM02 := null;
Me_Inventory. CYM02 := null;
ProductionQty. PYM02 := null;
Shipment. PYM02 := null;
Me_Inventory. PYM02 := null;
ProductionQty. CYM03 := null;
Shipment. CYM03 := null;
Me_Inventory. CYM03 := null;
ProductionQty. PYM03 := null;
Shipment. PYM03 := null;
Me_Inventory. PYM03 := null;
ProductionQty. CYM04 := null;
Shipment. CYM04 := null;
Me_Inventory. CYM04 := null;
ProductionQty. PYM04 := null;
Shipment. PYM04 := null;
Me_Inventory. PYM04 := null;
ProductionQty. CYM05 := null;
Shipment. CYM05 := null;
Me_Inventory. CYM05 := null;
ProductionQty. PYM05 := null;
Shipment. PYM05 := null;
Me_Inventory. PYM05 := null;

```

```

ProductionQty. CYM06 := null;
Shipment. CYM06      := null;
Me_Inventory. CYM06  := null;
ProductionQty. PYM06 := null;
Shipment. PYM06      := null;
Me_Inventory. PYM06  := null;
ProductionQty. CYM07 := null;
Shipment. CYM07      := null;
Me_Inventory. CYM07  := null;
ProductionQty. PYM07 := null;
Shipment. PYM07      := null;
Me_Inventory. PYM07  := null;
ProductionQty. CYM08 := null;
Shipment. CYM08      := null;
Me_Inventory. CYM08  := null;
ProductionQty. PYM08 := null;
Shipment. PYM08      := null;
Me_Inventory. PYM08  := null;
ProductionQty. CYM09 := null;
Shipment. CYM09      := null;
Me_Inventory. CYM09  := null;
ProductionQty. PYM09 := null;
Shipment. PYM09      := null;
Me_Inventory. PYM09  := null;
ProductionQty. CYM10 := null;
Shipment. CYM10      := null;
Me_Inventory. CYM10  := null;
ProductionQty. PYM10 := null;
Shipment. PYM10      := null;
Me_Inventory. PYM10  := null;
ProductionQty. CYM11 := null;
Shipment. CYM11      := null;
Me_Inventory. CYM11  := null;
ProductionQty. PYM11 := null;
Shipment. PYM11      := null;
Me_Inventory. PYM11  := null;
ProductionQty. CYM12 := null;
Shipment. CYM12      := null;
Me_Inventory. CYM12  := null;
ProductionQty. PYM12 := null;
Shipment. PYM12      := null;
Me_Inventory. PYM12  := null;

for i in 1..nCurMonth loop
    if i = nCurMonth then
        select sum(ProductionQty),
            sum
            sum
            (DomesticSales) + sum(Export),
            (Me_Inventory)
            into ProductionQtyCYM,
            Shi
            pmentCYM,
            Me_
            InventoryCYM
            from VW_PastRecordScope
            where ISIC = reccm. ISIC
            and Year = inYear
            and Month = i
            and CommodityCode = reccm. Comm
            and ItemType = reccm. It
            and Pre_Rev_Mark = inPr
            and SurveyScope <= inSu
        else
            select sum(ProductionQty),
                sum
                sum
                (DomesticSales) + sum(Export),
                (Me_Inventory)
                into ProductionQtyCYM,
                Shi
                pmentCYM,

```

```

InventoryCYM
                                Me_
                                from VW_PastRecordScope
                                where ISIC = reccm. ISIC
                                and Year = inYear
                                and Month = i
                                and CommodityCode = reccm. Comm
                                and ItemType = reccm. It
                                and Pre_Rev_Mark = '2'
                                and SurveyScope <= inSu
                                end if;
                                select sum(ProductionQty),
                                sum(Domesti
                                sum(Me_Inve
                                into ProductionQtyPYM,
                                ShipmentPYM,
                                Me_Inventor
                                from VW_PastRecordScope
                                where ISIC = reccm. ISIC
                                and Year = nPY
                                and Month = i
                                and CommodityCode = reccm. CommodityCode
                                and ItemType = reccm. ItemType
                                and Pre_Rev_Mark = '2'
                                and SurveyScope <= inSurveySco
                                and
                                if i = 1 then
                                    ProductionQty. CYM01 := Pro
                                    Shipment. CYM01
                                    Me_Inventory. CYM01 :=
                                    ProductionQty. PYM01 := Pro
                                    Shipment. PYM01
                                    Me_Inventory. PYM01 :=
                                elsif i = 2 then
                                    ProductionQty. CYM02 := Pro
                                    Shipment. CYM02
                                    Me_Inventory. CYM02 :=
                                    ProductionQty. PYM02 := Pro
                                    Shipment. PYM02
                                    Me_Inventory. PYM02 :=
                                elsif i = 3 then
                                    ProductionQty. CYM03 := Pro
                                    Shipment. CYM03
                                    Me_Inventory. CYM03 :=
                                    ProductionQty. PYM03 := Pro
                                    Shipment. PYM03
                                    Me_Inventory. PYM03 :=
                                elsif i = 4 then
                                    ProductionQty. CYM04 := Pro
                                    Shipment. CYM04

odityCode
emType
rveyScope;

cSales) + sum(Export),
ntory)

yPYM

pe;

ductionQtyCYM;
:= ShipmentCYM;
Me_InventoryCYM;
ductionQtyPYM;
:= ShipmentPYM;
Me_InventoryPYM;
ductionQtyCYM;
:= ShipmentCYM;
Me_InventoryCYM;
ductionQtyPYM;
:= ShipmentPYM;
Me_InventoryPYM;
ductionQtyCYM;
:= ShipmentCYM;
Me_InventoryCYM;
ductionQtyPYM;
:= ShipmentPYM;
Me_InventoryPYM;
ductionQtyCYM;

```



```

:= ShipmentCYM;
Me_InventoryCYM;
ductionQtyPYM;
:= ShipmentPYM;
Me_InventoryPYM;
ductionQtyCYM;
:= ShipmentCYM;
Me_InventoryCYM;
ductionQtyPYM;
:= ShipmentPYM;
Me_InventoryPYM;
ductionQtyCYM;
:= ShipmentCYM;
Me_InventoryCYM;
ductionQtyPYM;
:= ShipmentPYM;
Me_InventoryPYM;

Shipment.CYM10
Me_Inventory.CYM10 :=
ProductionQty.PYM10 := Pro
Shipment.PYM10
Me_Inventory.PYM10 :=

elsif i = 11 then
ProductionQty.CYM11 := Pro
Shipment.CYM11
Me_Inventory.CYM11 :=
ProductionQty.PYM11 := Pro
Shipment.PYM11
Me_Inventory.PYM11 :=

elsif i = 12 then
ProductionQty.CYM12 := Pro
Shipment.CYM12
Me_Inventory.CYM12 :=
ProductionQty.PYM12 := Pro
Shipment.PYM12
Me_Inventory.PYM12 :=

end if;
end loop;

-- Previous Year Average Data Select
avg(Export),
select avg(ProductionQty),
avg(DomesticSales) +
avg(Me_Inventory)
into ProductionQty.PYA,
Shipment.PYA,
Me_Inventory.PYA
from VW_PastRecordScope
where ISIC = reccm.ISIC
and Year = nPY
and CommodityCode = reccm.CommodityCode
and ItemType = reccm.ItemType
and Pre_Rev_Mark = '2'
and SurveyScope <= inSurveyScope;

-- Previous 2 Year Total Data Select
sum(Export),
select sum(ProductionQty),
sum(DomesticSales) +
sum(Me_Inventory)
into ProductionQty.PY2T,
Shipment.PY2T,
Me_Inventory.PY2T
from VW_PastRecordScope
where ISIC = reccm.ISIC
and Year = nPY2
and CommodityCode = reccm.CommodityCode
and ItemType = reccm.ItemType
and Pre_Rev_Mark = '2'
and SurveyScope <= inSurveyScope;

-- Insert Actual Value Report(Production)
p_InsFigComm(inSeq, '1', '1', inYear, reccm.ISIC, recc
m.CommodityCode,
recc1.IndustryTypeShortName, reccm.CommodityShortName, recum.UnitNam
e,
ProductionQty.PYA, ProductionQty.PYT, ProductionQty.CYT,

```

```

ProductionQty. CYM01, ProductionQty. CYM02, ProductionQty. CYM03,
ProductionQty. CYM04, ProductionQty. CYM05, ProductionQty. CYM06,
ProductionQty. CYM07, ProductionQty. CYM08, ProductionQty. CYM09,
ProductionQty. CYM10, ProductionQty. CYM11, ProductionQty. CYM12,
ProductionQty. PY2T,
ProductionQty. PYM01, ProductionQty. PYM02, ProductionQty. PYM03,
ProductionQty. PYM04, ProductionQty. PYM05, ProductionQty. PYM06,
ProductionQty. PYM07, ProductionQty. PYM08, ProductionQty. PYM09,
ProductionQty. PYM10, ProductionQty. PYM11, ProductionQty. PYM12);

-- Insert Actual Value Report(Shipment)
p_InsFigComm(inSeq, '2', '1', inYear, reccm. ISIC, recc
m. CommodityCode,
reccl. IndustryTypeShortName, reccm. CommodityShortName, recum. UnitNam
e,
Shipment. PYA, Shipment. PYT, Shipment. CYT,
Shipment. CYM01, Shipment. CYM02, Shipment. CYM03,
Shipment. CYM04, Shipment. CYM05, Shipment. CYM06,
Shipment. CYM07, Shipment. CYM08, Shipment. CYM09,
Shipment. CYM10, Shipment. CYM11, Shipment. CYM12,
Shipment. PY2T,
Shipment. PYM01, Shipment. PYM02, Shipment. PYM03,
Shipment. PYM04, Shipment. PYM05, Shipment. PYM06,
Shipment. PYM07, Shipment. PYM08, Shipment. PYM09,
Shipment. PYM10, Shipment. PYM11, Shipment. PYM12);

-- Insert Actual Value Report(Inventory)
p_InsFigComm(inSeq, '3', '1', inYear, reccm. ISIC, recc
m. CommodityCode,
reccl. IndustryTypeShortName, reccm. CommodityShortName, recum. UnitNam
e,
Me_Inventory. PYA, Me_Inventory. PYT, Me_Inventory. CYT,
Me_Inventory. CYM01, Me_Inventory. CYM02, Me_Inventory. CYM03,
Me_Inventory. CYM04, Me_Inventory. CYM05, Me_Inventory. CYM06,
Me_Inventory. CYM07, Me_Inventory. CYM08, Me_Inventory. CYM09,
Me_Inventory. CYM10, Me_Inventory. CYM11, Me_Inventory. CYM12,
Me_Inventory. PY2T,
Me_Inventory. PYM01, Me_Inventory. PYM02, Me_Inventory. PYM03,
Me_Inventory. PYM04, Me_Inventory. PYM05, Me_Inventory. PYM06,
Me_Inventory. PYM07, Me_Inventory. PYM08, Me_Inventory. PYM09,
Me_Inventory. PYM10, Me_Inventory. PYM11, Me_Inventory. PYM12);

end if;

-- Item Type 2
elseif reccm. ItemType = '2' then
-- Current Year Total Data Select
select sum(ShipmentValue)
into ShipmentValue. CYT
from VW_PastRecordScope
where ISIC = reccm. ISIC
and Year = inYear
and CommodityCode = reccm. CommodityCode
and ItemType = reccm. ItemType
and SurveyScope <= inSurveyScope
and ((Month = nCurMonth and Pre_Rev_Mark
= inPre_Rev_Mark)
or (Month < nCurMonth and Pre
_Rev_Mark = '2'));
-- Previous Year Total Data Select
select sum(ShipmentValue)
into ShipmentValue. PYT
from VW_PastRecordScope
where ISIC = reccm. ISIC
and Year = nPY
and CommodityCode = reccm. CommodityCode
and ItemType = reccm. ItemType
and Pre_Rev_Mark = '2'
and SurveyScope <= inSurveyScope;

-- Input Check
if ShipmentValue. CYT is null
and ShipmentValue. PYT is null then
null;
else

```

-- Month Data Select

```

ShipmentValue.CYM01      := null;
ShipmentValue.PYM01      := null;
ShipmentValue.CYM02      := null;
ShipmentValue.PYM02      := null;
ShipmentValue.CYM03      := null;
ShipmentValue.PYM03      := null;
ShipmentValue.CYM04      := null;
ShipmentValue.PYM04      := null;
ShipmentValue.CYM05      := null;
ShipmentValue.PYM05      := null;
ShipmentValue.CYM06      := null;
ShipmentValue.PYM06      := null;
ShipmentValue.CYM07      := null;
ShipmentValue.PYM07      := null;
ShipmentValue.CYM08      := null;
ShipmentValue.PYM08      := null;
ShipmentValue.CYM09      := null;
ShipmentValue.PYM09      := null;
ShipmentValue.CYM10      := null;
ShipmentValue.PYM10      := null;
ShipmentValue.CYM11      := null;
ShipmentValue.PYM11      := null;
ShipmentValue.CYM12      := null;
ShipmentValue.PYM12      := null;

for i in 1..nCurMonth loop
    if i = nCurMonth then
        select sum(ShipmentValue)
        into    ShipmentValueCYM
        from    VW_PastRecordScope
        where   ISIC = reccm.ISIC
        and     Year = inYear
        and     Month = i
        and     CommodityCode = reccm.Comm
        and     ItemType = reccm.It
        and     Pre_Rev_Mark = inPr
        and     SurveyScope <= inSu
        and     CommodityCode = reccm.Comm
        and     ItemType = reccm.It
        and     Pre_Rev_Mark = '2'
        and     SurveyScope <= inSu

        odityCode
        emType
        e_Rev_Mark
        rveyScope;

    else
        select sum(ShipmentValue)
        into    ShipmentValueCYM
        from    VW_PastRecordScope
        where   ISIC = reccm.ISIC
        and     Year = inYear
        and     Month = i
        and     CommodityCode = reccm.Comm
        and     ItemType = reccm.It
        and     Pre_Rev_Mark = '2'
        and     SurveyScope <= inSu

        odityCode
        emType
        rveyScope;

    end if;

    select sum(ShipmentValue)
    into    ShipmentValuePYM
    from    VW_PastRecordScope
    where   ISIC = reccm.ISIC
    and     Year = nPY
    and     Month = i
    and     CommodityCode = reccm.CommodityCode
    and     ItemType = reccm.ItemType
    and     Pre_Rev_Mark = '2'
    and     SurveyScope <= inSurveySco

    pe;

    if i = 1 then
        ShipmentValue.CYM01      :=
        ShipmentValue.PYM01      :=

```



```

and      Pre_Rev_Mark = '2'
and      SurveyScope <= inSurveyScope;

-- Insert Actual Value Report(ShipmentValue)
p_InsFigComm(inSeq, '4', '1', inYear, reccm.ISIC, recc
m.CommodityCode,
reccl. IndustryTypeShortName, reccm.CommodityShortName, recum.UnitNam
e,
ShipmentValue.PYA, ShipmentValue.PYT, ShipmentValue.CYT,
ShipmentValue.CYM01, ShipmentValue.CYM02, ShipmentValue.CYM03;
ShipmentValue.CYM04, ShipmentValue.CYM05, ShipmentValue.CYM06,
ShipmentValue.CYM07, ShipmentValue.CYM08, ShipmentValue.CYM09,
ShipmentValue.CYM10, ShipmentValue.CYM11, ShipmentValue.CYM12,
ShipmentValue.PY2T,
ShipmentValue.PYM01, ShipmentValue.PYM02, ShipmentValue.PYM03,
ShipmentValue.PYM04, ShipmentValue.PYM05, ShipmentValue.PYM06,
ShipmentValue.PYM07, ShipmentValue.PYM08, ShipmentValue.PYM09,
ShipmentValue.PYM10, ShipmentValue.PYM11, ShipmentValue.PYM12);

end if;

-- Item Type 6
elseif reccm.ItemType = '6' then
-- Current Year Total Data Select
select sum(Capacity)
into Capacity.CYT
from VW_PastRecordScope
where ISIC = reccm.ISIC
and Year = inYear
and CommodityCode = reccm.CommodityCode
and ItemType = reccm.ItemType
and SurveyScope <= inSurveyScope
and ((Month = nCurMonth and Pre_Rev_Mark
= inPre_Rev_Mark)
or (Month < nCurMonth and Pre
_Rev_Mark = '2'));

-- Previous Year Total Data Select
select sum(Capacity)
into Capacity.PYT
from VW_PastRecordScope
where ISIC = reccm.ISIC
and Year = nPY
and CommodityCode = reccm.CommodityCode
and ItemType = reccm.ItemType
and Pre_Rev_Mark = '2'
and SurveyScope <= inSurveyScope;

if Capacity.CYT is null
and Capacity.PYT is null then
null;
else

-- Month Data Select
Capacity.CYM01 := null;
Capacity.PYM01 := null;
Capacity.CYM02 := null;
Capacity.PYM02 := null;
Capacity.CYM03 := null;
Capacity.PYM03 := null;
Capacity.CYM04 := null;
Capacity.PYM04 := null;
Capacity.CYM05 := null;
Capacity.PYM05 := null;
Capacity.CYM06 := null;
Capacity.PYM06 := null;
Capacity.CYM07 := null;
Capacity.PYM07 := null;
Capacity.CYM08 := null;
Capacity.PYM08 := null;
Capacity.CYM09 := null;
Capacity.PYM09 := null;
Capacity.CYM10 := null;
Capacity.PYM10 := null;
Capacity.CYM11 := null;
Capacity.PYM11 := null;
Capacity.CYM12 := null;

```

```

Capacity.PYM12 := null;
for i in 1..nCurMonth loop
    if i = nCurMonth then
        select sum(Capacity)
            into CapacityCYM
            from VW_PastRecordScope
            where ISIC = reccm.ISIC
            and Year = inYear
            and Month = i
            and CommodityCode = reccm.CommodityCode
            and ItemType = reccm.ItemType
            and Pre_Rev_Mark = inPreRevMark
            and SurveyScope <= inSurveyScope;

        Capacity.CYM := CapacityCYM;
        Capacity.PYM := CapacityCYM;

    else
        select sum(Capacity)
            into CapacityCYM
            from VW_PastRecordScope
            where ISIC = reccm.ISIC
            and Year = inYear
            and Month = i
            and CommodityCode = reccm.CommodityCode
            and ItemType = reccm.ItemType
            and Pre_Rev_Mark = '2'
            and SurveyScope <= inSurveyScope;

        Capacity.CYM := CapacityCYM;
        Capacity.PYM := CapacityCYM;

    end if;

    select sum(Capacity)
        into CapacityPYM
        from VW_PastRecordScope
        where ISIC = reccm.ISIC
        and Year = nPY
        and Month = i
        and CommodityCode = reccm.CommodityCode
        and ItemType = reccm.ItemType
        and Pre_Rev_Mark = '2'
        and SurveyScope <= inSurveyScope;

    Capacity.PYM := CapacityPYM;

    if i = 1 then
        Capacity.CYM01 := Capacity.CYM;
        Capacity.PYM01 := Capacity.PYM;
    elsif i = 2 then
        Capacity.CYM02 := Capacity.CYM;
        Capacity.PYM02 := Capacity.PYM;
    elsif i = 3 then
        Capacity.CYM03 := Capacity.CYM;
        Capacity.PYM03 := Capacity.PYM;
    elsif i = 4 then
        Capacity.CYM04 := Capacity.CYM;
        Capacity.PYM04 := Capacity.PYM;
    elsif i = 5 then
        Capacity.CYM05 := Capacity.CYM;
        Capacity.PYM05 := Capacity.PYM;
    elsif i = 6 then
        Capacity.CYM06 := Capacity.CYM;
        Capacity.PYM06 := Capacity.PYM;
    end if;
end loop;

```



```

into      RwMt_MEInventory. CYT
from      VW_PastRecordScope
where     ISIC = reccm. ISIC
and       Year = inYear
and       CommodityCode = reccm. CommodityCode
and       ItemType = reccm. ItemType
and       SurveyScope <= inSurveyScope
and       ((Month = nCurMonth and Pre_Rev_Mark
= inPre_Rev_Mark)
or        (Month < nCurMonth and Pre
_Rev_Mark = '2'));

-- Previous Year Total Data Select
select    sum(RwMt_MEInventory)
into      RwMt_MEInventory. PYT
from      VW_PastRecordScope
where     ISIC = reccm. ISIC
and       Year = nPY
and       CommodityCode = reccm. CommodityCode
and       ItemType = reccm. ItemType
and       Pre_Rev_Mark = '2'
and       SurveyScope <= inSurveyScope;

-- Output Checking
if        RwMt_MEInventory. CYT is null
and       RwMt_MEInventory. PYT is null then
null;
else

-- Month Data Select

RwMt_MEInventory. CYM01 := null;
RwMt_MEInventory. PYM01 := null;
RwMt_MEInventory. CYM02 := null;
RwMt_MEInventory. PYM02 := null;
RwMt_MEInventory. CYM03 := null;
RwMt_MEInventory. PYM03 := null;
RwMt_MEInventory. CYM04 := null;
RwMt_MEInventory. PYM04 := null;
RwMt_MEInventory. CYM05 := null;
RwMt_MEInventory. PYM05 := null;
RwMt_MEInventory. CYM06 := null;
RwMt_MEInventory. PYM06 := null;
RwMt_MEInventory. CYM07 := null;
RwMt_MEInventory. PYM07 := null;
RwMt_MEInventory. CYM08 := null;
RwMt_MEInventory. PYM08 := null;
RwMt_MEInventory. CYM09 := null;
RwMt_MEInventory. PYM09 := null;
RwMt_MEInventory. CYM10 := null;
RwMt_MEInventory. PYM10 := null;
RwMt_MEInventory. CYM11 := null;
RwMt_MEInventory. PYM11 := null;
RwMt_MEInventory. CYM12 := null;
RwMt_MEInventory. PYM12 := null;

for i in 1..nCurMonth loop
    if i = nCurMonth then
        select    sum(RwMt_MEInventory)
        into      RwMt_MEInventoryCYM
        from      VW_PastRecordScope
        where     ISIC = reccm. ISIC
        and       Year = inYear
        and       Month = i
        and       CommodityCode = reccm. Comm
odityCode
        and       ItemType = reccm. It
emType
        and       Pre_Rev_Mark = inPr
e_Rev_Mark
        and       SurveyScope <= inSu
rveyScope;
    else
        select    sum(RwMt_MEInventory)
        into      RwMt_MEInventoryCYM
        from      VW_PastRecordScope
        where     ISIC = reccm. ISIC
        and       Year = inYear

```

```

and      Month = i
and      CommodityCode = reccm.Comm

and      ItemType = reccm.It

and      Pre_Rev_Mark = '2'
and      SurveyScope <= inSu

```

emType

```
urveyScope;
```

```
end if;
```

```
select sum(RwMt_MEInventory)
into RwMt_MEInventoryPYM
from VW_PastRecordScope
where ISIC = reccm.ISIC
and Year = nPY
and Month = i
and CommodityCode = reccm.CommodityCode
and ItemType = reccm.ItemType
and Pre_Rev_Mark = '2'
and SurveyScope <= inSurveySco
```

pe;

RwMt_MEInventoryCYM;

RwMt_MEInventoryPYM;

RwMt_MEInventoryCYM;

RwMt_MEInventoryPYM;

RwMt_MEInventoryCYM;

RwMt_MEInventoryPYM;

RwMt_MEInventoryCYM;

RwMt_MEInventoryPYM;

RwMt_MEInventoryCYM;

RwMt_MEInventoryPYM;

RwMt_MEInventoryCYM;

RwMt_MEInventoryPYM;

RwMt MEInventoryCYM;

RwMt_MEInventoryPYM;

RwMt MEInventoryCYM;

RwMt_MEInventoryPYM:

RwMt MEInventoryCYM:

RwMt_MEInventoryPYM:

RwMt MEInventoryCYM

RwMt MEInventoryPYM

RwMt MEInventoryCYM

```

if      i = 1 then
    RwMt_MEInventory. CYM01  :=
    RwMt_MEInventory. PYM01  :=
elseif  i = 2 then
    RwMt_MEInventory. CYM02  :=
    RwMt_MEInventory. PYM02  :=
elseif  i = 3 then
    RwMt_MEInventory. CYM03  :=
    RwMt_MEInventory. PYM03  :=
elseif  i = 4 then
    RwMt_MEInventory. CYM04  :=
    RwMt_MEInventory. PYM04  :=
elseif  i = 5 then
    RwMt_MEInventory. CYM05  :=
    RwMt_MEInventory. PYM05  :=
elseif  i = 6 then
    RwMt_MEInventory. CYM06  :=
    RwMt_MEInventory. PYM06  :=
elseif  i = 7 then
    RwMt_MEInventory. CYM07  :=
    RwMt_MEInventory. PYM07  :=
elseif  i = 8 then
    RwMt_MEInventory. CYM08  :=
    RwMt_MEInventory. PYM08  :=
elseif  i = 9 then
    RwMt_MEInventory. CYM09  :=
    RwMt_MEInventory. PYM09  :=
elseif  i = 10 then
    RwMt_MEInventory. CYM10  :=
    RwMt_MEInventory. PYM10  :=
elseif  i = 11 then
    RwMt_MEInventory. CYM11  :=
    RwMt_MEInventory. PYM11  :=

```

```

RwMt_MEInventoryPYM;
                                elsif i = 12 then
RwMt_MEInventoryCYM;                                RwMt_MEInventory. CYM12 :=
RwMt_MEInventoryPYM;                                RwMt_MEInventory. PYM12 :=
                                                end if;
                                end loop;

-- Previous Year Average Data Select
                                select avg(RwMt_MEInventory)
                                into      RwMt_MEInventory. PYA
                                from      VW_PastRecordScope
                                where     ISIC = reccm. ISIC
                                and       Year = nPY
                                and       CommodityCode = reccm. CommodityCode
                                and       ItemType = reccm. ItemType
                                and       Pre_Rev_Mark = '2'
                                and       SurveyScope <= inSurveyScope;

-- Previous 2 Year Total Data Select
                                select sum(RwMt_MEInventory)
                                into      RwMt_MEInventory. PY2T
                                from      VW_PastRecordScope
                                where     ISIC = reccm. ISIC
                                and       Year = nPY2
                                and       CommodityCode = reccm. CommodityCode
                                and       ItemType = reccm. ItemType
                                and       Pre_Rev_Mark = '2'
                                and       SurveyScope <= inSurveyScope;

-- Insert Actual Value Report(RwMt_MEInventory)
                                p_InsFigComm(inSeq, '6', '1', inYear, reccm. ISIC, recc
m. CommodityCode,
                                reccl. IndustryTypeShortName, reccm. CommodityShortName, recum. UnitNam
e,
                                RwMt_MEInventory. PYA, RwMt_MEInventory. PYT, RwMt_MEInventory. CYT,
                                RwMt_MEInventory. CYM01, RwMt_MEInventory. CYM02, RwMt_MEInventory. CYM
03,
                                RwMt_MEInventory. CYM04, RwMt_MEInventory. CYM05, RwMt_MEInventory. CYM
06,
                                RwMt_MEInventory. CYM07, RwMt_MEInventory. CYM08, RwMt_MEInventory. CYM
09,
                                RwMt_MEInventory. CYM10, RwMt_MEInventory. CYM11, RwMt_MEInventory. CYM
12,
                                RwMt_MEInventory. PY2T,
                                RwMt_MEInventory. PYM01, RwMt_MEInventory. PYM02, RwMt_MEInventory. PYM
03,
                                RwMt_MEInventory. PYM04, RwMt_MEInventory. PYM05, RwMt_MEInventory. PYM
06,
                                RwMt_MEInventory. PYM07, RwMt_MEInventory. PYM08, RwMt_MEInventory. PYM
09,
                                RwMt_MEInventory. PYM10, RwMt_MEInventory. PYM11, RwMt_MEInventory. PYM
12);

                                end if;

                                end if;

                                end if;

                                fetch csrccm into      reccm. ISIC, reccm. ItemType, reccm. CommodityCode,
                                reccm. CommodityShortName, reccl. IndustryTypeShortNa
me, recum. UnitName;

                                end loop;

                                close csrccm;

                                DBMS_OUTPUT.PUT_LINE(' Ended p_ActualValue ' || to_char(sysdate, 'HH24:MI:SS'));

end;

-----
-- Growth Rate Against
-----
procedure p_GrowthRateAgainst (

```

```

inSeq
-- Record Area Define
rectf
rectfPM
rectfPY
-- Time Figures Cursor
Cursor csrtf is
select *
from TimeFigures
where Seq = inSeq;

Begin
-- Commodity Master Open Fetch
open csrtf;
fetch csrtf into rectf;

-- Time Figures Fetch Looping
while csrtf%found loop

-- Previous Month Calculation
rectfPM.CYM01 := f_CalGRA(rectf.CYM01, rectf.PYM12);
rectfPM.CYM02 := f_CalGRA(rectf.CYM02, rectf.CYM01);
rectfPM.CYM03 := f_CalGRA(rectf.CYM03, rectf.CYM02);
rectfPM.CYM04 := f_CalGRA(rectf.CYM04, rectf.CYM03);
rectfPM.CYM05 := f_CalGRA(rectf.CYM05, rectf.CYM04);
rectfPM.CYM06 := f_CalGRA(rectf.CYM06, rectf.CYM05);
rectfPM.CYM07 := f_CalGRA(rectf.CYM07, rectf.CYM06);
rectfPM.CYM08 := f_CalGRA(rectf.CYM08, rectf.CYM07);
rectfPM.CYM09 := f_CalGRA(rectf.CYM09, rectf.CYM08);
rectfPM.CYM10 := f_CalGRA(rectf.CYM10, rectf.CYM09);
rectfPM.CYM11 := f_CalGRA(rectf.CYM11, rectf.CYM10);
rectfPM.CYM12 := f_CalGRA(rectf.CYM12, rectf.CYM11);

p_InsFigComm(rectf.seq, rectf.FigureType, '2', rectf.Year, rectf.ISIC,
rectf.CommodityCode, rectf.IndustryTypeShortName, rectf.CommoditySho
rtName,
rectf.UnitName, null, null, null,
rectfPM.CYM01, rectfPM.CYM02, rectfPM.CYM03, rectfPM.CYM04,
rectfPM.CYM05, rectfPM.CYM06, rectfPM.CYM07, rectfPM.CYM08,
rectfPM.CYM09, rectfPM.CYM10, rectfPM.CYM11, rectfPM.CYM12,
null, null, null, null, null, null, null, null, null, null, null);

-- Same Month Of Previous Year Caluculation
rectfPY.PYT := f_CalGRA(rectf.PYT, rectf.PY2T);
rectfPY.CYT := f_CalGRA(rectf.CYT, rectf.PYT);

rectfPY.CYM01 := f_CalGRA(rectf.CYM01, rectf.PYM01);
rectfPY.CYM02 := f_CalGRA(rectf.CYM02, rectf.PYM02);
rectfPY.CYM03 := f_CalGRA(rectf.CYM03, rectf.PYM03);
rectfPY.CYM04 := f_CalGRA(rectf.CYM04, rectf.PYM04);
rectfPY.CYM05 := f_CalGRA(rectf.CYM05, rectf.PYM05);
rectfPY.CYM06 := f_CalGRA(rectf.CYM06, rectf.PYM06);
rectfPY.CYM07 := f_CalGRA(rectf.CYM07, rectf.PYM07);
rectfPY.CYM08 := f_CalGRA(rectf.CYM08, rectf.PYM08);
rectfPY.CYM09 := f_CalGRA(rectf.CYM09, rectf.PYM09);
rectfPY.CYM10 := f_CalGRA(rectf.CYM10, rectf.PYM10);
rectfPY.CYM11 := f_CalGRA(rectf.CYM11, rectf.PYM11);
rectfPY.CYM12 := f_CalGRA(rectf.CYM12, rectf.PYM12);

p_InsFigComm(rectf.seq, rectf.FigureType, '3', rectf.Year, rectf.ISIC,
rectf.CommodityCode, rectf.IndustryTypeShortName, rectf.CommoditySho
rtName,
rectf.UnitName, null, rectfPY.PYT, rectfPY.CYT,
rectfPY.CYM01, rectfPY.CYM02, rectfPY.CYM03, rectfPY.CYM04,
rectfPY.CYM05, rectfPY.CYM06, rectfPY.CYM07, rectfPY.CYM08,
rectfPY.CYM09, rectfPY.CYM10, rectfPY.CYM11, rectfPY.CYM12,
null, null, null, null, null, null, null, null, null, null, null);

fetch csrtf into rectf;

end loop;

close csrtf;

end;

```

-- Time Series List of Figures by Commodity Main

```
procedure p_FigCommMk (  
    inSeq          in      number,  
    inYear         in      number,  
    inAggregationRange in  varchar2,  
    inISIC         in      varchar2,  
    inSurveyScope  in      varchar2,  
    inPre_Rev_Mark in      varchar2) is  
begin  
    p_ActualValue(inSeq, inYear, inAggregationRange, inISIC, inSurveyScope, inPre_Rev_Mark);  
    p_GrowthRateAgainst(inSeq);  
end;  
  
end TimeSeriesMk;  
/  
show errors  
/
```

```

-----
-- Package Name : User Request Report
-- Package ID   : UserRep
-- Create Date  : 25/Feb/2000
-- Replace Date  : xx/xx/xxxx
-- Author       : T. Nakamura
--
-- File        : @c:\jica\%UserRep;
-- Test
-- Test        : BEGIN UserRep. p_AnnualColSt(77, '1', 'XXXXXX
-- Test        : BEGIN UserRep. p_CPMYRawEst(2, '171110', nul
-- Test        : BEGIN UserRep. p_CPMYRawISIC(1, '2', '151210
-- Test        : BEGIN UserRep. p_CPMYRawISIC(1, '2', '151210
-- Test        : BEGIN UserRep. p_CPMYRawISIC(1, '2', '151210
-- Test        : BEGIN UserRep. p_CPMYRawISIC(1, '2', '151210
-----
create or replace package UserRep is

procedure p_AnnualColSt (
    inSeq          in number,
    inAggregationRange in varchar2,
    inISIC          in number,
    n varchar2,
    inSelContinuousRespondent in varchar2,
    inYear          in number,
    n number,
    inSurveyScope    in varchar2);

procedure p_CPMYRawEst (
    inSeq          in number,
    inISIC          in number,
    n varchar2,
    inRegistrationNo in varchar2,
    Null:All Data Select Not Null:Select
    spondent and inSurveyScope) -- (Ignore Input Parameter about inSelContinuousRe
    inYear          in number,
    n number,
    inMonth          in number,
    n number,
    inSelContinuousRespondent in varchar2,
    inSurveyScope    in varchar2,
    -- 0:None 1:Only 2:All
    in varchar2);

procedure p_CPMYRawISIC (
    inSeq          in number,
    inAggregationRange in varchar2,
    inISIC          in number,
    n varchar2,
    inYear          in number,
    n number,
    inMonth          in number,
    n number,
    inSelContinuousRespondent in varchar2,
    inSurveyScope    in varchar2,
    -- 0:None 1:Only 2:All
    in varchar2);

end UserRep;
/
show errors
/

create or replace package body UserRep is
-----
-- Collection Status of Establishment
--
-- inSelContinuousRespondent
-- 0:None
-- 1:Only
-- 2:All
-----
procedure p_AnnualColSt (
    inSeq          in number,
    inAggregationRange in varchar2,
    inISIC          in number,
    n varchar2,
    inSelContinuousRespondent in varchar2,
    inYear          in number,
    n number,
    inSurveyScope    in varchar2);

```

```

        inSelContinuousRespondent      in      varchar2,
        inYear
n      number,
        inSurveyScope                  in      varchar2) is

-- Record Area Define
recsh      SurveyHeader%rowtype;
recem      EstablishmentMaster%rowtype;
recac      AnnualCollectionStatus%rowtype;

-- Work Area Define
sISIC2d      Varchar2(2);
sISIC4d      Varchar2(4);
sCurYM      number;

-- Establishment Master Table Cursor
Cursor csrem is
ent      select  ISIC, RegistrationNo, EstablishmentName, CompanyTel, ContinuousRespond
        from  EstablishmentMaster
        where  SurveyScope <= inSurveyScope;

begin
-- ISIC Edit
sISIC2d := substr(inISIC, 1, 2);
sISIC4d := substr(inISIC, 1, 4);

-- Set Annual Collection Status Table For Header
recac. Seq
        := inSeq;

recac. Year
inYear;
recac. SurveyScope
        := inSurveyScope;
        if      inSelContinuousRespondent = '0' then
recac. SelContinuousRespondent      := 'None';
        elsif   inSelContinuousRespondent = '1' then
recac. SelContinuousRespondent      := 'Only';
        elsif   inSelContinuousRespondent = '2' then
recac. SelContinuousRespondent      := 'All';
        end if;

-- Get Current Batch Process
select  max(Year * 100 + Month)
into    sCurYM
from    BatchControl
where   PreliminaryDate is not null
or      RevisedDate is not null;

-- Establishment Master Cursor Open Fetch
open    csrem;
fetch   csrem
into    recem. ISIC, recem. RegistrationNo,
recem. EstablishmentName, recem. CompanyTel, recem. Con
tinuousRespondent;

-- Establishment Master Cursor Fetch Looping
while csrem%found loop

-- Check Aggregation Range
        if      (inAggregationRange = '1')
or      (inAggregationRange = '2' and substr(recem. ISIC, 1, 2) = sISIC2d)
or      (inAggregationRange = '3' and substr(recem. ISIC, 1, 4) = sISIC4d)
or      (inAggregationRange = '4' and substr(recem. ISIC, 1, 6) = inISIC) then

-- Check Continuous Respondent
        if      (inSelContinuousRespondent = '0' and recem. ContinuousRespo
ndent = '0')
or      (inSelContinuousRespondent = '1' and recem. ContinuousRespo
ndent = '1')
or      (inSelContinuousRespondent = '2') then

-- Set Annual Collection Status Column
recac. ISIC
        := recem. ISIC;
recac. RegistrationNo
onNo;
        := recem. Registrati
recac. EstablishmentName
        := recem. EstablishmentName;

```

```

Respondent;                                recac. ContinuousRespondent      := recem. Continuous
                                           recac. CompanyTel
:= recem. CompanyTel;
                                           recac. EstimatedMark01      :=
null;                                     recac. EstimatedMark02      :=
null;                                     recac. EstimatedMark03      :=
null;                                     recac. EstimatedMark04      :=
null;                                     recac. EstimatedMark05      :=
null;                                     recac. EstimatedMark06      :=
null;                                     recac. EstimatedMark07      :=
null;                                     recac. EstimatedMark08      :=
null;                                     recac. EstimatedMark09      :=
null;                                     recac. EstimatedMark10      :=
null;                                     recac. EstimatedMark11      :=
null;                                     recac. EstimatedMark12      :=
null;

-- Check Survey Header
for i in 1..12 loop
begin
    select EstimatedMark
    into   recsh. EstimatedMark
    from   SurveyHeader
    where  ISIC = recem. ISIC
    and    Year = inYear
    and    Month = i
    and    RegistrationNo = recem. Registratio

nNo;

    if      recsh. EstimatedMark = '0'      then
    recsh. EstimatedMark := '/';
    elsif   recsh. EstimatedMark = '1'      then
    recsh. EstimatedMark := '1';
    elsif   recsh. EstimatedMark = '2'      then
    recsh. EstimatedMark := 'A';
    end if;

    exception
    when no_data_found then
        if inYear * 100 + i > sCurYM then
            recsh. EstimatedMark := nul

l;

        else
            recsh. EstimatedMark := 'X';
        end if;

    end;

-- Set EstimatedMark
if      i = 1 then
ark;    recac. EstimatedMark01      := recsh. EstimatedM
elsif   i = 2 then
ark;    recac. EstimatedMark02      := recsh. EstimatedM
elsif   i = 3 then
ark;    recac. EstimatedMark03      := recsh. EstimatedM
elsif   i = 4 then
ark;    recac. EstimatedMark04      := recsh. EstimatedM
elsif   i = 5 then
ark;    recac. EstimatedMark05      := recsh. EstimatedM
elsif   i = 6 then
ark;    recac. EstimatedMark06      := recsh. EstimatedM

```



```

ark;
                                elsif i = 7 then
ark;                                recac. EstimatedMark07 := recsh. EstimatedM
                                elsif i = 8 then
ark;                                recac. EstimatedMark08 := recsh. EstimatedM
                                elsif i = 9 then
ark;                                recac. EstimatedMark09 := recsh. EstimatedM
                                elsif i = 10 then
ark;                                recac. EstimatedMark10 := recsh. EstimatedM
                                elsif i = 11 then
ark;                                recac. EstimatedMark11 := recsh. EstimatedM
                                elsif i = 12 then
ark;                                recac. EstimatedMark12 := recsh. EstimatedM
                                end if;

                                end loop;

-- Insert Annual Collection Status Table
                                insert into AnnualCollectionStatus(
                                        Seq,
                                        Year,
                                        ISIC,
                                        SurveyScope,
                                        SelContinuousRespondent,
                                        RegistrationNo,
                                        CompanyTel,
                                        EstablishmentName,
                                        ContinuousRespondent,
                                        EstimatedMark01,
                                        EstimatedMark02,
                                        EstimatedMark03,
                                        EstimatedMark04,
                                        EstimatedMark05,
                                        EstimatedMark06,
                                        EstimatedMark07,
                                        EstimatedMark08,
                                        EstimatedMark09,
                                        EstimatedMark10,
                                        EstimatedMark11,
                                        EstimatedMark12)
                                values(
                                        recac. Seq,
                                        recac. Year,
                                        recac. ISIC,
                                        recac. SurveyScope,
                                        recac. SelContinuousRespondent,
                                        recac. RegistrationNo,
                                        recac. CompanyTel,
                                        recac. EstablishmentName,
                                        recac. ContinuousRespondent,
                                        recac. EstimatedMark01,
                                        recac. EstimatedMark02,
                                        recac. EstimatedMark03,
                                        recac. EstimatedMark04,
                                        recac. EstimatedMark05,
                                        recac. EstimatedMark06,
                                        recac. EstimatedMark07,
                                        recac. EstimatedMark08,
                                        recac. EstimatedMark09,
                                        recac. EstimatedMark10,
                                        recac. EstimatedMark11,
                                        recac. EstimatedMark12);

                                end if;
end if;

fetch csrem
into recem. ISIC, recem. RegistrationNo,
recem. EstablishmentName, recem. CompanyTel,
recem. ContinuousRespondent;

```

```

        end loop;

        close csrem;

    end;

-- Insert CPM/CPY of the Raw by Establishment Table
-----
procedure p_insCPMYRawEst(
    inseq                                num
ber,
    inISIC                                varchar2,
    inYear                                number,
    inMonth                                number,
    inRegistrationNo                      varchar2,
    inOutputCnt                          number,
    inIndustryTypeShortName varchar2,
    inEstablishmentName                  varchar2,
    inContinuousRespondent varchar2,
    inCommodityCodeWk                  varchar2,
    inDataTypeWK                        varchar2,
    inQuestionnaireWK1                  varchar2,
    inQuestionnaireWK2                  varchar2,
    inQuestionnaireWK3                  varchar2,
    inQuestionnaireWK4                  varchar2,
    inQuestionnaireWK5                  varchar2,
    inQuestionnaireWK6                  varchar2,
    inQuestionnaireWK7                  varchar2) is
begin
    insert
        into CPMYRawEst(
            seq,
            ISIC,
            Year,
            Month,
            RegistrationNo,
            OutputCnt,
            IndustryTypeShortName,
            EstablishmentName,
            ContinuousRespondent,
            CommodityCodeWk,
            DataTypeWK,
            QuestionnaireWK1,
            QuestionnaireWK2,
            QuestionnaireWK3,
            QuestionnaireWK4,
            QuestionnaireWK5,
            QuestionnaireWK6,
            QuestionnaireWK7)
        values(
            inseq,
            inISIC,
            inYear,
            inMonth,
            inRegistrationNo,
            inOutputCnt,
            inIndustryTypeShortName,
            inEstablishmentName,
            inContinuousRespondent,
            inCommodityCodeWk,
            inDataTypeWK,
            inQuestionnaireWK1,
            inQuestionnaireWK2,
            inQuestionnaireWK3,
            inQuestionnaireWK4,
            inQuestionnaireWK5,
            inQuestionnaireWK6,
            inQuestionnaireWK7);
end;

-- Calculation CPM and CPY
-----
function f_calCP(
    inCur                                number,

```

```

har2 is      inPre      number) return varc

      sCPMY      varchar2(20);

begin
  if      inPre = 0
  or      inPre is null
  or      inCur = 0
  or      inCur is null then
    sCPMY := null;
  else
    sCPMY := to_char((inCur / inPre - 1) * 100, '99,990.00') || '%';
  end if;

  return sCPMY;

end;

-----
-- Format For Number Type
-----
function f_format(
  inNum      number) return varchar2 is
  sNum      varchar2(20);

begin
  if      inNum = 0 then
    sNum := '0.00';
  else
    sNum := to_char(inNum, '9,999,990.00');
  end if;

  return sNum;

end;

-----
-- Edit Continuous Respondent
-----
function f_EditCR(
  inContinuousRespondent varchar2) return varchar2 is
  sContinuousRespondent  varchar2(1);

begin
  if      inContinuousRespondent = '1' then
    sContinuousRespondent := '*';
  else
    sContinuousRespondent := null;
  end if;

  return sContinuousRespondent;

end;

-----
-- CPM/CPY of the Raw Data Making by Establishment
-----
procedure p_CPMYRawEst (
  inSeq      in      number,
  inISIC     varchar2,
  inRegistrationNo  in      varchar2,
  inYear     number,
  inMonth    number,
  inSelContinuousRespondent  in      varchar2,
  inSurveyScope      in      varchar2) is
  -- Record Area Define
  recsd      SurveyData%rowtype;
  recsdy     SurveyData%rowtype;
  recsdm     SurveyData%rowtype;

```

```

reccp      CPMYRawEst%rowtype;
recem      EstablishmentMaster%rowtype;
reccl      ClassMaster%rowtype;
reccm      CommodityMaster%rowtype;

-- Work Area
nPMY      number;
nPMM      number;

nPYY      number;
nPYM      number;

sOldRegistrationNo      Varchar2(20) := null;
sOldItemType            Varchar2(1) := null;

-- Establishment Master Table Cursor
Cursor  csrsd is
select *
      from SurveyData
     where ISIC = inISIC
           and Year = inYear
           and Month = inMonth
           and ItemType in('1','2','3','4','6')
     order by RegistrationNo, ItemType, CommodityCode;

begin
-- DBMS_OUTPUT.ENABLE(600000);

-- PM and PY Calculation
if      inMonth = 1 then
    nPMY := inYear - 1;
    nPMM := 12;
else
    nPMY := inYear;
    nPMM := inMonth - 1;
end if;

nPYY := inYear - 1;
nPYM := inMonth;

-- Select Class Master
begin
    select IndustryTypeShortName
    into   reccl.IndustryTypeShortName
    from   ClassMaster
    where  ISIC = inISIC;

    exception
        when no_data_found then
            reccl.IndustryTypeShortName := null;
        end;

-- Survey Data Cursor Open Fetch
open  csrsd;
fetch csrsd
into  recsd;

-- Survey Data Cursor Fetch Looping
while csrsd%found loop
-- Input Parameter Checking(1)
if      inRegistrationNo is null      then
    null;
else
    if      inRegistrationNo = recsd.RegistrationNo then
        null;
    else
        goto FetchNext;
    end if;
end if;

-- Set Output Counter
if      recsd.RegistrationNo = sOldRegistrationNo then
    null;
else
    reccp.OutputCnt := 0;
    sOldRegistrationNo := recsd.RegistrationNo;
    sOldItemType := null;

```

```

begin
    select *
    into recem
    from EstablishmentMaster
    where ISIC = recsd. ISIC
    and RegistrationNo = recsd. Registratio
nNo;

    exception
    when no_data_found then
        recem. EstablishmentName := null;
        recem. ContinuousRespondent := null;
    end;

end if;

-- Input Parameter Checking(2)
-- DBMS_OUTPUT.PUT_LINE('check start' || recsd. RegistrationNo);

    if inRegistrationNo is null then
        if inSelContinuousRespondent = '0' then
            if recem. ContinuousRespondent = '1' then
-- DBMS_OUTPUT.PUT_LINE('1' || recem. ContinuousRespondent);
                goto FetchNext;
            else
-- DBMS_OUTPUT.PUT_LINE('0' || recem. ContinuousRespondent);
                null;
            end if;
        elsif inSelContinuousRespondent = '1' then
            if recem. ContinuousRespondent = '1' then
                null;
            else
                goto FetchNext;
            end if;
        elsif inSelContinuousRespondent = '2' then
            null;
        end if;
        if inSurveyScope = recem. SurveyScope then
            null;
        else
            goto FetchNext;
        end if;
    end if;

-- Item Type Check
    if recsd. ItemType = sOldItemType then
        null;
    else
        reccp. OutputCnt := reccp. OutputCnt + 1;
        if recsd. ItemType = '1' then
            p_InsCPMYRawEst(inSeq, inISIC, inYear, inMonth, recsd. Registra
tionNo, reccp. OutputCnt,
                reccl. IndustryTypeShortName, recem. EstablishmentName,
                f_editCR(recem. ContinuousRespondent),
                '1.Finished Goods(Quantity)',
                null, 'BM_Inventory', 'Production', 'Receipt',
                'Domestic', 'Export', 'Others', 'ME_Inventory');
            elsif recsd. ItemType = '2' then
                p_InsCPMYRawEst(inSeq, inISIC, inYear, inMonth, recsd. Registra
tionNo, reccp. OutputCnt,
                reccl. IndustryTypeShortName, recem. EstablishmentName,
                f_editCR(recem. ContinuousRespondent),
                '2.Finished Goods(Values)',
                null, 'Shipment', 'Sales Plan',
                null, null, null, null, null);
            elsif recsd. ItemType = '3' then

```

```

        p_InsCPMYRawEst(inSeq, inISIC, inYear, inMonth, recsd. Registra
tionNo, reccp. OutputCnt,
        reccl. IndustryTypeShortName, recem. EstablishmentName,
        f_editCR(recem. ContinuousRespondent),
        '3. Labor',
        null, 'Labor Total', 'Labor SC',
        null, null, null, null, null);
        elsif recsd. ItemType = '4' then
            p_InsCPMYRawEst(inSeq, inISIC, inYear, inMonth, recsd. Registra
tionNo, reccp. OutputCnt,
            reccl. IndustryTypeShortName, recem. EstablishmentName,
            f_editCR(recem. ContinuousRespondent),
            '4. Row Materials',
            null, 'RwMtME_Inventory', 'RwMtME_InvValue',
            null, null, null, null, null);
            elsif recsd. ItemType = '6' then
                p_InsCPMYRawEst(inSeq, inISIC, inYear, inMonth, recsd. Registra
tionNo, reccp. OutputCnt,
                reccl. IndustryTypeShortName, recem. EstablishmentName,
                f_editCR(recem. ContinuousRespondent),
                '6. Capacity',
                null, 'Capacity', null, null, null, null, null);
            end if;

            sOldItemType := recsd. ItemType;
        end if;

-- Get CPM Data
begin
    select *
        into recsdm
        from SurveyData
        where ISIC = r
            and ItemType =
            and CommodityCode = recsd. CommodityCo
            and RegistrationNo = recsd. RegistrationNo
            and Year = n
            and Month = n
        de
        PMY
        PMM;

    exception
        when no_data_found then
            recsdm. BM_Inventory := null;
            recsdm. ProductionQTY := null;
            recsdm. Receipts := null;
            recsdm. DomesticSales := null;
            recsdm. Export := null;
            recsdm. OtherSales := null;
            recsdm. ME_Inventory := null;
            recsdm. Capacity := null;
            recsdm. ShipmentValue := null;
            recsdm. SalesPlan := null;
            recsdm. LaborTotal := null;
            recsdm. Labor_SC := null;
            recsdm. RwMt_MEInventory := null;
            recsdm. RwMt_MEInventoryValue := null;
        end;

```

```

-- Get CPY Data
begin
    select *
    into recsdy
    from SurveyData
    where ISIC = r
    and ItemType = r
    and CommodityCode = recsd.CommodityCo
    and RegistrationNo = recsd.RegistrationNo
    and Year = n
    and Month = n
    de;

    exception
    when no_data_found then
        recsdy.BM_Inventory := null;
        recsdy.ProductionQTY := null;
        recsdy.Receipts := null;
        recsdy.DomesticSales := null;
        recsdy.Export := null;
        recsdy.OtherSales := null;
        recsdy.ME_Inventory := null;
        recsdy.Capacity := null;
        recsdy.ShipmentValue := null;
        recsdy.SalesPlan := null;
        recsdy.LaborTotal := null;
        recsdy.Labor_SC := null;
        recsdy.RwMt_MEInventory := null;
        recsdy.RwMt_MEInventoryValue := null;
    end;

-- Select Commodity Master
begin
    select CommodityShortName
    into reccm.CommodityShortName
    from CommodityMaster
    where ISIC = r
    and ItemType = r
    and CommodityCode = recsd.CommodityCo
    de;

    exception
    when no_data_found then
        reccm.CommodityShortName := null;
    end;

-- Item Type 1 Edit
if recsd.ItemType = '1' then
-- Check Input Data
    if recsd.BM_Inventory is null
    and recsd.ProductionQty is null
    and recsd.Receipts is null
    and recsd.DomesticSales is null
    and recsd.Export is null
    and recsd.OtherSales is null
    and recsd.ME_Inventory is null
    and recsdm.BM_Inventory is null
    and recsdm.ProductionQty is null
    and recsdm.Receipts is null
    and recsdm.DomesticSales is null
    and recsdm.Export is null
    and recsdm.OtherSales is null
    and recsdm.ME_Inventory is null
    and recsdy.BM_Inventory is null
    and recsdy.ProductionQty is null
    and recsdy.Receipts is null
    and recsdy.DomesticSales is null
    and recsdy.Export is null
    and recsdy.OtherSales is null
    and recsdy.ME_Inventory is null then
        null;

```

```

else
-- This Month Data Insert
reccp.OutputCnt := reccp.OutputCnt + 1;
p_InsCPMYRawEst(inSeq, inISIC, inYear, inMonth, recsd. Registra
tionNo, reccp.OutputCnt,
recl. IndustryTypeShortName, recem. EstablishmentName,
f_editCR(recem. ContinuousRespondent),
' ' || recsd. CommodityCode || ' ' || substr(reccm. CommodityShortName, 1, 2
5), 'This Month',
f_format(recsd. BM_Inventory), f_format(recsd. ProductionQty),
f_format(recsd. Receipts), f_format(recsd. DomesticSales),
f_format(recsd. Export), f_format(recsd. OtherSales),
f_format(recsd. ME_Inventory));

-- Previous Month Data Insert
reccp.OutputCnt := reccp.OutputCnt + 1;
p_InsCPMYRawEst(inSeq, inISIC, inYear, inMonth, recsd. Registra
tionNo, reccp.OutputCnt,
recl. IndustryTypeShortName, recem. EstablishmentName,
f_editCR(recem. ContinuousRespondent),
null, 'Pre Month',
f_format(reccdm. BM_Inventory), f_format(reccdm. ProductionQty),
f_format(reccdm. Receipts), f_format(reccdm. DomesticSales),
f_format(reccdm. Export), f_format(reccdm. OtherSales),
f_format(reccdm. ME_Inventory));

-- Previous Year Data Insert
reccp.OutputCnt := reccp.OutputCnt + 1;
p_InsCPMYRawEst(inSeq, inISIC, inYear, inMonth, recsd. Registra
tionNo, reccp.OutputCnt,
recl. IndustryTypeShortName, recem. EstablishmentName,
f_editCR(recem. ContinuousRespondent),
null, 'Pre Year',
f_format(reccsy. BM_Inventory), f_format(reccsy. ProductionQty),
f_format(reccsy. Receipts), f_format(reccsy. DomesticSales),
f_format(reccsy. Export), f_format(reccsy. OtherSales),
f_format(reccsy. ME_Inventory));

-- CPM Data Insert
reccp.OutputCnt := reccp.OutputCnt + 1;
p_InsCPMYRawEst(inSeq, inISIC, inYear, inMonth, recsd. Registra
tionNo, reccp.OutputCnt,
recl. IndustryTypeShortName, recem. EstablishmentName,
f_editCR(recem. ContinuousRespondent),
null, 'CPM(%)',
f_CalCP(recsd. BM_Inventory, reccdm. BM_Inventory),
f_CalCP(recsd. ProductionQty, reccdm. ProductionQty),
f_CalCP(recsd. Receipts, reccdm. Receipts),

```



```

        f_CalCP(recsd. DomesticSales, recsdm. DomesticSales),
        f_CalCP(recsd. Export, recsdm. Export),
        f_CalCP(recsd. OtherSales, recsdm. OtherSales),
        f_CalCP(recsd. ME_Inventory, recsdm. ME_Inventory));

-- CPY Data Insert
        reccp. OutputCnt := reccp. OutputCnt + 1;
        p_InsCPMYRawEst(inSeq, inISIC, inYear, inMonth, recsd. Registra
tionNo, reccp. OutputCnt,
        reccl. IndustryTypeShortName, recem. EstablishmentName,
        f_editCR(recem. ContinuousRespondent),
        null, 'CPY(%)',
        f_CalCP(recsd. BM_Inventory, recsdy. BM_Inventory),
        f_CalCP(recsd. ProductionQty, recsdy. ProductionQty),
        f_CalCP(recsd. Receipts, recsdy. Receipts),
        f_CalCP(recsd. DomesticSales, recsdy. DomesticSales),
        f_CalCP(recsd. Export, recsdy. Export),
        f_CalCP(recsd. OtherSales, recsdy. OtherSales),
        f_CalCP(recsd. ME_Inventory, recsdy. ME_Inventory));
        end if;

-- Item Type 2 Edit
        elseif recsd. ItemType = '2' then
-- Check Input Data
                if recsd. ShipmentValue is null
                and recsd. SalesPlan is null
                and recsdm. ShipmentValue is null
                and recsdm. SalesPlan is null
                and recsdy. ShipmentValue is null
                and recsdy. SalesPlan is null then
                        null;
                else
-- This Month Data Insert
                        reccp. OutputCnt := reccp. OutputCnt + 1;
                        p_InsCPMYRawEst(inSeq, inISIC, inYear, inMonth, recsd. Registra
tionNo, reccp. OutputCnt,
                        reccl. IndustryTypeShortName, recem. EstablishmentName,
                        f_editCR(recem. ContinuousRespondent),
                        ' ' || recsd. CommodityCode || ' ' || substr(reccm. CommodityShortName, 1, 2
5), 'This Month',
                        f_format(recsd. ShipmentValue), f_format(recsd. SalesPlan),
                        null, null, null, null, null);

-- Previous Month Data Insert
                        reccp. OutputCnt := reccp. OutputCnt + 1;
                        p_InsCPMYRawEst(inSeq, inISIC, inYear, inMonth, recsd. Registra
tionNo, reccp. OutputCnt,
                        reccl. IndustryTypeShortName, recem. EstablishmentName,
                        f_editCR(recem. ContinuousRespondent),
                        null, 'Pre Month',
                        f_format(recsdm. ShipmentValue), f_format(recsdm. SalesPlan),
                        null, null, null, null, null);

```

```

-- Previous Year Data Insert
reccp. OutputCnt := reccp. OutputCnt + 1;
p_InsCPMYRawEst(inSeq, inISIC, inYear, inMonth, recsd. Registra
tionNo, reccp. OutputCnt,
    reccl. IndustryTypeShortName, recem. EstablishmentName,
    f_editCR(recem. ContinuousRespondent),
    null, 'Pre Year',
    f_format(recsd. ShipmentValue), f_format(recsd. SalesPlan),
    null, null, null, null, null);

-- CPM Data Insert
reccp. OutputCnt := reccp. OutputCnt + 1;
p_InsCPMYRawEst(inSeq, inISIC, inYear, inMonth, recsd. Registra
tionNo, reccp. OutputCnt,
    reccl. IndustryTypeShortName, recem. EstablishmentName,
    f_editCR(recem. ContinuousRespondent),
    null, 'CPM(%)',
    f_CalCP(recsd. ShipmentValue, recsdm. ShipmentValue),
    f_CalCP(recsd. SalesPlan, recsdm. SalesPlan),
    null, null, null, null, null);

-- CPY Data Insert
reccp. OutputCnt := reccp. OutputCnt + 1;
p_InsCPMYRawEst(inSeq, inISIC, inYear, inMonth, recsd. Registra
tionNo, reccp. OutputCnt,
    reccl. IndustryTypeShortName, recem. EstablishmentName,
    f_editCR(recem. ContinuousRespondent),
    null, 'CPY(%)',
    f_CalCP(recsd. ShipmentValue, recsd. ShipmentValue),
    f_CalCP(recsd. SalesPlan, recsd. SalesPlan),
    null, null, null, null, null);
end if;

-- Item Type 3 Edit
elseif recsd. ItemType = '3' then
-- Check Input Data
    if recsd. LaborTotal is null
    and recsd. Labor_SC is null
    and recsdm. LaborTotal is null
    and recsdm. Labor_SC is null
    and recsd. LaborTotal is null
    and recsd. Labor_SC is null then
        null;
    else
-- This Month Data Insert
        reccp. OutputCnt := reccp. OutputCnt + 1;
        p_InsCPMYRawEst(inSeq, inISIC, inYear, inMonth, recsd. Registra
tionNo, reccp. OutputCnt,
            reccl. IndustryTypeShortName, recem. EstablishmentName,
            f_editCR(recem. ContinuousRespondent),
            ' ' || recsd. CommodityCode || ' ' || substr(recem. CommodityShortName, 1, 2
5), 'This Month',
            f_format(recsd. LaborTotal), f_format(recsd. Labor_SC),
            null, null, null, null, null);

```

```

-- Previous Month Data Insert
                                reccp.OutputCnt := reccp.OutputCnt + 1;
                                p_InsCPMYRawEst(inSeq, inISIC, inYear, inMonth, recsd.Registra
tionNo, reccp.OutputCnt,
                                reccl.IndustryTypeShortName, recem.EstablishmentName,
                                f_editCR(recem.ContinuousRespondent),
                                null, 'Pre Month',
                                f_format(recsdm.LaborTotal), f_format(recsdm.Labor_SC),
                                null, null, null, null, null);

-- Previous Year Data Insert
                                reccp.OutputCnt := reccp.OutputCnt + 1;
                                p_InsCPMYRawEst(inSeq, inISIC, inYear, inMonth, recsd.Registra
tionNo, reccp.OutputCnt,
                                reccl.IndustryTypeShortName, recem.EstablishmentName,
                                f_editCR(recem.ContinuousRespondent),
                                null, 'Pre Year',
                                f_format(recsdy.LaborTotal), f_format(recsdy.Labor_SC),
                                null, null, null, null, null);

-- CPM Data Insert
                                reccp.OutputCnt := reccp.OutputCnt + 1;
                                p_InsCPMYRawEst(inSeq, inISIC, inYear, inMonth, recsd.Registra
tionNo, reccp.OutputCnt,
                                reccl.IndustryTypeShortName, recem.EstablishmentName,
                                f_editCR(recem.ContinuousRespondent),
                                null, 'CPM(%)',
                                f_CalCP(recsd.LaborTotal, recsdm.LaborTotal),
                                f_CalCP(recsd.Labor_SC, recsdm.Labor_SC),
                                null, null, null, null, null);

-- CPY Data Insert
                                reccp.OutputCnt := reccp.OutputCnt + 1;
                                p_InsCPMYRawEst(inSeq, inISIC, inYear, inMonth, recsd.Registra
tionNo, reccp.OutputCnt,
                                reccl.IndustryTypeShortName, recem.EstablishmentName,
                                f_editCR(recem.ContinuousRespondent),
                                null, 'CPY(%)',
                                f_CalCP(recsd.LaborTotal, recsdy.LaborTotal),
                                f_CalCP(recsd.Labor_SC, recsdy.Labor_SC),
                                null, null, null, null, null);
                                end if;

-- Item Type 4 Edit
                                elsif recsd.ItemType = '4' then
-- Check Input Data
                                if recsd.RwMt_MEInventory is null
                                and recsd.RwMt_MEInventoryValue is null
                                and recsdm.RwMt_MEInventory is null
                                and recsdm.RwMt_MEInventoryValue is null
                                and recsdy.RwMt_MEInventory is null
                                and recsdy.RwMt_MEInventoryValue is null then
                                null;
                                else
-- This Month Data Insert

```

```

reccp.OutputCnt := reccp.OutputCnt + 1;
p_InsCPMYRawEst(inSeq, inISIC, inYear, inMonth, recsd. Registra
tionNo, reccp.OutputCnt,
    reccl. IndustryTypeShortName, recem. EstablishmentName,
    f_editCR(recem. ContinuousRespondent),
    ' ' || recsd. CommodityCode || ' ' || substr(reccm. CommodityShortName, 1, 2
5), 'This Month',
    f_format(recsd. RWMt_MEInventory),
    f_format(recsd. RWMt_MEInventoryValue),
    null, null, null, null, null);

-- Previous Month Data Insert
reccp.OutputCnt := reccp.OutputCnt + 1;
p_InsCPMYRawEst(inSeq, inISIC, inYear, inMonth, recsd. Registra
tionNo, reccp.OutputCnt,
    reccl. IndustryTypeShortName, recem. EstablishmentName,
    f_editCR(recem. ContinuousRespondent),
    null, 'Pre Month',
    f_format(reccdm. RWMt_MEInventory),
    f_format(reccdm. RWMt_MEInventoryValue),
    null, null, null, null, null);

-- Previous Year Data Insert
reccp.OutputCnt := reccp.OutputCnt + 1;
p_InsCPMYRawEst(inSeq, inISIC, inYear, inMonth, recsd. Registra
tionNo, reccp.OutputCnt,
    reccl. IndustryTypeShortName, recem. EstablishmentName,
    f_editCR(recem. ContinuousRespondent),
    null, 'Pre Year',
    f_format(reccdy. RWMt_MEInventory),
    f_format(reccdy. RWMt_MEInventoryValue),
    null, null, null, null, null);

-- CPM Data Insert
reccp.OutputCnt := reccp.OutputCnt + 1;
p_InsCPMYRawEst(inSeq, inISIC, inYear, inMonth, recsd. Registra
tionNo, reccp.OutputCnt,
    reccl. IndustryTypeShortName, recem. EstablishmentName,
    f_editCR(recem. ContinuousRespondent),
    null, 'CPM(%)',
    f_CalCP(recsd. RWMt_MEInventory, reccdm. RWMt_MEInventory),
    f_CalCP(recsd. RWMt_MEInventoryValue, reccdm. RWMt_MEInventoryValue),
    null, null, null, null, null);

-- CPY Data Insert
reccp.OutputCnt := reccp.OutputCnt + 1;
p_InsCPMYRawEst(inSeq, inISIC, inYear, inMonth, recsd. Registra
tionNo, reccp.OutputCnt,
    reccl. IndustryTypeShortName, recem. EstablishmentName,
    f_editCR(recem. ContinuousRespondent),

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        null, 'CPY(%)',
        f_CalCP(recsd. RWMt_MEInventory, recsdy. RWMt_MEInventory),
        f_CalCP(recsd. RWMt_MEInventoryValue, recsdy. RWMt_MEInventoryValue),
        null, null, null, null, null);

        end if;

-- Item Type 6 Edit
    elseif recsd. ItemType = '6' then
-- Check Input Data
        if recsd. Capacity is null
        and recsdm. Capacity is null
        and recsdy. Capacity is null then
            null;
        else
-- This Month Data Insert
            reccp. OutputCnt := reccp. OutputCnt + 1;
            p_InsCPMYRawEst(inSeq, inISIC, inYear, inMonth, recsd. Registra
tionNo, reccp. OutputCnt,
                reccl. IndustryTypeShortName, recem. EstablishmentName,
                f_editCR(recem. ContinuousRespondent),
                ' ' || recsd. CommodityCode || ' ' || substr(recem. CommodityShortName, 1, 2
5), 'This Month',
                f_format(recsd. Capacity),
                null, null, null, null, null, null);

-- Previous Month Data Insert
            reccp. OutputCnt := reccp. OutputCnt + 1;
            p_InsCPMYRawEst(inSeq, inISIC, inYear, inMonth, recsd. Registra
tionNo, reccp. OutputCnt,
                reccl. IndustryTypeShortName, recem. EstablishmentName,
                f_editCR(recem. ContinuousRespondent),
                null, 'Pre Month',
                f_format(recsdm. Capacity),
                null, null, null, null, null, null);

-- Previous Year Data Insert
            reccp. OutputCnt := reccp. OutputCnt + 1;
            p_InsCPMYRawEst(inSeq, inISIC, inYear, inMonth, recsd. Registra
tionNo, reccp. OutputCnt,
                reccl. IndustryTypeShortName, recem. EstablishmentName,
                f_editCR(recem. ContinuousRespondent),
                null, 'Pre Year',
                f_format(recsdy. Capacity),
                null, null, null, null, null, null);

-- CPM Data Insert
            reccp. OutputCnt := reccp. OutputCnt + 1;
            p_InsCPMYRawEst(inSeq, inISIC, inYear, inMonth, recsd. Registra
tionNo, reccp. OutputCnt,
                reccl. IndustryTypeShortName, recem. EstablishmentName,
                f_editCR(recem. ContinuousRespondent),
                null, 'CPM(%)',
                f_CalCP(recsd. Capacity, recsdm. Capacity),

```

```

        null, null, null, null, null, null);

-- CPY Data Insert
        reccp.OutputCnt := reccp.OutputCnt + 1;
        p_InsCPMYRawEst(inSeq, inISIC, inYear, inMonth, recsd.Registra
tionNo, reccp.OutputCnt,
        reccl.IndustryTypeShortName, recem.EstablishmentName,
        f_editCR(recem.ContinuousRespondent),
        null, 'CPY(%)',
        f_CalCP(recsd.Capacity, recsdy.Capacity),
        null, null, null, null, null, null);
        end if;

    end if;

    <<FetchNext>>

    fetch          csrsd
        into       recsd;

end loop;

close csrsd;

end;

-----
-- Insert CPM/CPY of the Raw by ISIC Table
-----
procedure p_InsCPMYRawISIC(
    inseq                                num
ber,
    inSurveyScope                        varchar2,
    inISIC                               varchar2,
    inYear                               number,
    inMonth                              number,
    inOutputCnt                          number,
    inIndustryTypeShortName varchar2,
    inCommodityCodeWk                   varchar2,
    inDataTypeWK                         varchar2,
    inQuestionnaireWK1                  varchar2,
    inQuestionnaireWK2                  varchar2,
    inQuestionnaireWK3                  varchar2,
    inQuestionnaireWK4                  varchar2,
    inQuestionnaireWK5                  varchar2,
    inQuestionnaireWK6                  varchar2,
    inQuestionnaireWK7                  varchar2) is
begin
    -- DBMS_OUTPUT.PUT_LINE(inISIC || ' ' || inOutputCnt);

    insert
        into .CPMYRawISIC(
            seq,
            SurveyScope,
            ISIC,
            Year,
            Month,
            OutputCnt,
            IndustryTypeShortName,
            CommodityCodeWk,
            DataTypeWK,
            QuestionnaireWK1,
            QuestionnaireWK2,
            QuestionnaireWK3,
            QuestionnaireWK4,
            QuestionnaireWK5,
            QuestionnaireWK6,
            QuestionnaireWK7)
        values(
            inseq,
            inSurveyScope,

```

```

        inISIC,
        inYear,
        inMonth,
        inOutputCnt,
        inIndustryTypeShortName,
        inCommodityCodeWk,
        inDataTypeWk,
        inQuestionnaireWK1,
        inQuestionnaireWK2,
        inQuestionnaireWK3,
        inQuestionnaireWK4,
        inQuestionnaireWK5,
        inQuestionnaireWK6,
        inQuestionnaireWK7);
end;

-----
-- CPM/CPY of the Raw Data Making by ISIC
-----

procedure p_CPMYRawISIC (
    inSeq
        in number,
        inAggregationRange
        inISIC
        in varchar2,
        n varchar2,
        inYear
        n number,
        inMonth
        n number,
        inSelContinuousRespondent
        in varchar2,
        inSurveyScope
        in varchar2) is

    -- Record Area Define
    reccm CommodityMaster%rowtype;
    recsd SurveyData%rowtype;
    recsdy SurveyData%rowtype;
    recsdm SurveyData%rowtype;
    reccp CPMYRawISIC%rowtype;
    reccl ClassMaster%rowtype;

    -- Work Area
    nPMY number;
    nPMM number;

    nPYY number;
    nPYM number;

    sOldISIC Varchar2(8) := null;
    sOldItemType Varchar2(1) := null;

    sISIC2d Varchar2(2);
    sISIC4d Varchar2(4);

    sContinuousRespondent varchar2(1);

    -- Establishment Master Table Cursor
    Cursor csrsm is
        select *
        from CommodityMaster
        where ItemType in('1','2','3','4','6')
        order by ISIC, ItemType, CommodityCode;

begin
    -- ISIC Edit
    sISIC2d := substr(inISIC, 1, 2);
    sISIC4d := substr(inISIC, 1, 4);

    -- PM and PY Calculation
    if inMonth = 1 then
        nPMY := inYear - 1;
        nPMM := 12;
    else
        nPMY := inYear;
        nPMM := inMonth - 1;
    end if;

    nPYY := inYear - 1;

```

```

nPYM      := inMonth;

-- Edit Condition for ContinuousRespondent
if      inSelContinuousRespondent = '0' then
    sContinuousRespondent := '0';
elsif  inSelContinuousRespondent = '1' then
    sContinuousRespondent := '1';
elsif  inSelContinuousRespondent = '2' then
    sContinuousRespondent := '%';
end if;

-- Select Class Master
begin
    select  IndustryTypeShortName
    into    reccl.IndustryTypeShortName
    from    ClassMaster
    where   ISIC = inISIC;

    exception
        when no_data_found then
            reccl.IndustryTypeShortName := null;
end;

-- Survey Data Cursor Open Fetch
open      csrcl;
fetch     csrcl
into      reccm;

-- Survey Data Cursor Fetch Looping
while csrcl%found loop

-- Check Aggregation Range
if      (inAggregationRange = '1')
or      (inAggregationRange = '2' and substr(reccm.ISIC, 1, 2) = sISIC2d)
or      (inAggregationRange = '3' and substr(reccm.ISIC, 1, 4) = sISIC4d)
or      (inAggregationRange = '4' and substr(reccm.ISIC, 1, 6) = inISIC) then

-- Set Output Counter
if      reccm.ISIC = sOldISIC then
    null;
else
    reccp.OutputCnt := 0;
    sOldISIC := reccm.ISIC;
    sOldItemType := null;
end if;

-- Item Type Check
if      reccm.ItemType = sOldItemType then
    null;
else
    reccp.OutputCnt := reccp.OutputCnt + 1;
    if      reccm.ItemType = '1' then
        p_InsCPMYRawISIC(inSeq, inSurveyScope, reccm.ISIC, in
Year, inMonth, reccp.OutputCnt,

            reccl.IndustryTypeShortName,
            '1.Finished Goods(Quantity)',
            null, 'BM_Inventory', 'Production', 'Receipt',
            'Domestic', 'Export', 'Others', 'ME_Inventory');
        elsif reccm.ItemType = '2' then
            p_InsCPMYRawISIC(inSeq, inSurveyScope, reccm.ISIC, in
Year, inMonth, reccp.OutputCnt,

            reccl.IndustryTypeShortName,
            '2.Finished Goods(Values)', null, 'Shipment', 'Sales Plan',
            null, null, null, null, null);
            elsif reccm.ItemType = '3' then
                p_InsCPMYRawISIC(inSeq, inSurveyScope, reccm.ISIC, in
Year, inMonth, reccp.OutputCnt,

            reccl.IndustryTypeShortName,

```



```

' 3. Labor',
null, 'Labor Total', 'Labor SC',
null, null, null, null, null);
      elsif reccm.ItemType = '4' then
        p_InsCPMYRawISIC(inSeq, inSurveyScope, reccm.ISIC, in
Year, inMonth, reccp.OutputCnt,
      reccl.IndustryTypeShortName,
' 4. Row Materials',
null, 'RwMt ME_Inventory', 'RwMt ME_Inventory VI',
null, null, null, null, null);
      elsif reccm.ItemType = '6' then
        p_InsCPMYRawISIC(inSeq, inSurveyScope, reccm.ISIC, in
Year, inMonth, reccp.OutputCnt,
      reccl.IndustryTypeShortName,
' 6. Capacity',
null, 'Capacity', null, null, null, null, null, null);
      end if;

      sOldItemType := reccm.ItemType;
    end if;

-- Get Current Month Data
begin
  select sum(SurveyData.BM_Inventory),
         sum(SurveyData.ProductionQTY),
         sum(SurveyData.Receipts),
         sum(SurveyData.DomesticSales),
         sum(SurveyData.Export),
         sum(SurveyData.OtherSales),
         sum(SurveyData.ME_Inventory),
         sum(SurveyData.Capacity),
         sum(SurveyData.ShipmentValue),
         sum(SurveyData.SalesPlan),
         sum(SurveyData.LaborTotal),
         sum(SurveyData.Labor_SC),
         sum(SurveyData.RwMt_MEInventory),
         sum(SurveyData.RwMt_MEInventoryValue)
    into   recsd.BM_Inventory,
          recsd.ProductionQTY,
          recsd.Receipts,
          recsd.DomesticSales,
          recsd.Export,
          recsd.OtherSales,
          recsd.ME_Inventory,
          recsd.Capacity,
          recsd.ShipmentValue,
          recsd.SalesPlan,
          recsd.LaborTotal,
          recsd.Labor_SC,
          recsd.RwMt_MEInventory,
          recsd.RwMt_MEInventoryValue
  from   SurveyData, EstablishmentMaster
 where  SurveyData.ISIC
= EstablishmentMaster.ISIC
and     SurveyData.RegistrationNo = Establ
ishmentMaster.RegistrationNo
and     SurveyData.ISIC
= reccm.ISIC
and     SurveyData.ItemType
= reccm.ItemType
and     SurveyData.CommodityCode = r
eccm.CommodityCode
and     Year
= inYear
and     Month
= inMonth
and     EstablishmentMaster.SurveyScope <= inSurve

```

```

yScope
like sContinuousRespondent;

                                and      EstablishmentMaster.ContinuousRespondent = 1

exception
    when no_data_found then
        recsd.BM_Inventory          := null;
        recsd.ProductionQTY        := null;
        recsd.Receipts              := null;
null;
        recsd.DomesticSales        := null;
        recsd.Export                := null;
        recsd.OtherSales            := null;
        recsd.ME_Inventory          := null;
        recsd.Capacity              := null;
null;
        recsd.ShipmentValue        := null;
        recsd.SalesPlan             := null;
        recsd.LaborTotal            := null;
        recsd.Labor_SC              := null;
null;
        recsd.RwMt_MEInventory      := null;
        recsd.RwMt_MEInventoryValue := null;
    end;

-- Get CPM Data
begin
    select sum(SurveyData.BM_Inventory),
           sum(SurveyData.ProductionQTY),
           sum(SurveyData.Receipts),
           sum(SurveyData.DomesticSales),
           sum(SurveyData.Export),
           sum(SurveyData.OtherSales),
           sum(SurveyData.ME_Inventory),
           sum(SurveyData.Capacity),
           sum(SurveyData.ShipmentValue),
           sum(SurveyData.SalesPlan),
           sum(SurveyData.LaborTotal),
           sum(SurveyData.Labor_SC),
           sum(SurveyData.RwMt_MEInventory),
           sum(SurveyData.RwMt_MEInventoryValue)
    into   recsdm.BM_Inventory,
           recsdm.ProductionQTY,
           recsdm.Receipts,
           recsdm.DomesticSales,
           recsdm.Export,
           recsdm.OtherSales,
           recsdm.ME_Inventory,
           recsdm.Capacity,
           recsdm.ShipmentValue,
           recsdm.SalesPlan,
           recsdm.LaborTotal,
           recsdm.Labor_SC,
           recsdm.RwMt_MEInventory,
           recsdm.RwMt_MEInventoryValue
    from   SurveyData, EstablishmentMaster
    where  SurveyData.ISIC
           = EstablishmentMaster.ISIC
           and SurveyData.RegistrationNo = EstablishmentMaster.RegistrationNo
           and SurveyData.ISIC
           = recdm.ISIC
           and SurveyData.ItemType
           = recdm.ItemType
           and SurveyData.CommodityCode
           = recdm.CommodityCode
           and Year
           = nPMY
           and Month
           = nPMM
           and EstablishmentMaster.SurveyScope <= inSurveyScope
           and EstablishmentMaster.ContinuousRespondent = 1
           like sContinuousRespondent;

exception

```

```

                                when no_data_found then
recsdm. BM_Inventory                := null;
recsdm. ProductionQTY              := null;
recsdm. Receipts                   := null;
recsdm. DomesticSales              := null;
recsdm. Export                     := null;

null;

recsdm. OtherSales                  := null;
recsdm. ME_Inventory               := null;
recsdm. Capacity                   := null;
recsdm. ShipmentValue              := null;
recsdm. SalesPlan                  := null;
recsdm. LaborTotal                 := null;
recsdm. Labor_SC                  := null;
recsdm. RWMt_MEInventory           := null;
recsdm. RWMt_MEInventoryValue      := null;
                                end;

-- Get CPY Data
begin
    select  sum(SurveyData. BM_Inventory),
            sum(SurveyData. ProductionQTY),
            sum(SurveyData. Receipts),
            sum(SurveyData. DomesticSales),
            sum(SurveyData. Export),
            sum(SurveyData. OtherSales),
            sum(SurveyData. ME_Inventory),
            sum(SurveyData. Capacity),
            sum(SurveyData. ShipmentValue),
            sum(SurveyData. SalesPlan),
            sum(SurveyData. LaborTotal),
            sum(SurveyData. Labor_SC),
            sum(SurveyData. RWMt_MEInventory),
            sum(SurveyData. RWMt_MEInventoryValue)
    into    recsdy. BM_Inventory,
            recsdy. ProductionQTY,
            recsdy. Receipts,
            recsdy. DomesticSales,
            recsdy. Export,
            recsdy. OtherSales,
            recsdy. ME_Inventory,
            recsdy. Capacity,
            recsdy. ShipmentValue,
            recsdy. SalesPlan,
            recsdy. LaborTotal,
            recsdy. Labor_SC,
            recsdy. RWMt_MEInventory,
            recsdy. RWMt_MEInventoryValue
    from    SurveyData, EstablishmentMaster
    where   SurveyData. ISIC
            = EstablishmentMaster. ISIC
            and SurveyData. RegistrationNo = Establ
ishmentMaster. RegistrationNo
            and SurveyData. ISIC
            = reccm. ISIC
            and SurveyData. ItemType
            = reccm. ItemType
            and SurveyData. CommodityCode
            = r
eccm. CommodityCode
            and Year
            = nPYY
            and Month
            = nPYM
            and EstablishmentMaster. SurveyScope <= inSurve
yScope
            and EstablishmentMaster. ContinuousRespondent I
ike sContinuousRespondent;

    exception
        when no_data_found then
recsdy. BM_Inventory                := null;
recsdy. ProductionQTY              := null;
recsdy. Receipts                   := null;
recsdy. DomesticSales              := null;
recsdy. Export                     := null;

null;

recsdy. OtherSales                  := null;

```

```

recsd. ME_Inventory                := null;
recsd. Capacity                    := null;
recsd. ShipmentValue               := null;
recsd. SalesPlan                   := null;
recsd. LaborTotal                  := null;
recsd. Labor_SC                    := null;
recsd. RWMt_MEInventory            := null;
recsd. RWMt_MEInventoryValue       := null;
end;

-- Item Type 1 Edit
-- Check Input Data
if reccm.ItemType = '1' then
    if recsd.BM_Inventory is null
    and recsd.ProductionQty is null
    and recsd.Receipts is null
    and recsd.DomesticSales is null
    and recsd.Export is null
    null
    and recsd.OtherSales is null
    and recsd.ME_Inventory is null
    and recsdm.BM_Inventory is null
    and recsdm.ProductionQty is null
    and recsdm.Receipts is null
    and recsdm.DomesticSales is null
    and recsdm.Export is null
    null
    and recsdm.OtherSales is null
    and recsdm.ME_Inventory is null
    and recsd.BM_Inventory is null
    and recsd.ProductionQty is null
    and recsd.Receipts is null
    and recsd.DomesticSales is null
    and recsd.Export is null
    null
    and recsd.OtherSales is null
    and recsd.ME_Inventory is null then
        else
            reccp.OutputCnt := reccp.OutputCnt + 1;
            p_InsCPMYRawISIC(inSeq, inSurveyScope, reccm.ISIC, in
Year, inMonth, reccp.OutputCnt,
                reccl.IndustryTypeShortName,
                ' ' || reccm.CommodityCode || ' ' || substr(reccm.CommodityShortNa
me, 1, 25), 'This Month',
                f_format(recsd.BM_Inventory), f_format(recsd.ProductionQty),
                f_format(recsd.Receipts), f_format(recsd.DomesticSales),
                f_format(recsd.Export), f_format(recsd.OtherSales),
                f_format(recsd.ME_Inventory));

-- Previous Month Data Insert
            reccp.OutputCnt := reccp.OutputCnt + 1;
            p_InsCPMYRawISIC(inSeq, inSurveyScope, reccm.ISIC, in
Year, inMonth, reccp.OutputCnt,
                reccl.IndustryTypeShortName,
                null, 'Pre Month',
                f_format(recsdm.BM_Inventory), f_format(recsdm.ProductionQty),
                f_format(recsdm.Receipts), f_format(recsdm.DomesticSales),
                f_format(recsdm.Export), f_format(recsdm.OtherSales),
                f_format(recsdm.ME_Inventory));

-- Previous Year Data Insert
            reccp.OutputCnt := reccp.OutputCnt + 1;
            p_InsCPMYRawISIC(inSeq, inSurveyScope, reccm.ISIC, in

```

```

Year, inMonth, reccp. OutputCnt,
    reccl. IndustryTypeShortName,
    null, 'Pre Year',
    f_format(recsd. BM_Inventory), f_format(recsd. ProductionQty),
    f_format(recsd. Receipts), f_format(recsd. DomesticSales),
    f_format(recsd. Export), f_format(recsd. OtherSales),
    f_format(recsd. ME_Inventory));

-- CPM Data Insert
    reccp. OutputCnt := reccp. OutputCnt + 1;
    p_InsCPMYRawISIC(inSeq, inSurveyScope, reccm. ISIC, in
Year, inMonth, reccp. OutputCnt,
    reccl. IndustryTypeShortName,
    null, 'CPM(%)',
    f_CalCP(recsd. BM_Inventory, recsdm. BM_Inventory),
    f_CalCP(recsd. ProductionQty, recsdm. ProductionQty),
    f_CalCP(recsd. Receipts, recsdm. Receipts),
    f_CalCP(recsd. DomesticSales, recsdm. DomesticSales),
    f_CalCP(recsd. Export, recsdm. Export),
    f_CalCP(recsd. OtherSales, recsdm. OtherSales),
    f_CalCP(recsd. ME_Inventory, recsdm. ME_Inventory));

-- CPY Data Insert
    reccp. OutputCnt := reccp. OutputCnt + 1;
    p_InsCPMYRawISIC(inSeq, inSurveyScope, reccm. ISIC, in
Year, inMonth, reccp. OutputCnt,
    reccl. IndustryTypeShortName,
    null, 'CPY(%)',
    f_CalCP(recsd. BM_Inventory, recsd. BM_Inventory),
    f_CalCP(recsd. ProductionQty, recsd. ProductionQty),
    f_CalCP(recsd. Receipts, recsd. Receipts),
    f_CalCP(recsd. DomesticSales, recsd. DomesticSales),
    f_CalCP(recsd. Export, recsd. Export),
    f_CalCP(recsd. OtherSales, recsd. OtherSales),
    f_CalCP(recsd. ME_Inventory, recsd. ME_Inventory));
    end if;

-- Item Type 2 Edit
-- Check Input Data
    elsif reccm. ItemType = '2' then
        if recsd. ShipmentValue is null
        and recsd. SalesPlan is null
        and recsdm. ShipmentValue is null
        and recsdm. SalesPlan is null
        and recsd. ShipmentValue is null
        and recsd. SalesPlan is null then
            null;
        else
-- This Month Data Insert
            reccp. OutputCnt := reccp. OutputCnt + 1;
            p_InsCPMYRawISIC(inSeq, inSurveyScope, reccm. ISIC, in
Year, inMonth, reccp. OutputCnt,

```

```

        reccl. IndustryTypeShortName,
        ' ' || reccm. CommodityCode || ' ' || substr(reccm. CommodityShortNa
me, 1, 25), 'This Month',
        f_format(recsd. ShipmentValue), f_format(recsd. SalesPlan),
        null, null, null, null, null);

-- Previous Month Data Insert
        reccp. OutputCnt := reccp. OutputCnt + 1;
        p_InsCPMYRawISIC(inSeq, inSurveyScope, reccm. ISIC, in
Year, inMonth, reccp. OutputCnt,
        reccl. IndustryTypeShortName,
        null, 'Pre Month',
        f_format(reccdm. ShipmentValue), f_format(reccdm. SalesPlan),
        null, null, null, null, null);

-- Previous Year Data Insert
        reccp. OutputCnt := reccp. OutputCnt + 1;
        p_InsCPMYRawISIC(inSeq, inSurveyScope, reccm. ISIC, in
Year, inMonth, reccp. OutputCnt,
        reccl. IndustryTypeShortName,
        null, 'Pre Year',
        f_format(reccsy. ShipmentValue), f_format(reccsy. SalesPlan),
        null, null, null, null, null);

-- CPM Data Insert
        reccp. OutputCnt := reccp. OutputCnt + 1;
        p_InsCPMYRawISIC(inSeq, inSurveyScope, reccm. ISIC, in
Year, inMonth, reccp. OutputCnt,
        reccl. IndustryTypeShortName,
        null, 'CPM(%)',
        f_CalCP(recsd. ShipmentValue, reccdm. ShipmentValue),
        f_CalCP(recsd. SalesPlan, reccdm. SalesPlan),
        null, null, null, null, null);

-- CPY Data Insert
        reccp. OutputCnt := reccp. OutputCnt + 1;
        p_InsCPMYRawISIC(inSeq, inSurveyScope, reccm. ISIC, in
Year, inMonth, reccp. OutputCnt,
        reccl. IndustryTypeShortName,
        null, 'CPY(%)',
        f_CalCP(recsd. ShipmentValue, reccsy. ShipmentValue),
        f_CalCP(recsd. SalesPlan, reccsy. SalesPlan),
        null, null, null, null, null);
        end if;

-- Item Type 3 Edit
-- Check Input Data
        elsif reccm. ItemType = '3' then
            if recsd. LaborTotal is null
            and recsd. Labor_SC is null
            and reccdm. LaborTotal is null
            and reccdm. Labor_SC is null
            and reccsy. LaborTotal is null
            and reccsy. Labor_SC is null then
                null;

```

```

else
-- This Month Data Insert
reccp.OutputCnt := reccp.OutputCnt + 1;
p_InsCPMYRawISIC(inSeq, inSurveyScope, reccm.ISIC, in
Year, inMonth, reccp.OutputCnt,
reccI.IndustryTypeShortName,
' ' || reccm.CommodityCode || ' ' || substr(reccm.CommodityShortNa
me, 1, 25), 'This Month',
f_format(reccsd.LaborTotal), f_format(reccsd.Labor_SC),
null, null, null, null, null);

-- Previous Month Data Insert
reccp.OutputCnt := reccp.OutputCnt + 1;
p_InsCPMYRawISIC(inSeq, inSurveyScope, reccm.ISIC, in
Year, inMonth, reccp.OutputCnt,
reccI.IndustryTypeShortName,
null, 'Pre Month',
f_format(reccsdm.LaborTotal), f_format(reccsdm.Labor_SC),
null, null, null, null, null);

-- Previous Year Data Insert
reccp.OutputCnt := reccp.OutputCnt + 1;
p_InsCPMYRawISIC(inSeq, inSurveyScope, reccm.ISIC, in
Year, inMonth, reccp.OutputCnt,
reccI.IndustryTypeShortName,
null, 'Pre Year',
f_format(reccsdy.LaborTotal), f_format(reccsdy.Labor_SC),
null, null, null, null, null);

-- CPM Data Insert
reccp.OutputCnt := reccp.OutputCnt + 1;
p_InsCPMYRawISIC(inSeq, inSurveyScope, reccm.ISIC, in
Year, inMonth, reccp.OutputCnt,
reccI.IndustryTypeShortName,
null, 'CPM(%)',
f_CalCP(reccsd.LaborTotal, reccsdm.LaborTotal),
f_CalCP(reccsd.Labor_SC, reccsdm.Labor_SC),
null, null, null, null, null);

-- CPY Data Insert
reccp.OutputCnt := reccp.OutputCnt + 1;
p_InsCPMYRawISIC(inSeq, inSurveyScope, reccm.ISIC, in
Year, inMonth, reccp.OutputCnt,
reccI.IndustryTypeShortName,
null, 'CPY(%)',
f_CalCP(reccsd.LaborTotal, reccsdy.LaborTotal),
f_CalCP(reccsd.Labor_SC, reccsdy.Labor_SC),
null, null, null, null, null);

end if;

-- Item Type 4 Edit
elseif reccm.ItemType = '4' then
if reccsd.RwMt_MEInventory is
null

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                                and      recsd. RWMt_MEInventoryValue      is null
                                and      recsdm. RWMt_MEInventory          is null
null
                                and      recsdm. RWMt_MEInventoryValue    is null
                                and      recsdy. RWMt_MEInventory          is null
null
                                and      recsdy. RWMt_MEInventoryValue    is null then
                                null;
                                else
-- This Month Data Insert
                                reccp. OutputCnt := reccp. OutputCnt + 1;
                                p_InsCPMYRawISIC(inSeq, inSurveyScope, reccm. ISIC, in
Year, inMonth, reccp. OutputCnt,
                                reccl. IndustryTypeShortName,
                                ' ' || reccm. CommodityCode || ' ' || substr(reccm. CommodityShortNa
me, 1, 25), 'This Month',
                                f_format(recsd. RWMt_MEInventory), f_format(recsd. RWMt_MEInventoryVa
lue),
                                null, null, null, null, null);
-- Previous Month Data Insert
                                reccp. OutputCnt := reccp. OutputCnt + 1;
                                p_InsCPMYRawISIC(inSeq, inSurveyScope, reccm. ISIC, in
Year, inMonth, reccp. OutputCnt,
                                reccl. IndustryTypeShortName,
                                null, 'Pre Month',
                                f_format(recsdm. RWMt_MEInventory), f_format(recsdm. RWMt_MEInventory
Value),
                                null, null, null, null, null);
-- Previous Year Data Insert
                                reccp. OutputCnt := reccp. OutputCnt + 1;
                                p_InsCPMYRawISIC(inSeq, inSurveyScope, reccm. ISIC, in
Year, inMonth, reccp. OutputCnt,
                                reccl. IndustryTypeShortName,
                                null, 'Pre Year',
                                f_format(recsdy. RWMt_MEInventory), f_format(recsdy. RWMt_MEInventory
Value),
                                null, null, null, null, null);
-- CPM Data Insert
                                reccp. OutputCnt := reccp. OutputCnt + 1;
                                p_InsCPMYRawISIC(inSeq, inSurveyScope, reccm. ISIC, in
Year, inMonth, reccp. OutputCnt,
                                reccl. IndustryTypeShortName,
                                null, 'CPM(%)',
                                f_CalCP(recsd. RWMt_MEInventory, recsdm. RWMt_MEInventory),
                                f_CalCP(recsd. RWMt_MEInventoryValue, recsdm. RWMt_MEInventoryValue),
                                null, null, null, null, null);
-- CPY Data Insert
                                reccp. OutputCnt := reccp. OutputCnt + 1;
                                p_InsCPMYRawISIC(inSeq, inSurveyScope, reccm. ISIC, in
Year, inMonth, reccp. OutputCnt,
                                reccl. IndustryTypeShortName,
                                null, 'CPY(%)',
                                f_CalCP(recsd. RWMt_MEInventory, recsdy. RWMt_MEInventory),

```



```

        f_CalCP(recsd. RWMt_MEInventoryValue, recsdy. RWMt_MEInventoryValue),
        null, null, null, null, null);
        end if;

-- Item Type 6 Edit
-- Check Input Data
        elsif reccm.ItemType = '6' then
            if recsd.Capacity is null
            and recsdm.Capacity is null
            and recsdy.Capacity is null then
                null;
            else
                reccp.OutputCnt := reccp.OutputCnt + 1;
                p_InsCPMYRawISIC(inSeq, inSurveyScope, reccm.ISIC, in
Year, inMonth, reccp.OutputCnt,
                    reccl.IndustryTypeShortName,
                    ' ' || reccm.CommodityCode || ' ' || substr(reccm.CommodityShortNa
me, 1, 25), 'This Month',
                    f_format(recsd.Capacity),
                    null, null, null, null, null, null);

-- Previous Month Data Insert
                reccp.OutputCnt := reccp.OutputCnt + 1;
                p_InsCPMYRawISIC(inSeq, inSurveyScope, reccm.ISIC, in
Year, inMonth, reccp.OutputCnt,
                    reccl.IndustryTypeShortName,
                    null, 'Pre Month',
                    f_format(recsdm.Capacity),
                    null, null, null, null, null, null);

-- Previous Year Data Insert
                reccp.OutputCnt := reccp.OutputCnt + 1;
                p_InsCPMYRawISIC(inSeq, inSurveyScope, reccm.ISIC, in
Year, inMonth, reccp.OutputCnt,
                    reccl.IndustryTypeShortName,
                    null, 'Pre Year',
                    f_format(recsdy.Capacity),
                    null, null, null, null, null, null);

-- CPM Data Insert
                reccp.OutputCnt := reccp.OutputCnt + 1;
                p_InsCPMYRawISIC(inSeq, inSurveyScope, reccm.ISIC, in
Year, inMonth, reccp.OutputCnt,
                    reccl.IndustryTypeShortName,
                    null, 'CPM(%)',
                    f_CalCP(recsd.Capacity, recsdm.Capacity),
                    null, null, null, null, null, null);

-- CPY Data Insert
                reccp.OutputCnt := reccp.OutputCnt + 1;
                p_InsCPMYRawISIC(inSeq, inSurveyScope, reccm.ISIC, in
Year, inMonth, reccp.OutputCnt,
                    reccl.IndustryTypeShortName,
                    null, 'CPY(%)',
                    f_CalCP(recsd.Capacity, recsdy.Capacity),

```

```

        null, null, null, null, null, null);
        end if;

    end if;

    fetch      into      csrcm
                    reccm;

    end loop;

    close csrcm;

end;

end UserRep;
/
show errors
/

```

```

/*
* Package Name : Weight
* Created Date : 18/NOV/99
* Updated Date : 22/FEB/00
* By K. Shibamoto@JICA SYUDY TEAM
* NOTE : Calculate integrated weight for each level.
* TEST : exec Weight.CreateWeightView;
* Make : @c:%shiba%weight
*/

CREATE OR REPLACE PACKAGE Weight IS

    PROCEDURE CreateWeightView;

END;
/
show errors

CREATE OR REPLACE PACKAGE BODY Weight IS
    /* CreateWeightView
       This procedure create weight view for
       each AggregationRange and ISIC .
    */
    PROCEDURE CreateWeightView
    IS
    BEGIN
        DELETE FROM WeightAggregation ;
        COMMIT WORK;

        /* Weight for Aggregation Range 5 == PR1, SP2, IV3, IR4, LP6 == */
        INSERT INTO WeightAggregation
        SELECT '5'
            , -- AggregationRange,
            W. ISIC,
            W. ItemType,
            W. CommodityCode,
            W. SurveyScope,
            W. Version,
            nvl(WeightPR, 0) * decode(IndexScopePR1, '1', 1, 0),
            nvl(WeightSP, 0) * decode(IndexScopeSP2, '1', 1, 0),
            nvl(WeightIV, 0) * decode(IndexScopeIV3, '1', 1, 0),
            nvl(WeightIR, 0) * decode(IndexScopeIR4, '1', 1, 0),
            0,
            nvl(WeightLP, 0) * decode(IndexScopeLP6, '1', 1, 0),
            0 /* Replace here appropriate data */
            , -- WeightPR1
            , -- WeightSP2
            , -- WeightIV3
            , -- WeightIR4
            , -- WeightCU5
            , -- WeightLP6
            0 /* Replace here appropriate data */
            , -- WeightLI7
            , -- WeightRI8
            W. ISIC
            -- IntegratedKey
        FROM WeightMaster W, CommodityMaster C
        WHERE W. ISIC = C. ISIC
          AND W. ItemType = '1' -- Caution!!!
          AND W. ItemType = C. ItemType
          AND W. CommodityCode = C. CommodityCode
          AND W. Version = '1';

        COMMIT;

        /* Weight for Aggregation Range 5 == CU5 == */
        INSERT INTO WeightAggregation
        SELECT '5'
            , -- AggregationRange,
            C6. ISIC,
            C6. ItemType,
            C6. CommodityCode,
            W. SurveyScope,
            W. Version,
            0,
            0,
            0,
            0,
            0,
            SUM(nvl(W. WeightPR, 0) * decode(C6. IndexScopeCU5, '1', 1, 0))
            , -- WeightPR1
            , -- WeightSP2
            , -- WeightIV3
            , -- WeightIR4
            , -- WeightCU5
            0,
            0,
            0,
            C6. ISIC
            -- IntegratedKey
        FROM WeightMaster W, CommodityMaster C1, CommodityMaster C6
        WHERE C6. ItemType = '6'
          AND C6. ISIC = C1. ISIC
          AND C1. ItemType = '1'
          AND C1. CapacityCode = C6. CommodityCode
    
```

```

AND W. ISIC = C1. ISIC
AND W. ItemType = C1. ItemType
AND W. CommodityCode = C1. CommodityCode
AND W. Version = '1'
Group By C6. ISIC, C6. ItemType , C6. CommodityCode, W. SurveyScope, W. Version ;

```

```

COMMIT;

```

```

/* Weight for Aggregation Range 4 */
INSERT INTO WeightAggregation
SELECT '4' ,-- AggregationRange,
       IntegratedKey ,-- ISIC,
       'X' ,-- ItemType,
       'XXX' ,-- CommodityCode,
       SurveyScope ,-- SurveyScope
       Version ,-- Version
       SUM(WeightPR1) ,-- WeightPR1
       SUM(WeightSP2) ,-- WeightSP2
       SUM(WeightIV3) ,-- WeightIV3
       SUM(WeightIR4) ,-- WeightIR4
       SUM(WeightCU5) ,-- WeightCU5
       SUM(WeightLP6) ,-- WeightLP6
       SUM(WeightLI7) ,-- WeightLI7
       SUM(WeightRI8) ,-- WeightRI8
       SUBSTR(IntegratedKey,1,4)||'XX' -- IntegratedKey
FROM WeightAggregation
WHERE AggregationRange = '5'
GROUP BY IntegratedKey, SurveyScope, Version ;
COMMIT;

```

```

/* Weight for Aggregation Range 3 */
INSERT INTO WeightAggregation
SELECT '3' ,-- AggregationRange,
       IntegratedKey ,-- ISIC,
       'X' ,-- ItemType,
       'XXX' ,-- CommodityCode,
       SurveyScope ,-- SurveyScope
       Version ,-- Version
       SUM(WeightPR1) ,-- WeightPR1
       SUM(WeightSP2) ,-- WeightSP2
       SUM(WeightIV3) ,-- WeightIV3
       SUM(WeightIR4) ,-- WeightIR4
       SUM(WeightCU5) ,-- WeightCU5
       SUM(WeightLP6) ,-- WeightLP6
       SUM(WeightLI7) ,-- WeightLI7
       SUM(WeightRI8) ,-- WeightRI8
       SUBSTR(IntegratedKey,1,2)||'XXXX' -- IntegratedKey
FROM WeightAggregation
WHERE AggregationRange = '4'
GROUP BY IntegratedKey, SurveyScope, Version;
COMMIT;

```

```

/* Weight for Aggregation Range 2 */
INSERT INTO WeightAggregation
SELECT '2' ,-- AggregationRange,
       IntegratedKey ,-- ISIC,
       'X' ,-- ItemType,
       'XXX' ,-- CommodityCode,
       SurveyScope ,-- SurveyScope
       Version ,-- Version
       SUM(WeightPR1) ,-- WeightPR1
       SUM(WeightSP2) ,-- WeightSP2
       SUM(WeightIV3) ,-- WeightIV3
       SUM(WeightIR4) ,-- WeightIR4
       SUM(WeightCU5) ,-- WeightCU5
       SUM(WeightLP6) ,-- WeightLP6
       SUM(WeightLI7) ,-- WeightLI7
       SUM(WeightRI8) ,-- WeightRI8
       'XXXXXX' -- IntegratedKey
FROM WeightAggregation
WHERE AggregationRange = '3'
GROUP BY IntegratedKey, SurveyScope, Version;
COMMIT;

```

```

/* Weight for Aggregation Range 1 */
INSERT INTO WeightAggregation
SELECT '1' ,-- AggregationRange,

```

```

IntegratedKey ,-- ISIC,
'X' ,-- ItemType,
'XXX' ,-- CommodityCode,
SurveyScope ,-- SurveyScope
Version ,-- Version
SUM(WeightPR1) ,-- WeightPR1
SUM(WeightSP2) ,-- WeightSP2
SUM(WeightIV3) ,-- WeightIV3
SUM(WeightIR4) ,-- WeightIR4
SUM(WeightCU5) ,-- WeightCU5
SUM(WeightLP6) ,-- WeightLP6
SUM(WeightLI7) ,-- WeightLI7
SUM(WeightRI8) ,-- WeightRI8
NULL ,-- IntegratedKey
FROM WeightAggregation
WHERE AggregationRange = '2'
GROUP BY IntegratedKey, SurveyScope, Version;
COMMIT;

EXCEPTION
    WHEN OTHERS THEN
        ROLLBACK;
END;

END;
/
show errors

```

```

=====
-- Package Name : Yearly Proc
-- Package ID   : YearProc
-- Create Date  : 25/Feb/2000
-- Replace Date : xx/xx/xxxx
-- Author       : Nakamura
--
-- File        : @c:\jica\YearProc;
-- Test        : BEGIN YearProc.p_AnnualCal(1999); Commit;
END;
-- test       : begin YearProc.p_BatchCtlUpd(1999, 1); comm
it; end;
=====

```

create or replace package YearProc is

```

procedure p_AnnualCal (
    inYear                in    number);

```

```

procedure p_BatchCtlUpd (
    inYear                in    Number,
    inMonth               in    Number);

```

end YearProc;

/

show errors

/

create or replace package body YearProc is

-- Annual Indices Calculation

```

procedure p_AnnualCal (
    inYear                in    number) is

```

begin

-- All Annual Indices File Delete

```

    delete
        from AnnualIndices
        where Year = inYear;

```

-- Insert Annual Indices

```

    Insert
        into AnnualIndices(

```

```

            AGGREGATIONRANGE,
            ISIC,
            ITEMYPE,
            INDEXCOMMODITYCODE,
            YEAR,
            SURVEYSCOPE,
            INDEXPR1,
            INDEXSP2,
            INDEXIV3,
            INDEXIR4,
            INDEXCU5,
            INDEXLP6,
            INDEXL17,
            INDEXR18,
            RECDATE)

```

```

        select AGGREGATIONRANGE,

```

```

            ISIC,
            ITEMYPE,
            INDEXCOMMODITYCODE,
            inYear,
            SURVEYSCOPE,
            avg(INDEXPR1),
            avg(INDEXSP2),
            avg(INDEXIV3),
            avg(INDEXIR4),
            avg(INDEXCU5),
            avg(INDEXLP6),
            avg(INDEXL17),
            avg(INDEXR18),
            sysdate

```

```

        from indices
        where Year = inYear
        and Pre_Rev_Mark = '2'
        group by AggregationRange, ISIC, ItemType, IndexCommodityCode, SurveyS

```

```

cope;
end;

-----
-- Batch Control File Update
-----
procedure p_BatchCtlUpd (
    inYear          in      Number,
    inMonth         in      Number) is
Begin
    update BatchControl
    set      YearlyStatus = '0',
            YearlyDate   = sysdate
    where   Year = inYear
    and     Month = inMonth;

end;

end YearProc;
/
show errors
/

```

Excel Macro Module

Code	Name	YEAR	MONTH	INDEXPR1	INDEXSP2	INDEXIV3	INDEXIR4	INDEXCU5	INDEXLP6	INDEXLI7	INDEXRI8
15	Food&Bev	1999	2	100.9667	113.3893456	101.0299	90.72503	102.1822	107.3845	0	0
15	Food&Bev	1999	3	135.7276	142.9845514	121.468	81.39177	134.1613	122.3704	0	0
15	Food&Bev	1999	4	121.9903	136.356219	128.9539	92.01177	117.1153	126.487	0	0
15	Food&Bev	1999	5	117.8782	112.3317889	168.6285	142.3927	120.49	115.5639	0	0
15	Food&Bev	1999	6	110.2448	117.5258258	180.9476	149.7605	113.0372	103.0992	0	0
15	Food&Bev	1999	7	101.4882	116.1695135	170.5791	144.1565	106.6476	86.67588	0	0
15	Food&Bev	1999	8	103.2028	120.3268425	155.7912	126.9087	108.0978	84.42898	0	0
15	Food&Bev	1999	9	108.6906	128.1171684	169.59	128.062	119.3772	89.07267	0	0
15	Food&Bev	1999	10	104.2039	131.8370986	147.5084	108.8869	115.8308	93.14061	0	0
15	Food&Bev	1999	11	124.5578	147.5936105	134.9618	90.30466	133.4566	105.3496	0	0
15	Food&Bev	1999	12	122.3302	133.5188	145.77	110.6823	122.1513	109.2766	0	0
15	Food&Bev	2000	1	106.4024	120.6365973	157.5407	129.4458	108.1604	93.60368	0	0
17	Textile	1999	2	100.3783	112.8155847	92.98155	85.90725	96.90853	102.5326	0	0
17	Textile	1999	3	115.0961	130.5720148	87.92558	65.82741	105.6536	111.2238	0	0
17	Textile	1999	4	110.3612	101.3145371	67.64567	59.68298	96.56969	96.70571	0	0
17	Textile	1999	5	115.4747	142.3963029	60.14205	48.05489	102.2675	104.4049	0	0
17	Textile	1999	6	124.1412	137.427165	65.93492	48.20764	105.4673	112.8671	0	0
17	Textile	1999	7	124.8609	132.0540879	80.41822	59.81318	107.1159	116.0119	0	0
17	Textile	1999	8	120.2224	131.6778498	76.84322	72.32119	102.0767	111.6573	0	0
17	Textile	1999	9	128.0765	153.8496691	77.79278	46.40889	106.6944	119.0662	0	0
17	Textile	1999	10	125.6209	152.1924867	74.36313	51.33424	102.4939	115.1381	0	0
17	Textile	1999	11	130.8404	144.7043068	61.16484	62.0048	105.2911	121.1509	0	0
17	Textile	1999	12	120.6615	129.3160293	74.24566	70.98847	103.0955	112.1599	0	0
17	Textile	2000	1	122.6054	135.5627409	65.27772	53.5816	110.4557	99.75274	0	0
18	Apparel	1999	2	94.16097	92.67743315	98.92345	107.1386	94.29606	96.9601	0	0
18	Apparel	1999	3	95.03271	83.22301488	130.4894	157.0807	95.55373	91.84449	0	0
18	Apparel	1999	4	86.41644	93.72502046	119.1489	123.2773	96.78816	92.40544	0	0
18	Apparel	1999	5	104.3236	103.1396323	128.2777	125.9683	113.2302	76.86318	0	0
18	Apparel	1999	6	104.5253	99.87859129	137.0575	139.6646	107.4224	71.94024	0	0
18	Apparel	1999	7	111.371	115.2569922	145.3985	129.1481	104.4623	73.77557	0	0
18	Apparel	1999	8	108.3039	112.0117242	144.9316	135.6672	106.4904	79.16016	0	0
18	Apparel	1999	9	101.4003	105.8655634	147.54	139.4643	102.3013	67.52772	0	0
18	Apparel	1999	10	118.1297	120.9760965	157.7609	130.8712	106.1038	93.94679	0	0
18	Apparel	1999	11	118.4341	128.6152318	147.1903	114.8313	105.5691	86.38977	0	0
18	Apparel	1999	12	119.0365	133.2371458	135.9295	101.6831	116.0418	93.7825	0	0
18	Apparel	2000	1	116.8165	113.4127863	131.5289	121.074	119.1759	97.52076	0	0
23	Coke and	1999	2	95.50237	88.47006132	115.5884	134.2213	0	98.81748	0	0
23	Coke and	1999	3	107.259	106.2594316	104.6391	96.93655	0	105.9913	0	0
23	Coke and	1999	4	112.5579	96.90076382	118.7928	120.3008	0	146.6567	0	0
23	Coke and	1999	5	109.2282	91.39455266	134.595	151.6959	0	128.4716	0	0
23	Coke and	1999	6	105.4855	88.49856249	139.6602	159.7563	0	106.0439	0	0
23	Coke and	1999	7	101.4396	90.03541655	128.5967	144.088	0	106.0425	0	0
23	Coke and	1999	8	102.4648	98.12616475	112.1842	113.5618	0	105.9717	0	0
23	Coke and	1999	9	97.11693	88.83802022	119.3041	134.6896	0	98.08047	0	0
23	Coke and	1999	10	99.56008	86.2256634	128.0966	150.8993	0	104.7791	0	0
23	Coke and	1999	11	100.6498	92.07062587	136.3954	150.9458	0	98.66778	0	0
23	Coke and	1999	12	93.11092	91.91689618	109.8591	122.1935	0	90.81831	0	0
23	Coke and	2000	1	101.1471	85.17067945	115.5218	137.4358	0	109.4747	0	0
26	Other Non	1999	2	97.17187	103.5101542	97.20125	101.3753	96.08353	104.2285	0	0
26	Other Non	1999	3	109.0264	118.7376699	89.83939	76.1505	105.7624	103.0922	0	0
26	Other Non	1999	4	94.04585	89.82605234	93.57711	102.674	90.5044	104.0757	0	0
26	Other Non	1999	5	103.6384	111.3322978	82.80894	72.41179	98.5217	112.5033	0	0
26	Other Non	1999	6	113.2726	112.0837938	76.57927	68.48892	106.3602	112.0233	0	0
26	Other Non	1999	7	113.8977	120.9032954	71.4608	60.58155	103.1171	113.466	0	0
26	Other Non	1999	8	114.1928	119.1528075	77.45944	73.91183	101.7166	115.2989	0	0
26	Other Non	1999	9	111.637	112.9255444	73.70835	75.70076	101.0683	110.0048	0	0
26	Other Non	1999	10	97.73744	86.42638993	94.17058	117.8249	88.37395	102.5324	0	0
26	Other Non	1999	11	76.60887	75.64741074	97.48407	173.5545	69.7887	75.93449	0	0
26	Other Non	1999	12	86.37007	92.84505145	90.09056	119.3139	77.83425	89.2389	0	0
26	Other Non	2000	1	102.4435	104.0077261	90.63425	85.40432	97.09317	111.2948	0	0
32	Radio,TV,C	1999	2	107.1444	110.3738952	121.3187	114.7802	115.962	115.971	0	0
32	Radio,TV,C	1999	3	134.3398	135.6655611	124.4224	97.29806	143.5605	144.2414	0	0
32	Radio,TV,C	1999	4	103.4603	107.3645099	133.3698	129.7876	106.8004	112.0998	0	0
32	Radio,TV,C	1999	5	124.2926	126.0429672	164.8632	134.2469	131.1653	124.0478	0	0
32	Radio,TV,C	1999	6	139.9695	144.0769273	163.8773	115.871	146.9097	137.0947	0	0
32	Radio,TV,C	1999	7	144.7436	149.898041	192.819	131.1345	145.9741	133.0807	0	0
32	Radio,TV,C	1999	8	145.8663	150.1271055	182.5105	122.5545	152.0285	192.1215	0	0
32	Radio,TV,C	1999	9	156.4571	160.0513461	196.1374	125.2487	157.2056	140.9398	0	0
32	Radio,TV,C	1999	10	148.2172	156.109052	165.7615	107.1333	161.1076	130.0046	0	0
32	Radio,TV,C	1999	11	157.8841	158.7857222	213.9165	134.9747	169.0736	149.9476	0	0
32	Radio,TV,C	1999	12	152.1951	162.4658402	189.4529	125.4228	163.4002	144.6215	0	0
32	Radio,TV,C	2000	1	148.6998	154.0117498	234.3575	151.9423	163.7932	138.3322	0	0
34	Vehicles, e	1999	2	113.3527	106.6370215	104.1207	104.2504	99.00609	115.7219	0	0
34	Vehicles, e	1999	3	127.4625	115.6496124	114.226	100.2896	99.84788	119.6347	0	0
34	Vehicles, e	1999	4	114.7034	129.0546998	91.63817	72.03191	82.83898	149.1043	0	0
34	Vehicles, e	1999	5	138.2931	132.3736522	93.09497	69.23075	98.55972	134.6703	0	0
34	Vehicles, e	1999	6	158.7173	159.6053942	84.52004	51.444	105.8897	129.4566	0	0
34	Vehicles, e	1999	7	176.9934	177.4334334	78.95558	43.31807	115.603	140.468	0	0
34	Vehicles, e	1999	8	186.3557	169.7662344	93.83724	54.83228	128.7276	144.2606	0	0
34	Vehicles, e	1999	9	197.8965	202.0464148	81.72676	42.78323	128.4322	146.7533	0	0
34	Vehicles, e	1999	10	195.4334	180.6598328	95.4855	53.25678	127.7995	144.9711	0	0
34	Vehicles, e	1999	11	217.9862	177.8292254	139.0755	78.22651	173.0129	159.0056	0	0
34	Vehicles, e	1999	12	160.9904	212.3491599	65.94003	46.54048	173.6258	144.4421	0	0
34	Vehicles, e	2000	1	73.7679	71.33330176	36.74879	62.90854	130.5002	77.66044	0	0

List of the Time-Series Indices by Commodity /0501P1

ISIC : SurveyScope :

Commodity Group : Report Type :

Commodity																				
	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec	jan							

Graph & Table for the General Explanation /1001B

SurveyScope :

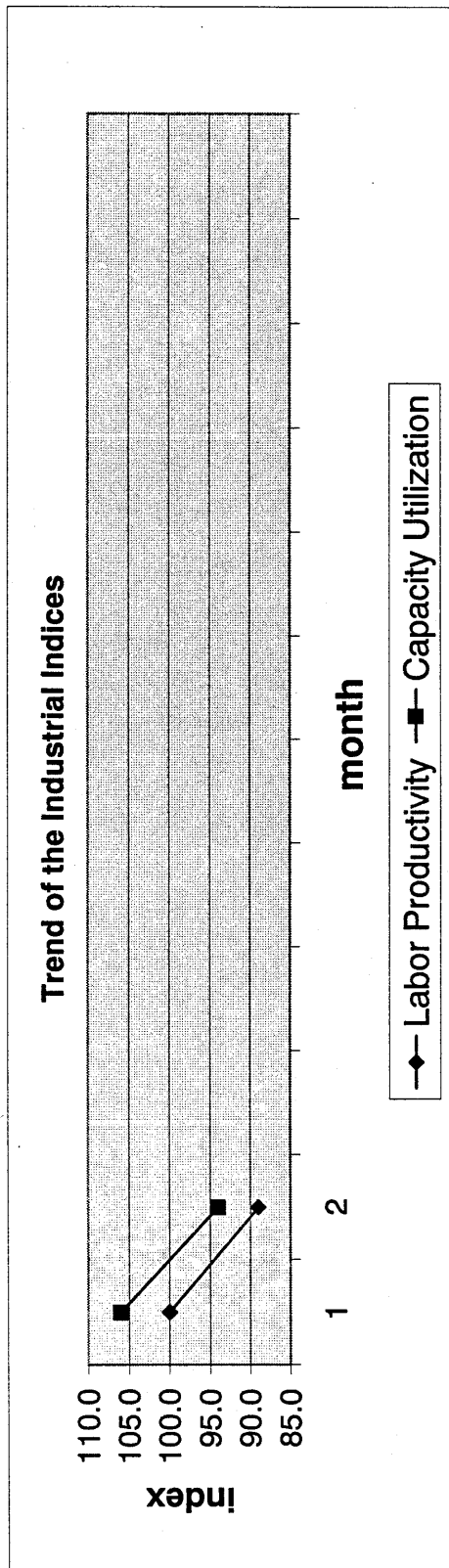
ISIC :

Commodity Group :	Report Type :
-------------------	---------------

[illegible]

Labor Productivity	100.0	89.0
--------------------	-------	------

Capacity Utilization 106.0 94.0



Indices of Industrial Production /0901

Year: **Month:**
Survey Scope: **Report Type:**

Outline of the trend

Index, 1999 = 100

Indices	index	Growth Rate(%)	
Production			
Shipment			
Inventorv			
Inventor Ratio			
Labor Productivity			
Capacity Utilization			

Detail Coment

(1) - - -

Conversion Program

```

/*
1   ISIC in SurveyHeader are exactly same as ISIC in SurveyData? -> OK
*/
select distinct isic||RegistrationNO||Year||Month from surveyheader
minus
select distinct isic||RegistrationNO||Year||Month from surveydata;

select distinct isic||RegistrationNO||Year||Month from surveydata
minus
select distinct isic||RegistrationNO||Year||Month from surveyheader;

/*
2   Number of Item 1 & 2 ->OK
*/
select count(*) from surveydata where itemtype = '1';
select count(*) from surveydata where itemtype = '2' and commoditycode != '999';
select count(*) from surveydata where itemtype = '2' and commoditycode = '999';

select /*+ all_rows*/ ISIC||'-'||YEAR||'-'||MONTH||'-'||RegistrationNo||'-'||commoditycode
from surveydata
where itemtype = '1'
and ISIC||'-'||YEAR||'-'||MONTH||'-'||RegistrationNo||'-'||commoditycode
not in
(
select /*+ all_rows*/ ISIC||'-'||YEAR||'-'||MONTH||'-'||RegistrationNo||'-'||commodity
code
from surveydata
where itemtype = '2'
and commoditycode != '999'
);

select /*+ all_rows*/ ISIC||'-'||YEAR||'-'||MONTH||'-'||RegistrationNo||'-'||commoditycode
from surveydata
where itemtype = '2'
and ISIC||'-'||YEAR||'-'||MONTH||'-'||RegistrationNo||'-'||commoditycode
not in
(
select /*+ all_rows*/ ISIC||'-'||YEAR||'-'||MONTH||'-'||RegistrationNo||'-'||commodity
code
from surveydata
where itemtype = '1'
and commoditycode != '999'
);

select /*+ all_rows*/ ISIC||'-'||YEAR||'-'||MONTH||'-'||RegistrationNo||'-'||commoditycode
from surveydata where itemtype = '2' and commoditycode != '999'
minus
select /*+ all_rows*/ ISIC||'-'||YEAR||'-'||MONTH||'-'||RegistrationNo||'-'||commoditycode
from surveydata where itemtype = '1' ;

select /*+ all_rows*/ ISIC||'-'||YEAR||'-'||MONTH||'-'||RegistrationNo||'-'||commoditycode
from surveydata where itemtype = '1'
minus
select /*+ all_rows*/ ISIC||'-'||YEAR||'-'||MONTH||'-'||RegistrationNo||'-'||commoditycode
from surveydata where itemtype = '2' and commoditycode != '999' ;

/*
3 All RegistrationNo are really registered in EstablishmentMaster? -> NO
*/
select distinct (ISIC||'-'||RegistrationNO) from SurveyHeader
where --year = 2000
ISIC||'-'||RegistrationNO not IN
( select ISIC||'-'||RegistrationNO from EstablishmentMaster)
order by ISIC||'-'||RegistrationNO;

/*
4 Number of Item3's records should be (3 * number of surveyheader). -> OK
*/
select count(*) from surveyheader;
select count(*) from surveydata where itemtype = '3';
--select count(*) from surveydata where itemtype = '3' and commoditycode = '010';
--select count(*) from surveydata where itemtype = '3' and commoditycode = '020';
--select count(*) from surveydata where itemtype = '3' and commoditycode = '030';

```

```

/*
5 Number of Item6's records should be number of item1. -> NO
*/
select count(*) from surveydata where itemtype = '1';
select count(*) from surveydata where itemtype = '6';
select distinct ISIC||CommodityCode from surveydata where itemtype = '1'
minus
select distinct ISIC||CommodityCode from surveydata where itemtype = '6';

select distinct ISIC||'-'||CommodityCode||'-'||Year||'-'||Month||'-'||RegistrationNO from
surveydata where itemtype = '1'
minus
select distinct ISIC||'-'||CommodityCode||'-'||Year||'-'||Month||'-'||RegistrationNO from
surveydata where itemtype = '6';

/*
6 Number of collected Establishments
*/

select count(distinct registrationno) as JAN from surveyheader where year = 1999 and month
= 1;
select count(distinct registrationno) as FEB from surveyheader where year = 1999 and month
= 2;
select count(distinct registrationno) as MAR from surveyheader where year = 1999 and month
= 3;
select count(distinct registrationno) as APR from surveyheader where year = 1999 and month
= 4;
select count(distinct registrationno) as MAY from surveyheader where year = 1999 and month
= 5;
select count(distinct registrationno) as JUN from surveyheader where year = 1999 and month
= 6;
select count(distinct registrationno) as JUL from surveyheader where year = 1999 and month
= 7;
select count(distinct registrationno) as AUG from surveyheader where year = 1999 and month
= 8;
select count(distinct registrationno) as SEP from surveyheader where year = 1999 and month
= 9;
select count(distinct registrationno) as OCT from surveyheader where year = 1999 and month
= 10;
select count(distinct registrationno) as NOV from surveyheader where year = 1999 and month
= 11;
select count(distinct registrationno) as DEC from surveyheader where year = 1999 and month
= 12;
--
--select count(*) from surveyheader where isic = '341001';
--select count(*) from commoditymaster where isic = '341001';
--select count(*) from commoditymaster where isic = '341010';

/*
7 Number of transfered ISIC. -> NO
*/
select distinct isic from surveyheader;

151210
155310
171110
173010
181010
232010
269410
321010
321020
323010
341001

11 rows selected.

```



```

                                null,
MT_MEINVENTOR                                -- ATRBT_RW

                                null,
                                -- RWMT_MEINVENTORYVALUE(4)
                                null,
                                -- ATRBT_RWMT_MEINVENTOR
                                null,
-- BIZCONDITION(5)
                                null,

-- UNITPRICE(1)
-- REMARKS                                s. REMARKS,
-- USERID                                'convsan',

                                sysdate                                -- RECDATE
                                from surveydata_wk1 s, ConvMaster_wk1 c
                                where s.QuestionnaireNo = c.OldquestionnaireNo
and s.ItemType = c.OldItemType
and s.CommodityCode = c.OldCommodityCode
and c.NewItemType = '1'
--and c.NewDeIFig is null ;
--and s.year = 1999;
--and s.month = 1;

-- 2. Item Type 2 Conversion
insert into surveydata
select c.NewISIC,

                                s. YEAR,
-- YEAR
                                s. MONTH,
-- MONTH
                                s. REGISTRATIONNO,
-- REGISTRATIONNO
                                c. NewITEMTYPE,
-- ITEMTYPE
                                c. NewCOMMODITYCODE,
-- COMMODITYCODE
                                null,
                                -- BM_INVENTORY(1)
                                null,
                                -- ATRBT_BM_INVENTORY
                                null,
                                -- PRODUCTIONQTY(1)
                                null,

-- ATRBT_PRODUCTIONQTY
                                null,
                                -- RECEIPTS(1)
                                null,
                                -- ATRBT_RECEIPTS
                                null,
                                -- DOMESTICSALES(1)
                                null,

ATRBT_DOMESTICSALES                                --

                                null,
                                -- EXPORT(1)
                                null,

ATRBT_EXPORT                                --

                                null,
                                -- OTHERSALES(1)
                                null,
                                -- ATRBT_OTHERSALES
                                null,
                                -- ME_INVENTORY(1)
                                null,

-- ATRBT_ME_INVENTORY
                                null,
-- CAPACITY(6)
                                null,

-- ATRBT_CAPACITY
                                SHIPMENTTOTALVALUE,
-- S

```

```

HIPMENTVALUE(2)
ATRBT_SHIPMENTVALUE
-- LABORTOTAL(3)
ATRBT_LABORTOTAL
ATRBT_LABOR_SC
(4)
MT_MEINVENTOR
-- BIZCONDITION(5)
-- UNITPRICE(1)
-- REMARKS
-- USERID
-- RECDATE
-- BM_INVENTORY(1)
-- ATRBT_BM_INVENTORY
-- PRODUCTIONQTY(1)
-- ATRBT_PRODUCTIONQTY
-- RECEIPTS(1)
-- ATRBT_RECEIPTS
-- DOMESTICSALES(1)
ATRBT_DOMESTICSALES

```

```

null,
-- EXPORT(1)
null,
--
ATRBT_EXPORT
--
null,
-- OTHERSALES(1)
null,
-- ATRBT_OTHERSALES
null,
-- ME_INVENTORY(1)
null,
-- ATRBT_ME_INVENTORY
-- CAPACITY(6)
null,
-- ATRBT_CAPACITY
-- SHIPMENTVALUE(2)
null,
-- ATRBT_SHIPMENTVALUE
-- SALESPLAN(2)
null,
-- ATRBT_SALESPLAN
QTY_FORLABOR , -- L
decode(QTY_FORLABOR, null, 'U', 'V'), -- A
QTY_FORLABOR , -- L
decode(QTY_FORLABOR, null, 'U', 'V'), -- A
null,
-- RWMT_MEINVENTORY
(4)
null,
-- ATRBT_RW
MT_MEINVENTOR
-- RWMT_MEINVENTORYVALUE(4)
null,
-- ATRBT_RWMT_MEINVENTOR
-- BIZCONDITION(5)
null,
-- UNITPRICE(1)
s. REMARKS,
-- REMARKS
'convsan',
-- USERID
sysdate -- RECDATE
from surveydata_wk1 s, ConvMaster_wk1 c
where s.QuestionnaireNo = c.OldquestionnaireNo
and s.ItemType = c.OldItemType
and s.CommodityCode = c.OldCommodityCode
and c.NewItemType = '3'
and c.NewDeIFig is null ;
-- and s.year = 1999
-- and s.month = 1;

-- 4. Item Type 4 Conversion
insert into surveydata
select c.NewSIC,
s. YEAR,
-- YEAR
s. MONTH,
-- MONTH
s. REGISTRATIONNO,
-- REGISTRATIONNO
c. NewITEMTYPE,
-- ITEMTYPE
c. NewCOMMODITYCODE,

```

```

-- COMMODITYCODE
null,
-- BM_INVENTORY(1)
null,
-- ATRBT_BM_INVENTORY
null,
-- PRODUCTIONQTY(1)
null,

-- ATRBT_PRODUCTIONQTY
null,
-- RECEIPTS(1)
null,
-- ATRBT_RECEIPTS
null,
-- DOMESTICSALES(1)
null,

ATRBT_DOMESTICSALES
null,
-- EXPORT(1)
null,

ATRBT_EXPORT
null,
-- OTHERSALES(1)
null,
-- ATRBT_OTHERSALES
null,
-- ME_INVENTORY(1)
null,

-- ATRBT_ME_INVENTORY
null,
-- CAPACITY(6)
null,

-- ATRBT_CAPACITY
null,
-- SHIPMENTVALUE(2)
null,

-- ATRBT_SHIPMENTVALUE
null,
-- SALESPLAN(2)
null,
-- ATRBT_SALESPLAN
null,
-- LABORTOTAL(3)
null,

-- ATRBT_LABORTOTAL
null,
-- LABOR_SC(3)
null,

-- ATRBT_LABOR_SC
MEINVENTORY_FORROWMATERIALS, -- R
WMT_MEINVENTORY(4)
decode(MEINVENTORY_FORROWMATERIALS, null, 'U
', 'V'), -- ATRBT_RWMT_MEINVENTOR
null,
-- RWMT_MEINVENTORYVALUE(4)
'U',

-- ATRBT_RWMT_MEINVENTOR
null,
-- BIZCONDITION(5)
null,

-- UNITPRICE(1)
s. REMARKS,
-- REMARKS
'convsan',
-- USERID
sysdate
from surveydata_wk1 s, ConvMaster_wk1 c -- RECDATE

```

```

        where s.QuestionnaireNo = c.OldquestionnaireNo
and      s.ItemType = c.OldItemType
and      s.CommodityCode = c.OldCommodityCode
        and      c.NewItemType = '4'
        and      c.NewDelFlg is null
        -- and    s.year = 1999
        -- and    s.month = 1;

-- 5. Item Type 5 Conversion
insert into surveydata
select c.NewISIC,

        s.YEAR,
        -- YEAR
        s.MONTH,
        -- MONTH
        s.REGISTRATIONNO,

        -- REGISTRATIONNO
        c.NewITEMTYPE,

        -- ITEMTYPE
        c.NewCOMMODITYCODE,

        -- COMMODITYCODE
        null,
        -- BM_INVENTORY(1)
        null,
        -- ATRBT_BM_INVENTORY
        null,
        -- PRODUCTIONQTY(1)
        null,

        -- ATRBT_PRODUCTIONQTY
        null,
        -- RECEIPTS(1)
        null,
        -- ATRBT_RECEIPTS
        null,
        -- DOMESTICSALES(1)
        null,

        ATRBT_DOMESTICSALES,
        --
        null,
        -- EXPORT(1)
        null,
        --
        null,
        -- OTHERSALES(1)
        null,
        -- ATRBT_OTHERSALES
        null,
        -- ME_INVENTORY(1)
        null,

        -- ATRBT_ME_INVENTORY
        null,
        -- CAPACITY(6)
        null,

        -- ATRBT_CAPACITY
        null,
        -- SHIPMENTVALUE(2)
        null,

        -- ATRBT_SHIPMENTVALUE
        null,
        -- SALESPLAN(2)
        null,
        -- ATRBT_SALESPLAN
        null,

        -- LABORTOTAL(3)
        null,

        -- ATRBT_LABORTOTAL
        null,
        -- LABOR_SC(3)
        null,

        -- ATRBT_LABOR_SC

```

```

(4)                                     null,
                                           -- RWMT_MEINVENTORY

                                           null,

-- ATRBT_RWMT_MEINVENTOR
                                           null,
                                           -- RWMT_MEINVENTORYVALUE(4)
                                           null,

-- ATRBT_RWMT_MEINVENTOR
                                           BIZCONDITION,
-- BIZCONDITION(5)
                                           null,

-- UNITPRICE(1)
                                           s. REMARKS,
-- REMARKS
                                           ' convsan',
-- USERID
                                           sysdate
                                           -- RECDATE
from surveydata_wk1 s, ConvMaster_wk1 c
where s.QuestionnaireNo = c.OldquestionnaireNo
and s.ItemType = c.OldItemType
and s.CommodityCode = c.OldCommodityCode
and c.NewItemType = '5'
and c.NewDelFig is null
-- and s.year = 1999
-- and s.month = 1;

-- 6. Item Type 6 Conversion(Convert From ItemType1 )
insert into surveydata
select c.NewISIC,
                                           s. YEAR,
                                           -- YEAR
                                           s. MONTH,
                                           -- MONTH
                                           s. REGISTRATIONNO,
-- REGISTRATIONNO
                                           '6',
-- ITEMTYPE
                                           c. NewCOMMODITYCODE,
-- COMMODITYCODE
                                           null,
                                           -- BM_INVENTORY(1)
                                           null,
                                           -- ATRBT_BM_INVENTORY
                                           null,
                                           -- PRODUCTIONQTY(1)
                                           null,
-- ATRBT_PRODUCTIONQTY
                                           null,
                                           -- RECEIPTS(1)
                                           null,
                                           -- ATRBT_RECEIPTS
                                           null,
                                           -- DOMESTICSALES(1)
                                           null,
-- ATRBT_DOMESTICSALES
                                           null,
                                           -- EXPORT(1)
                                           null,
-- ATRBT_EXPORT
                                           null,
                                           -- OTHERSALES(1)
                                           null,
                                           -- ATRBT_OTHERSALES
                                           null,
                                           -- ME_INVENTORY(1)
                                           null,
-- ATRBT_ME_INVENTORY
                                           ANNUALCAPACITY ,
                                           -- C

```

TRBT_CAPACITY

```

null,
-- SHIPMENTVALUE(2)
null,

```

```

null,
-- SALESPLAN(2)
null,
-- ATRBT_SALESPLAN
null,

```

null,

```

null,
-- LABOR_SC(3)
null,

```

null,

-- RWMT_MEINVENTORY

null,

null,

null,

null,

null,

s. REMARKS,

'conysan',

-- RECDATE

and
and

```
s.CommodityCode = c.OldCommodityCode
```

and c. NewItemType = '1'

and c. NewDelFlg is null

```
-- and          s. year = 1999
```

```
-- and s.month = 1;
```

```
insert into surveydata
```

```
select SIC,
```

YEAR,
MONTH,
REGISTRATIONNO,
Item Type,
'999',

null,

null,

null,

null,

null,

null,

null,

null,

null,

null,

null,

null,

null,

null,

null,

sum(shipmentvalue),


```
from surveydata
where itemtype = 2
--and year = 1999
--and month = 1
and CommodityCode != '999'
group by ISIC, Year, Month, RegistrationNo, itemtype;
```

```
update surveydata
set ATRBT_SHIPMENTVALUE = 'V'
where ITEMTYPE = '2'
AND SHIPMENTVALUE is not null
and CommodityCode = '999'
and year = 1999;
```

```
update surveydata
set labor_sc = null,
    ATRBT_LABOR_SC = 'U'
where itemtype = 3
and commodityCode in ('020','030');
--and year = 1999
--and month = 1;
```

```
insert into surveyheader
select distinct
    isic, year, month, registrationNo, 0, 0, 0
from surveydata
--where year = 1999
--and month = 1
and itemtype = 1;
```

ATRBT_EXPORT,
 OTHERSALES,
 ATRBT_OTHERSALES,
 ME_INVENTORY,
 ATRBT_ME_INVENTORY,
 CAPACITY,
 ATRBT_CAPACITY,
 SHIPMENTVALUE,
 ATRBT_SHIPMENTVALUE,
 SALESPLAN,
 ATRBT_SALESPLAN,
 LABORTOTAL,
 ATRBT_LABORTOTAL,
 LABOR_SC,
 ATRBT_LABOR_SC,
 RWMT_MEINVENTORY,
 ATRBT_RWMT_MEINVENTORY,
 RWMT_MEINVENTORYVALUE,
 ATRBT_RWMT_MEINVENTORYVALUE,
 BIZCONDITION,
 UNITPRICE,
 REMARKS,
 USERID,
 RECDATE

```

from SurveyData
where ISIC = '173010'
      --and Year = 1999
      --and Month = 1
      and ItemType in ('3','5');
  
```

-- Step 09 : BM_Inventory Automatic Setting

```

-- Set BM_Inventory
update SurveyData a
set
  BM_Inventory =
  (select ME_Inventory
   from SurveyData b
   where a.ISIC = b.ISIC
        and a.Year = b.Year
        and a.Month - 1 = b.Month
        and a.RegistrationNo = b.RegistrationNo
        and a.ItemType = b.ItemType
        and a.commodityCode = b.CommodityCode)
where a.ItemType = '1';
and a.Year = 1999
and a.Month in(2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12);
  
```

```

-- Set Attribute
update SurveyData
set
  Atrbt_BM_Inventory = 'V'
where BM_Inventory is not null
      and Year = 1999
      and Month in(2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12);
  
```

-- Step 10 : Set BM_Inventory, Receipts, OtherSales

```

update surveydata
set bm_inventory = 0,
    atrbt_bm_inventory = 'V'
where (atrbt_productionqty = 'V'
      or atrbt_domesticsales = 'V'
      or atrbt_export = 'V'
      or atrbt_me_inventory = 'V')
and bm_inventory is null
and year = 1999;
  
```

```

update surveydata
set receipts= 0,
    atrbt_receipts = 'V'
where (atrbt_productionqty = 'V'
      or atrbt_domesticsales = 'V'
      or atrbt_export = 'V'
      or atrbt_me_inventory = 'V')
and receipts is null
  
```

```
and year = 1999;

update surveydata
set othersales= 0,
    atrbt_othersales = 'V'
where (atrbt_productionqty = 'V'
or atrbt_domesticsales = 'V'
or atrbt_export = 'V'
or atrbt_me_inventory = 'V')
and othersales is null
and year = 1999;
```

```
select ISIC ,count(*) from establishmentmaster
where continuousrespondent = '1'
group by isic;
```

```
select ISIC ,count(*) from establishmentmaster
group by isic;
```

```
select count(DISTINCT REGISTRATIONNO) from establishmentmaster
where continuousrespondent = '1' ;
```

```
select count(REGISTRATIONNO) from establishmentmaster ;
```

```
select ISIC ,count(*), SurveyScope from establishmentmaster
group by isic, SurveyScope;
```

```
select count(DISTINCT REGISTRATIONNO) from establishmentmaster
where continuousrespondent = '1'
  and isic in ('173010','181010')
  and surveyscope = '1';
```

```

--
-- Auto Matic Yearly Process
-- Sabai Mark Mark Proc
--      @g:%conversion%GRCal;
--

truncate table pastrecord;
/

begin Weight.CreateWeightView; end;
/

-- 1
begin AutoEst.p_UnitPriceUpd(1999, 1); commit; end;
/
begin MonthProc.p_PastRecMk('2', 1999, 1); commit; end;
/
begin CalcIndex.Main(1999, 1, '2'); commit; end;
/
begin GRCal.p_GRIndices(1999, 1, '2'); commit; end;
/
begin GRCal.p_GREleComm(1999, 1, '2'); commit; end;
/
begin GRCal.p_GREleIndustry(1999, 1, '2'); commit; end;
/
begin YearProc.p_BatchCtlUpd(1999, 1); commit; end;
/

-- 2
begin AutoEst.p_UnitPriceUpd(1999, 2); commit; end;
/
begin MonthProc.p_PastRecMk('2', 1999, 2); commit; end;
/
begin CalcIndex.Main(1999, 2, '2'); commit; end;
/
begin GRCal.p_GRIndices(1999, 2, '2'); commit; end;
/
begin GRCal.p_GREleComm(1999, 2, '2'); commit; end;
/
begin GRCal.p_GREleIndustry(1999, 2, '2'); commit; end;
/
begin YearProc.p_BatchCtlUpd(1999, 2); commit; end;
/

-- 3
begin AutoEst.p_UnitPriceUpd(1999, 3); commit; end;
/
begin MonthProc.p_PastRecMk('2', 1999, 3); commit; end;
/
begin CalcIndex.Main(1999, 3, '2'); commit; end;
/
begin GRCal.p_GRIndices(1999, 3, '2'); commit; end;
/
begin GRCal.p_GREleComm(1999, 3, '2'); commit; end;
/
begin GRCal.p_GREleIndustry(1999, 3, '2'); commit; end;
/
begin YearProc.p_BatchCtlUpd(1999, 3); commit; end;
/

-- 4
begin AutoEst.p_UnitPriceUpd(1999, 4); commit; end;
/
begin MonthProc.p_PastRecMk('2', 1999, 4); commit; end;
/
begin CalcIndex.Main(1999, 4, '2'); commit; end;
/
begin GRCal.p_GRIndices(1999, 4, '2'); commit; end;
/
begin GRCal.p_GREleComm(1999, 4, '2'); commit; end;
/
begin GRCal.p_GREleIndustry(1999, 4, '2'); commit; end;
/
begin YearProc.p_BatchCtlUpd(1999, 4); commit; end;
/

```

```

-- 5
begin AutoEst.p_UnitPriceUpd(1999, 5); commit; end;
/
begin MonthProc.p_PastRecMk('2', 1999, 5); commit; end;
/
begin CalcIndex.Main(1999, 5, '2'); commit; end;
/
begin GRCal.p_GRIndices(1999, 5, '2'); commit; end;
/
begin GRCal.p_GREleComm(1999, 5, '2'); commit; end;
/
begin GRCal.p_GREleIndustry(1999, 5, '2'); commit; end;
/
begin YearProc.p_BatchCtlUpd(1999, 5); commit; end;
/

-- 6
begin AutoEst.p_UnitPriceUpd(1999, 6); commit; end;
/
begin MonthProc.p_PastRecMk('2', 1999, 6); commit; end;
/
begin CalcIndex.Main(1999, 6, '2'); commit; end;
/
begin GRCal.p_GRIndices(1999, 6, '2'); commit; end;
/
begin GRCal.p_GREleComm(1999, 6, '2'); commit; end;
/
begin GRCal.p_GREleIndustry(1999, 6, '2'); commit; end;
/
begin YearProc.p_BatchCtlUpd(1999, 6); commit; end;
/

-- 7
begin AutoEst.p_UnitPriceUpd(1999, 7); commit; end;
/
begin MonthProc.p_PastRecMk('2', 1999, 7); commit; end;
/
begin CalcIndex.Main(1999, 7, '2'); commit; end;
/
begin GRCal.p_GRIndices(1999, 7, '2'); commit; end;
/
begin GRCal.p_GREleComm(1999, 7, '2'); commit; end;
/
begin GRCal.p_GREleIndustry(1999, 7, '2'); commit; end;
/
begin YearProc.p_BatchCtlUpd(1999, 7); commit; end;
/

-- 8
begin AutoEst.p_UnitPriceUpd(1999, 8); commit; end;
/
begin MonthProc.p_PastRecMk('2', 1999, 8); commit; end;
/
begin CalcIndex.Main(1999, 8, '2'); commit; end;
/
begin GRCal.p_GRIndices(1999, 8, '2'); commit; end;
/
begin GRCal.p_GREleComm(1999, 8, '2'); commit; end;
/
begin GRCal.p_GREleIndustry(1999, 8, '2'); commit; end;
/
begin YearProc.p_BatchCtlUpd(1999, 8); commit; end;
/

-- 9
begin AutoEst.p_UnitPriceUpd(1999, 9); commit; end;
/
begin MonthProc.p_PastRecMk('2', 1999, 9); commit; end;
/
begin CalcIndex.Main(1999, 9, '2'); commit; end;
/
begin GRCal.p_GRIndices(1999, 9, '2'); commit; end;
/
begin GRCal.p_GREleComm(1999, 9, '2'); commit; end;
/
begin GRCal.p_GREleIndustry(1999, 9, '2'); commit; end;
/

```

```

begin YearProc.p_BatchCtlUpd(1999, 9); commit; end;
/

-- 10
begin AutoEst.p_UnitPriceUpd(1999, 10); commit; end;
/
begin MonthProc.p_PastRecMk('2', 1999, 10); commit; end;
/
begin CalcIndex.Main(1999, 10, '2'); commit; end;
/
begin GRCal.p_GRIndices(1999, 10, '2'); commit; end;
/
begin GRCal.p_GREleComm(1999, 10, '2'); commit; end;
/
begin GRCal.p_GREleIndustry(1999, 10, '2'); commit; end;
/
begin YearProc.p_BatchCtlUpd(1999, 10); commit; end;
/

-- 11
begin AutoEst.p_UnitPriceUpd(1999, 11); commit; end;
/
begin MonthProc.p_PastRecMk('2', 1999, 11); commit; end;
/
begin CalcIndex.Main(1999, 11, '2'); commit; end;
/
begin GRCal.p_GRIndices(1999, 11, '2'); commit; end;
/
begin GRCal.p_GREleComm(1999, 11, '2'); commit; end;
/
begin GRCal.p_GREleIndustry(1999, 11, '2'); commit; end;
/
begin YearProc.p_BatchCtlUpd(1999, 11); commit; end;
/

-- 12
begin AutoEst.p_UnitPriceUpd(1999, 12); commit; end;
/
begin MonthProc.p_PastRecMk('2', 1999, 12); commit; end;
/
begin CalcIndex.Main(1999, 12, '2'); commit; end;
/
begin GRCal.p_GRIndices(1999, 12, '2'); commit; end;
/
begin GRCal.p_GREleComm(1999, 12, '2'); commit; end;
/
begin GRCal.p_GREleIndustry(1999, 12, '2'); commit; end;
/
begin YearProc.p_BatchCtlUpd(1999, 12); commit; end;
/
BEGIN YearProc.p_AnnualCal(1999); Commit; END;
/

-- 2000-1
BEGIN AutoEst.main(2000, 1, '2'); commit; END;
/
begin MonthProc.p_PastRecMk('2', 2000, 1); commit; end;
/
begin CalcIndex.Main(2000, 1, '2'); commit; end;
/
begin GRCal.p_GRIndices(2000, 1, '2'); commit; end;
/
begin GRCal.p_GREleComm(2000, 1, '2'); commit; end;
/
begin GRCal.p_GREleIndustry(2000, 1, '2'); commit; end;
/
begin MonthProc.p_BatchCtlUpd('2', 2000, 1); commit; end;
/

-- 2000-2
BEGIN AutoEst.main(2000, 2, '2'); commit; END;
/
begin MonthProc.p_PastRecMk('2', 2000, 2); commit; end;
/
begin CalcIndex.Main(2000, 2, '2'); commit; end;
/
begin GRCal.p_GRIndices(2000, 2, '2'); commit; end;
/

```

```

/
begin GRCal.p_GREleComm(2000, 2, '2'); commit; end;
/
begin GRCal.p_GREleIndustry(2000, 2, '2'); commit; end;
/
begin MonthProc.p_BatchCtlUpd('2', 2000, 2); commit; end;
/

-- 2000-3
BEGIN AutoEst.main(2000, 3, '2'); commit; END;
/
begin MonthProc.p_PastRecMk('2', 2000, 3); commit; end;
/
begin CalcIndex.Main(2000, 3, '2'); commit; end;
/
begin GRCal.p_GRIndices(2000, 3, '2'); commit; end;
/
begin GRCal.p_GREleComm(2000, 3, '2'); commit; end;
/
begin GRCal.p_GREleIndustry(2000, 3, '2'); commit; end;
/
begin MonthProc.p_BatchCtlUpd('2', 2000, 3); commit; end;
/

```



```

--
-- Auto Matic Yearly Process
-- Sabai Mark Mark Proc
--
--      @E:%userjica%conversion%ProcYear2.sql;
--

--truncate table pastrecord;
/

--begin Weight.CreateWeightView; end;
/

begin MonthProc.p_LinkCopy(2000, 2); commit; end;

-- 1
/*
begin AutoEst.p_UnitPriceUpd(1999, 1); commit; end;
/
begin MonthProc.p_PastRecMk('2', 1999, 1); commit; end;
/
begin CalcIndex.Main(1999, 1, '2'); commit; end;
/
begin GRCal.p_GRIndices(1999, 1, '2'); commit; end;
/
begin GRCal.p_GREleComm(1999, 1, '2'); commit; end;
/
begin GRCal.p_GREleIndustry(1999, 1, '2'); commit; end;
/
begin YearProc.p_BatchCtlUpd(1999, 1); commit; end;
/

-- 2
begin AutoEst.p_UnitPriceUpd(1999, 2); commit; end;
/
begin MonthProc.p_PastRecMk('2', 1999, 2); commit; end;
/
begin CalcIndex.Main(1999, 2, '2'); commit; end;
/
begin GRCal.p_GRIndices(1999, 2, '2'); commit; end;
/
begin GRCal.p_GREleComm(1999, 2, '2'); commit; end;
/
begin GRCal.p_GREleIndustry(1999, 2, '2'); commit; end;
/
begin YearProc.p_BatchCtlUpd(1999, 2); commit; end;
/
*/

-- 3
begin AutoEst.p_UnitPriceUpd(1999, 3); commit; end;
/
begin MonthProc.p_PastRecMk('2', 1999, 3); commit; end;
/
begin CalcIndex.Main(1999, 3, '2'); commit; end;
/
begin GRCal.p_GRIndices(1999, 3, '2'); commit; end;
/
begin GRCal.p_GREleComm(1999, 3, '2'); commit; end;
/
begin GRCal.p_GREleIndustry(1999, 3, '2'); commit; end;
/
begin YearProc.p_BatchCtlUpd(1999, 3); commit; end;
/

-- 4
begin AutoEst.p_UnitPriceUpd(1999, 4); commit; end;
/
begin MonthProc.p_PastRecMk('2', 1999, 4); commit; end;
/
begin CalcIndex.Main(1999, 4, '2'); commit; end;
/
begin GRCal.p_GRIndices(1999, 4, '2'); commit; end;
/
begin GRCal.p_GREleComm(1999, 4, '2'); commit; end;
/
begin GRCal.p_GREleIndustry(1999, 4, '2'); commit; end;
/

```

```

/
begin YearProc. p_BatchCtlUpd(1999, 4); commit; end;
/

-- 5
begin AutoEst. p_UnitPriceUpd(1999, 5); commit; end;
/
begin MonthProc. p_PastRecMk('2', 1999, 5); commit; end;
/
begin CalcIndex. Main(1999, 5, '2'); commit; end;
/
begin GRCal. p_GRIndices(1999, 5, '2'); commit; end;
/
begin GRCal. p_GREleComm(1999, 5, '2'); commit; end;
/
begin GRCal. p_GREleIndustry(1999, 5, '2'); commit; end;
/
begin YearProc. p_BatchCtlUpd(1999, 5); commit; end;
/

-- 6
begin AutoEst. p_UnitPriceUpd(1999, 6); commit; end;
/
begin MonthProc. p_PastRecMk('2', 1999, 6); commit; end;
/
begin CalcIndex. Main(1999, 6, '2'); commit; end;
/
begin GRCal. p_GRIndices(1999, 6, '2'); commit; end;
/
begin GRCal. p_GREleComm(1999, 6, '2'); commit; end;
/
begin GRCal. p_GREleIndustry(1999, 6, '2'); commit; end;
/
begin YearProc. p_BatchCtlUpd(1999, 6); commit; end;
/

-- 7
begin AutoEst. p_UnitPriceUpd(1999, 7); commit; end;
/
begin MonthProc. p_PastRecMk('2', 1999, 7); commit; end;
/
begin CalcIndex. Main(1999, 7, '2'); commit; end;
/
begin GRCal. p_GRIndices(1999, 7, '2'); commit; end;
/
begin GRCal. p_GREleComm(1999, 7, '2'); commit; end;
/
begin GRCal. p_GREleIndustry(1999, 7, '2'); commit; end;
/
begin YearProc. p_BatchCtlUpd(1999, 7); commit; end;
/

-- 8
begin AutoEst. p_UnitPriceUpd(1999, 8); commit; end;
/
begin MonthProc. p_PastRecMk('2', 1999, 8); commit; end;
/
begin CalcIndex. Main(1999, 8, '2'); commit; end;
/
begin GRCal. p_GRIndices(1999, 8, '2'); commit; end;
/
begin GRCal. p_GREleComm(1999, 8, '2'); commit; end;
/
begin GRCal. p_GREleIndustry(1999, 8, '2'); commit; end;
/
begin YearProc. p_BatchCtlUpd(1999, 8); commit; end;
/

-- 9
begin AutoEst. p_UnitPriceUpd(1999, 9); commit; end;
/
begin MonthProc. p_PastRecMk('2', 1999, 9); commit; end;
/
begin CalcIndex. Main(1999, 9, '2'); commit; end;
/
begin GRCal. p_GRIndices(1999, 9, '2'); commit; end;
/

```

```

begin GRCal.p_GREleComm(1999, 9, '2'); commit; end;
/
begin GRCal.p_GREleIndustry(1999, 9, '2'); commit; end;
/
begin YearProc.p_BatchCtlUpd(1999, 9); commit; end;
/

-- 10
begin AutoEst.p_UnitPriceUpd(1999, 10); commit; end;
/
begin MonthProc.p_PastRecMk('2', 1999, 10); commit; end;
/
begin CalcIndex.Main(1999, 10, '2'); commit; end;
/
begin GRCal.p_GRIndices(1999, 10, '2'); commit; end;
/
begin GRCal.p_GREleComm(1999, 10, '2'); commit; end;
/
begin GRCal.p_GREleIndustry(1999, 10, '2'); commit; end;
/
begin YearProc.p_BatchCtlUpd(1999, 10); commit; end;
/

-- 11
begin AutoEst.p_UnitPriceUpd(1999, 11); commit; end;
/
begin MonthProc.p_PastRecMk('2', 1999, 11); commit; end;
/
begin CalcIndex.Main(1999, 11, '2'); commit; end;
/
begin GRCal.p_GRIndices(1999, 11, '2'); commit; end;
/
begin GRCal.p_GREleComm(1999, 11, '2'); commit; end;
/
begin GRCal.p_GREleIndustry(1999, 11, '2'); commit; end;
/
begin YearProc.p_BatchCtlUpd(1999, 11); commit; end;
/

-- 12
begin AutoEst.p_UnitPriceUpd(1999, 12); commit; end;
/
begin MonthProc.p_PastRecMk('2', 1999, 12); commit; end;
/
begin CalcIndex.Main(1999, 12, '2'); commit; end;
/
begin GRCal.p_GRIndices(1999, 12, '2'); commit; end;
/
begin GRCal.p_GREleComm(1999, 12, '2'); commit; end;
/
begin GRCal.p_GREleIndustry(1999, 12, '2'); commit; end;
/
begin YearProc.p_BatchCtlUpd(1999, 12); commit; end;
/
BEGIN YearProc.p_AnnualCal(1999); Commit; END;
/

-- 2000-1
/*
BEGIN AutoEst.main(2000, 1, '1'); commit; END;
/
begin MonthProc.p_PastRecMk('1', 2000, 1); commit; end;
/
begin CalcIndex.Main(2000, 1, '1'); commit; end;
/
begin GRCal.p_GRIndices(2000, 1, '1'); commit; end;
/
begin GRCal.p_GREleComm(2000, 1, '1'); commit; end;
/
begin GRCal.p_GREleIndustry(2000, 1, '1'); commit; end;
/
begin MonthProc.p_BatchCtlUpd('1', 2000, 1); commit; end;
/

-- 2000-2
BEGIN AutoEst.main(2000, 2, '2'); commit; END;
/

```

```

/ begin MonthProc. p_PastRecMk('2', 2000, 2); commit; end;
/ begin CalcIndex. Main(2000, 2, '2'); commit; end;
/ begin GRCal. p_GRIndices(2000, 2, '2'); commit; end;
/ begin GRCal. p_GREleComm(2000, 2, '2'); commit; end;
/ begin GRCal. p_GREleIndustry(2000, 2, '2'); commit; end;
/ begin MonthProc. p_BatchCtlUpd('2', 2000, 2); commit; end;
/

-- 2000-3
BEGIN AutoEst. main(2000, 3, '2'); commit; END;
/ begin MonthProc. p_PastRecMk('2', 2000, 3); commit; end;
/ begin CalcIndex. Main(2000, 3, '2'); commit; end;
/ begin GRCal. p_GRIndices(2000, 3, '2'); commit; end;
/ begin GRCal. p_GREleComm(2000, 3, '2'); commit; end;
/ begin GRCal. p_GREleIndustry(2000, 3, '2'); commit; end;
/ begin MonthProc. p_BatchCtlUpd('2', 2000, 3); commit; end;
/
*/

```