Program Source Code

1. SQL
2. Visual Basic
3. Oracle Script
4. Stored Procedure
5. Excel Macro Module
6. Conversion Program

July 2000

SQL

```
CREATE TABLE AggregationMaster (
        AggregationRange      VARCHAR2(1) NOT NULL,
        ISIC                  VARCHAR2(8) NOT NULL,
        IndustryType          VARCHAR2(100) NULL,
        IndustryTypeShortName VARCHAR2(20) NULL,
        DivCode               VARCHAR2(2) NULL,
        IssueDate             DATE NULL,
        ExpiredDate           DATE NULL
);

CREATE UNIQUE INDEX XPKAggregationMaster ON AggregationMaster
(
        AggregationRange,
        ISIC
);


CREATE TABLE AnnualCollectionStatus (
        Seq                   SMALLINT NOT NULL,
        Year                  NUMBER NOT NULL,
        ISIC                  VARCHAR2(8) NOT NULL,
        SurveyScope           VARCHAR2(1) NOT NULL,
        SelContinuousRespondent VARCHAR2(5) NOT NULL,
        RegistrationNo        VARCHAR2(20) NOT NULL,
        EstablishmentName     VARCHAR2(100) NULL,
        CompanyTel            VARCHAR2(80) NULL,
        ContinuousRespondent  VARCHAR2(1) NULL,
        EstimatedMark01       VARCHAR2(1) NULL,
        EstimatedMark02       VARCHAR2(1) NULL,
        EstimatedMark03       VARCHAR2(1) NULL,
        EstimatedMark04       VARCHAR2(1) NULL,
        EstimatedMark05       VARCHAR2(1) NULL,
        EstimatedMark06       VARCHAR2(1) NULL,
        EstimatedMark07       VARCHAR2(1) NULL,
        EstimatedMark08       VARCHAR2(1) NULL,
        EstimatedMark09       VARCHAR2(1) NULL,
        EstimatedMark10       VARCHAR2(1) NULL,
        EstimatedMark11       VARCHAR2(1) NULL,
        EstimatedMark12       VARCHAR2(1) NULL
);

CREATE UNIQUE INDEX XPKAnnualCollectionStatus ON AnnualCollectionStatus
(
        Seq,
        Year,
        ISIC,
        SurveyScope,
        SelContinuousRespondent,
        RegistrationNo
);


CREATE TABLE AnnualIndices (
        AggregationRange      VARCHAR2(1) NOT NULL,
        ISIC                  VARCHAR2(8) NOT NULL,
        ItemType              VARCHAR2(1) NOT NULL,
        IndexCommodityCode    VARCHAR2(3) NOT NULL,
        Year                  NUMBER NOT NULL,
        SurveyScope           VARCHAR2(1) NOT NULL,
        IndexPR1              NUMBER NULL,
        IndexSP2              NUMBER NULL,
        IndexIV3              NUMBER NULL,
        IndexIR4              NUMBER NULL,
        IndexCU5              NUMBER NULL,
        IndexLP6              NUMBER NULL,
        IndexLI7              NUMBER NULL,
        IndexRI8              NUMBER NULL,
        RecDate               DATE NULL
);

CREATE UNIQUE INDEX XPKAnnualIndices ON AnnualIndices
(
        AggregationRange,
        ISIC,
        ItemType,
        IndexCommodityCode,
```

```
        Year,
        SurveyScope
);


CREATE TABLE AttributeMaster (
        Atrbt_Code              VARCHAR2(1) NOT NULL,
        Attribute               VARCHAR2(20) NULL
);

CREATE UNIQUE INDEX XPKAttributeMaster ON AttributeMaster
(
        Atrbt_Code
);


CREATE TABLE BalanceComparison (
        Seq                     SMALLINT NOT NULL,
        IndexType               VARCHAR2(1) NOT NULL,
        ComparisonTarget        VARCHAR2(1) NOT NULL,
        Year                    NUMBER NOT NULL,
        Month                   NUMBER NOT NULL,
        ISIC                    VARCHAR2(8) NOT NULL,
        IndustryTypeShortName VARCHAR2(20) NULL,
        IndexPMY                NUMBER NULL,
        IndexPre                NUMBER NULL,
        IndexRev                NUMBER NULL,
        IndexBalance            NUMBER NULL,
        GR_Pre                  NUMBER NULL,
        GR_Rev                  NUMBER NULL,
        CD_Pre                  NUMBER NULL,
        CD_Rev                  NUMBER NULL,
        CD_Balance              NUMBER NULL,
        SumIndexPMY             NUMBER NULL,
        SumIndexPre             NUMBER NULL,
        SumIndexRev             NUMBER NULL,
        SumIndexBalance         NUMBER NULL,
        SumGR_Pre               NUMBER NULL,
        SumGR_Rev               NUMBER NULL,
        SumCD_Pre               NUMBER NULL,
        SumCD_Rev               NUMBER NULL,
        SumCD_Balance           NUMBER NULL
);

CREATE UNIQUE INDEX XPKBalanceComparison ON BalanceComparison
(
        Seq,
        IndexType,
        ComparisonTarget,
        Year,
        Month,
        ISIC
);


CREATE TABLE BasePeriodFile (
        ISIC                    VARCHAR2(8) NOT NULL,
        Year                    NUMBER NOT NULL,
        Month                   NUMBER NOT NULL,
        RegistrationNo          VARCHAR2(20) NOT NULL,
        ItemType                VARCHAR2(1) NOT NULL,
        CommodityCode           VARCHAR2(3) NOT NULL,
        SurveyScope             VARCHAR2(1) NOT NULL,
        Version                 VARCHAR2(1) NOT NULL,
        BM_Inventory            NUMBER NULL,
        Atrbt_BM_Inventory      VARCHAR2(1) NULL,
        ProductionQTY           NUMBER NULL,
        Atrbt_ProductionQTY     VARCHAR2(1) NULL,
        Receipts                NUMBER NULL,
        Atrbt_Receipts          VARCHAR2(1) NULL,
        DomesticSales           NUMBER NULL,
        Atrbt_DomesticSales     VARCHAR2(1) NULL,
        Export                  NUMBER NULL,
        Atrbt_Export            VARCHAR2(1) NULL,
        OtherSales              NUMBER NULL,
        Atrbt_OtherSales        VARCHAR2(1) NULL,
        ME_Inventory            NUMBER NULL,
```

```
        Atrbt_ME_Inventory   VARCHAR2(1) NULL,
        Capacity             NUMBER NULL,
        Atrbt_Capacity       VARCHAR2(1) NULL,
        ShipmentValue        NUMBER NULL,
        Atrbt_ShipmentValue  VARCHAR2(1) NULL,
        SalesPlan            NUMBER NULL,
        Atrbt_SalesPlan      VARCHAR2(1) NULL,
        LaborTotal           NUMBER NULL,
        Atrbt_LaborTotal     VARCHAR2(1) NULL,
        Labor_SC             NUMBER NULL,
        Atrbt_Labor_SC       VARCHAR2(1) NULL,
        RwMt_MEInventory     NUMBER NULL,
        Atrbt_RwMt_MEInventory VARCHAR2(1) NULL,
        RwMt_MEInventoryValue NUMBER NULL,
        Atrbt_RwMt_MEInventoryValue VARCHAR2(1) NULL,
        BizCondition         NUMBER NULL,
        UnitPrice            NUMBER NULL,
        Remarks              VARCHAR2(30) NULL,
        EstimatedMark        VARCHAR2(1) NULL,
        UserID               VARCHAR2(10) NULL,
        RecDate              DATE NULL
);

CREATE UNIQUE INDEX XPKBasePeriodFile ON BasePeriodFile
(
        ISIC,
        Year,
        Month,
        RegistrationNo,
        ItemType,
        CommodityCode,
        SurveyScope,
        Version
);


CREATE TABLE BatchControl (
        Year                 NUMBER NOT NULL,
        Month                NUMBER NOT NULL,
        Pre_EstimatedDate    DATE NULL,
        PreliminaryDate      DATE NULL,
        PreliminaryStatus    VARCHAR2(1) NULL,
        Rev_EstimatedDate    DATE NULL,
        RevisedDate          DATE NULL,
        RevisedStatus        VARCHAR2(1) NULL,
        Year_EstimatedDate   DATE NULL,
        YearlyDate           DATE NULL,
        YearlyStatus         VARCHAR2(1) NULL
);

CREATE UNIQUE INDEX XPKBatchControl ON BatchControl
(
        Year,
        Month
);


CREATE TABLE BizCondition (
        BizLevel             VARCHAR2(1) NOT NULL,
        Condition            VARCHAR2(20) NULL
);

CREATE UNIQUE INDEX XPKBizCondition ON BizCondition
(
        BizLevel
);


CREATE TABLE ClassMaster (
        ISIC                 VARCHAR2(8) NOT NULL,
        IndustryType         VARCHAR2(100) NULL,
        IndustryTypeShortName VARCHAR2(20) NULL,
        DivCode              VARCHAR2(2) NULL,
        IssueDate            DATE NULL,
        ExpiredDate          DATE NULL
);
```

```
CREATE UNIQUE INDEX XPKClassMaster ON ClassMaster
(
        ISIC
);


CREATE TABLE CollectionRate (
        Seq                     SMALLINT NOT NULL,
        ISIC                    VARCHAR2(8) NOT NULL,
        RegistrationNo          VARCHAR2(20) NOT NULL,
        EstablishmentName       VARCHAR2(100) NULL,
        Tel                     VARCHAR2(255) NULL,
        Fax                     VARCHAR2(80) NULL,
        Respondent              VARCHAR2(255) NULL,
        Year                    NUMBER NULL,
        Month                   NUMBER NULL
);

CREATE UNIQUE INDEX XPKCollectionRate ON CollectionRate
(
        Seq,
        ISIC,
        RegistrationNo
);


CREATE TABLE CommodityMaster (
        ISIC                    VARCHAR2(8) NOT NULL,
        ItemType                VARCHAR2(1) NOT NULL,
        CommodityCode           VARCHAR2(3) NOT NULL,
        UnitCode                VARCHAR2(2) NULL,
        CommodityName           VARCHAR2(100) NULL,
        CommodityShortName      VARCHAR2(20) NULL,
        CapacityCode            VARCHAR2(3) NULL,
        IndexScopePR1           VARCHAR2(1) NULL,
        IndexScopeSP2           VARCHAR2(1) NULL,
        IndexScopeIV3           VARCHAR2(1) NULL,
        IndexScopeIR4           VARCHAR2(1) NULL,
        IndexScopeCU5           VARCHAR2(1) NULL,
        IndexScopeLP6           VARCHAR2(1) NULL,
        IndexScopeLI7           VARCHAR2(1) NULL,
        IndexScopeRI8           VARCHAR2(1) NULL,
        SortNo                  SMALLINT NULL,
        DivCode                 VARCHAR2(2) NULL,
        IssueDate               DATE NULL,
        ExpiredDate             DATE NULL
);

CREATE UNIQUE INDEX XPKCommodityMaster ON CommodityMaster
(
        ISIC,
        ItemType,
        CommodityCode
);


CREATE TABLE ContributionForAll1 (
        ISIC                    VARCHAR2(8) NOT NULL,
        Year                    NUMBER NOT NULL,
        Month                   NUMBER NOT NULL,
        SurveyScope             VARCHAR2(1) NOT NULL,
        Pre_Rev_Mark            VARCHAR2(1) NOT NULL,
        ComparisonTarget        VARCHAR2(1) NOT NULL,
        Seq                     SMALLINT NOT NULL,
        CD_PR1                  NUMBER NULL,
        CD_SP2                  NUMBER NULL,
        CD_IV3                  NUMBER NULL,
        CD_IR4                  NUMBER NULL,
        CD_CU5                  NUMBER NULL,
        CD_LP6                  NUMBER NULL,
        CD_LI7                  NUMBER NULL,
        CD_RI8                  NUMBER NULL,
        CR_PR1                  NUMBER NULL,
        CR_SP2                  NUMBER NULL,
        CR_IV3                  NUMBER NULL,
        CR_IR4                  NUMBER NULL,
        CR_CU5                  NUMBER NULL,
```

```
        CR_LP6                  NUMBER NULL,
        CR_LI7                  NUMBER NULL,
        CR_RI8                  NUMBER NULL
);

CREATE UNIQUE INDEX XPKContributionForAll1 ON ContributionForAll1
(
        ISIC,
        Year,
        Month,
        SurveyScope,
        Pre_Rev_Mark,
        ComparisonTarget,
        Seq
);


CREATE TABLE ContributionForAll2 (
        ISIC                    VARCHAR2(8) NOT NULL,
        ItemType                VARCHAR2(1) NOT NULL,
        CommodityCode           VARCHAR2(3) NOT NULL,
        Year                    NUMBER NOT NULL,
        Month                   NUMBER NOT NULL,
        SurveyScope             VARCHAR2(1) NOT NULL,
        Pre_Rev_Mark            VARCHAR2(1) NOT NULL,
        ComparisonTarget        VARCHAR2(1) NOT NULL,
        Seq                     SMALLINT NOT NULL,
        CD_PR1                  NUMBER NULL,
        CD_SP2                  NUMBER NULL,
        CD_IV3                  NUMBER NULL,
        CD_IR4                  NUMBER NULL,
        CD_CU5                  NUMBER NULL,
        CD_LP6                  NUMBER NULL,
        CD_LI7                  NUMBER NULL,
        CD_RI8                  NUMBER NULL,
        CR_PR1                  NUMBER NULL,
        CR_SP2                  NUMBER NULL,
        CR_IV3                  NUMBER NULL,
        CR_IR4                  NUMBER NULL,
        CR_CU5                  NUMBER NULL,
        CR_LP6                  NUMBER NULL,
        CR_LI7                  NUMBER NULL,
        CR_RI8                  NUMBER NULL
);

CREATE UNIQUE INDEX XPKContributionForAll2 ON ContributionForAll2
(
        ISIC,
        ItemType,
        CommodityCode,
        Year,
        Month,
        SurveyScope,
        Pre_Rev_Mark,
        ComparisonTarget,
        Seq
);


CREATE TABLE ContributionForCommodity (
        ISIC                    VARCHAR2(8) NOT NULL,
        ItemType                VARCHAR2(1) NOT NULL,
        CommodityCode           VARCHAR2(3) NOT NULL,
        RegistrationNo          VARCHAR2(20) NOT NULL,
        Year                    NUMBER NOT NULL,
        Month                   NUMBER NOT NULL,
        SurveyScope             VARCHAR2(1) NOT NULL,
        Pre_Rev_Mark            VARCHAR2(1) NOT NULL,
        ComparisonTarget        VARCHAR2(1) NOT NULL,
        Seq                     SMALLINT NOT NULL,
        CR_Production           NUMBER NULL,
        CR_ShipmentQty          NUMBER NULL,
        CR_MEInventory          NUMBER NULL,
        CR_ShipmentVal          NUMBER NULL,
        CR_RawMaterial          NUMBER NULL,
        CR_Capacity             NUMBER NULL
);
```

```
CREATE UNIQUE INDEX XPKContrbutionForCommodity ON ContributionForCommodity
(
        ISIC,
        ItemType,
        CommodityCode,
        RegistrationNo,
        Year,
        Month,
        SurveyScope,
        Pre_Rev_Mark,
        ComparisonTarget,
        Seq
);

CREATE TABLE ContributionForIndustry (
        ISIC                    VARCHAR2(8) NOT NULL,
        ItemType                VARCHAR2(1) NOT NULL,
        CommodityCode           VARCHAR2(3) NOT NULL,
        Year                    NUMBER NOT NULL,
        Month                   NUMBER NOT NULL,
        SurveyScope             VARCHAR2(1) NOT NULL,
        Pre_Rev_Mark            VARCHAR2(1) NOT NULL,
        ComparisonTarget        VARCHAR2(1) NOT NULL,
        Seq                     SMALLINT NOT NULL,
        CD_PR1                  NUMBER NULL,
        CD_SP2                  NUMBER NULL,
        CD_IV3                  NUMBER NULL,
        CD_IR4                  NUMBER NULL,
        CD_CU5                  NUMBER NULL,
        CD_LP6                  NUMBER NULL,
        CD_LI7                  NUMBER NULL,
        CD_RI8                  NUMBER NULL,
        CR_PR1                  NUMBER NULL,
        CR_SP2                  NUMBER NULL,
        CR_IV3                  NUMBER NULL,
        CR_IR4                  NUMBER NULL,
        CR_CU5                  NUMBER NULL,
        CR_LP6                  NUMBER NULL,
        CR_LI7                  NUMBER NULL,
        CR_RI8                  NUMBER NULL
);

CREATE UNIQUE INDEX XPKContributionForQuestionnair ON ContributionForIndustry
(
        ISIC,
        ItemType,
        CommodityCode,
        Year,
        Month,
        SurveyScope,
        Pre_Rev_Mark,
        ComparisonTarget,
        Seq
);

CREATE TABLE CPMYRawEst (
        Seq                     NUMBER NOT NULL,
        ISIC                    VARCHAR2(8) NOT NULL,
        Year                    NUMBER NOT NULL,
        Month                   NUMBER NOT NULL,
        RegistrationNo          VARCHAR2(20) NOT NULL,
        OutputCnt               NUMBER NOT NULL,
        IndustryTypeShortName VARCHAR2(20) NULL,
        EstablishmentName       VARCHAR2(100) NULL,
        ContinuousRespondent VARCHAR2(1) NULL,
        CommodityCodeWk         VARCHAR2(30) NULL,
        DataTypeWk              VARCHAR2(20) NULL,
        QuestionnaireWk1        VARCHAR2(20) NULL,
        QuestionnaireWk2        VARCHAR2(20) NULL,
        QuestionnaireWk3        VARCHAR2(20) NULL,
        QuestionnaireWk4        VARCHAR2(20) NULL,
        QuestionnaireWk5        VARCHAR2(20) NULL,
        QuestionnaireWk6        VARCHAR2(20) NULL,
        QuestionnaireWk7        VARCHAR2(20) NULL
```

```
);

CREATE UNIQUE INDEX XPKCPMYRawEst ON CPMYRawEst
(
        Seq,
        ISIC,
        Year,
        Month,
        RegistrationNo,
        OutputCnt
);


CREATE TABLE CPMYRawISIC (
        Seq                     NUMBER NOT NULL,
        SurveyScope             VARCHAR2(1) NOT NULL,
        ISIC                    VARCHAR2(8) NOT NULL,
        Year                    NUMBER NOT NULL,
        Month                   NUMBER NOT NULL,
        OutputCnt               NUMBER NOT NULL,
        IndustryTypeShortName VARCHAR2(20) NULL,
        CommodityCodeWk         VARCHAR2(30) NULL,
        DataTypeWk              VARCHAR2(20) NULL,
        QuestionnaireWk1        VARCHAR2(20) NULL,
        QuestionnaireWk2        VARCHAR2(20) NULL,
        QuestionnaireWk3        VARCHAR2(20) NULL,
        QuestionnaireWk4        VARCHAR2(20) NULL,
        QuestionnaireWk5        VARCHAR2(20) NULL,
        QuestionnaireWk6        VARCHAR2(20) NULL,
        QuestionnaireWk7        VARCHAR2(20) NULL
);

CREATE UNIQUE INDEX XPKCPMYRawISIC ON CPMYRawISIC
(
        Seq,
        SurveyScope,
        ISIC,
        Year,
        Month,
        OutputCnt
);


CREATE TABLE DeflatorMaster (
        ISIC                    VARCHAR2(8) NOT NULL,
        ItemType                VARCHAR2(1) NOT NULL,
        CommodityCode           VARCHAR2(3) NOT NULL,
        Year                    NUMBER NOT NULL,
        Month                   NUMBER NOT NULL,
        SurveyScope             VARCHAR2(1) NOT NULL,
        Version                 VARCHAR2(1) NOT NULL,
        ProductionQty           NUMBER NULL
                                        CONSTRAINT DeflatorItem
                                                CHECK (ProductionQty > 0),
        ShipmentQTY             NUMBER NULL
                                        CONSTRAINT DeflatorItem2
                                                CHECK (ShipmentQTY > 0),
        ME_Inventory            NUMBER NULL
                                        CONSTRAINT DeflatorItem3
                                                CHECK (ME_Inventory > 0),
        Capacity                NUMBER NULL
                                        CONSTRAINT DeflatorItem4
                                                CHECK (Capacity > 0),
        RwMt_MEInventory        NUMBER NULL
                                        CONSTRAINT DeflatorItem5
                                                CHECK (RwMt_MEInventory > 0)
);

CREATE UNIQUE INDEX XPKDeflatorMaster ON DeflatorMaster
(
        ISIC,
        ItemType,
        CommodityCode,
        Year,
        Month,
        SurveyScope,
        Version
```

```
);

CREATE TABLE DeviationRangeMaster (
        ISIC                    VARCHAR2(8) NOT NULL,
        DR_ComparePreMonth      NUMBER NULL,
        DR_ComparePreYear       NUMBER NULL,
        DR_UnitPrice            NUMBER NULL,
        DR_LaborInput           NUMBER NULL,
        DR_LaborHour            NUMBER NULL,
        DR_LaborDays            NUMBER NULL
);

CREATE UNIQUE INDEX XPKDeviationRangeMaster ON DeviationRangeMaster
(
        ISIC
);


CREATE TABLE ErrorLog (
        ISIC                    VARCHAR2(8) NOT NULL,
        Year                    NUMBER NOT NULL,
        Month                   NUMBER NOT NULL,
        RegistrationNo          VARCHAR2(20) NOT NULL,
        ItemType                VARCHAR2(1) NOT NULL,
        CommodityCode           VARCHAR2(3) NOT NULL,
        MessageCode             VARCHAR2(3) NOT NULL
);

CREATE UNIQUE INDEX XPKErrorLog ON ErrorLog
(
        ISIC,
        Year,
        Month,
        RegistrationNo,
        ItemType,
        CommodityCode,
        MessageCode
);


CREATE TABLE EstablishmentMaster (
        ISIC                    VARCHAR2(8) NOT NULL,
        RegistrationNo          VARCHAR2(20) NOT NULL,
        EstablishmentName       VARCHAR2(100) NULL,
        EstablishmentTel        VARCHAR2(255) NULL,
        EstablishmentFax        VARCHAR2(80) NULL,
        EstablishmentAdd        VARCHAR2(100) NULL,
        Moo                     NUMBER NULL,
        Soi                     VARCHAR2(80) NULL,
        Road                    VARCHAR2(80) NULL,
        Tumbol                  VARCHAR2(80) NULL,
        Ampur                   VARCHAR2(80) NULL,
        Province                VARCHAR2(80) NULL,
        PostalCode              NUMBER NULL,
        CompanyName             VARCHAR2(100) NULL,
        CompanyTel              VARCHAR2(80) NULL,
        CompanyFax              VARCHAR2(80) NULL,
        CompanyAdd              VARCHAR2(100) NULL,
        NameofRespondent        VARCHAR2(255) NULL,
        EstimationCode          VARCHAR2(1) NULL,
        SurveyScope             VARCHAR2(1) NULL,
        ContinuousRespondent    VARCHAR2(1) NULL,
        DivCode                 VARCHAR2(2) NULL,
        IssueDate               DATE NULL,
        ExpiredDate             DATE NULL
);

CREATE UNIQUE INDEX XPKEstablishmentMaster ON EstablishmentMaster
(
        ISIC,
        RegistrationNo
);


CREATE TABLE GrowthRate (
        AggregationRange        VARCHAR2(1) NOT NULL,
```

```
        ISIC                    VARCHAR2(8) NOT NULL,
        ItemType                VARCHAR2(1) NOT NULL,
        IndexCommodityCode      VARCHAR2(3) NOT NULL,
        Year                    NUMBER NOT NULL,
        Month                   NUMBER NOT NULL,
        SurveyScope             VARCHAR2(1) NOT NULL,
        Pre_Rev_Mark            VARCHAR2(1) NOT NULL,
        ComparisonTarget        VARCHAR2(1) NOT NULL,
        GR_PR1                  NUMBER NULL,
        GR_SP2                  NUMBER NULL,
        GR_IV3                  NUMBER NULL,
        GR_IR4                  NUMBER NULL,
        GR_CU5                  NUMBER NULL,
        GR_LP6                  NUMBER NULL,
        GR_LI7                  NUMBER NULL,
        GR_RI8                  NUMBER NULL,
        GR_InventoryQTY_IR      NUMBER NULL,
        GR_ShipmentQTY_IR       NUMBER NULL,
        GR_ProductionVal_LP     NUMBER NULL,
        GR_ManHour_LP           NUMBER NULL,
        GR_ProductionQTY_CU     NUMBER NULL,
        GR_Capacity_CU          NUMBER NULL
);

CREATE UNIQUE INDEX XPKGrowthRate ON GrowthRate
(
        AggregationRange,
        ISIC,
        ItemType,
        IndexCommodityCode,
        Year,
        Month,
        SurveyScope,
        Pre_Rev_Mark,
        ComparisonTarget
);


CREATE TABLE GrowthRateForEstimation (
        ISIC                    VARCHAR2(8) NOT NULL,
        ItemType                VARCHAR2(1) NOT NULL,
        CommodityCode           VARCHAR2(3) NOT NULL,
        BM_Inventory            NUMBER NULL,
        ProductionQTY           NUMBER NULL,
        Receipts                NUMBER NULL,
        DomesticSales           NUMBER NULL,
        Export                  NUMBER NULL,
        OtherSales              NUMBER NULL,
        ME_Inventory            NUMBER NULL,
        Capacity                NUMBER NULL,
        ShipmentValue           NUMBER NULL,
        SalesPlan               NUMBER NULL,
        LaborTotal              NUMBER NULL,
        Labor_SC                NUMBER NULL,
        RwMt_MEInventory        NUMBER NULL,
        RwMt_MEInventoryValue NUMBER NULL,
        UnitPrice               NUMBER NULL
);

CREATE UNIQUE INDEX XPKGrowthRateForEstimation ON GrowthRateForEstimation
(
        ISIC,
        ItemType,
        CommodityCode
);


CREATE TABLE GrowthRateQTY (
        ISIC                    VARCHAR2(8) NOT NULL,
        ItemType                VARCHAR2(1) NOT NULL,
        CommodityCode           VARCHAR2(3) NOT NULL,
        Year                    NUMBER NOT NULL,
        Month                   NUMBER NOT NULL,
        SurveyScope             VARCHAR2(1) NOT NULL,
        Pre_Rev_Mark            VARCHAR2(1) NOT NULL,
        ComparisonTarget        VARCHAR2(1) NOT NULL,
        Seq                     SMALLINT NOT NULL,
```

```
        GR_Production          NUMBER NULL,
        GR_ShipmentQty         NUMBER NULL,
        GR_MEInventory         NUMBER NULL,
        GR_ShipmentVal         NUMBER NULL,
        GR_RawMaterial         NUMBER NULL
);

CREATE UNIQUE INDEX XPKGrowthRateQTY ON GrowthRateQTY
(
        ISIC,
        ItemType,
        CommodityCode,
        Year,
        Month,
        SurveyScope,
        Pre_Rev_Mark,
        ComparisonTarget,
        Seq
);


CREATE TABLE Index_Wk (
        AggregationRange       VARCHAR2(1) NOT NULL,
        ISIC                   VARCHAR2(8) NOT NULL,
        ItemType               VARCHAR2(1) NOT NULL,
        IndexCommodityCode     VARCHAR2(3) NOT NULL,
        Year                   NUMBER NOT NULL,
        Month                  NUMBER NOT NULL,
        SurveyScope            VARCHAR2(1) NOT NULL,
        Pre_Rev_Mark           VARCHAR2(1) NOT NULL,
        IndexPR1               NUMBER NULL,
        IndexSP2               NUMBER NULL,
        IndexIV3               NUMBER NULL,
        IndexIR4               NUMBER NULL,
        IndexCU5               NUMBER NULL,
        IndexLP6               NUMBER NULL,
        IndexLI7               NUMBER NULL,
        IndexRI8               NUMBER NULL
);

CREATE UNIQUE INDEX XPKIndex_Wk ON Index_Wk
(
        AggregationRange,
        ISIC,
        ItemType,
        IndexCommodityCode,
        Year,
        Month,
        SurveyScope,
        Pre_Rev_Mark
);


CREATE TABLE IndexList (
        Seq                    NUMBER NOT NULL,
        ReportType             VARCHAR2(1) NOT NULL,
        IndexType              VARCHAR2(1) NOT NULL,
        Year                   NUMBER NOT NULL,
        Month                  NUMBER NOT NULL,
        ISIC                   VARCHAR2(8) NOT NULL,
        CommodityCode          VARCHAR2(3) NOT NULL,
        IndustryTypeShortName VARCHAR2(20) NULL,
        CommodityShortName     VARCHAR2(20) NULL,
        IndexCM                NUMBER NULL,
        IndexPM                NUMBER NULL,
        IndexPY                NUMBER NULL,
        GR_CPM                 NUMBER NULL,
        GR_CPY                 NUMBER NULL,
        CD_CPM                 NUMBER NULL,
        CD_CPY                 NUMBER NULL,
        CR_CPM                 NUMBER NULL,
        CR_CPY                 NUMBER NULL,
        SumIndexCM             NUMBER NULL,
        SumIndexPM             NUMBER NULL,
        SumIndexPY             NUMBER NULL,
        SumGR_CPM              NUMBER NULL,
        SumGR_CPY              NUMBER NULL,
```

```
        SumCD_CPM               NUMBER NULL,
        SumCD_CPY               NUMBER NULL,
        SumCR_CPM               NUMBER NULL,
        SumCR_CPY               NUMBER NULL
);

CREATE UNIQUE INDEX PK_IndexList ON IndexList
(
        Seq,
        ReportType,
        IndexType,
        Year,
        Month,
        ISIC,
        CommodityCode
);


CREATE TABLE Indices (
        AggregationRange        VARCHAR2(1) NOT NULL,
        ISIC                    VARCHAR2(8) NOT NULL,
        ItemType                VARCHAR2(1) NOT NULL,
        IndexCommodityCode      VARCHAR2(3) NOT NULL,
        Year                    NUMBER NOT NULL,
        Month                   NUMBER NOT NULL,
        SurveyScope             VARCHAR2(1) NOT NULL,
        Pre_Rev_Mark            VARCHAR2(1) NOT NULL,
        IndexPR1                NUMBER NULL,
        IndexSP2                NUMBER NULL,
        IndexIV3                NUMBER NULL,
        IndexIR4                NUMBER NULL,
        IndexCU5                NUMBER NULL,
        IndexLP6                NUMBER NULL,
        IndexLI7                NUMBER NULL,
        IndexRI8                NUMBER NULL,
        RecDate                 DATE NULL
);

CREATE UNIQUE INDEX XPKIndicies ON Indices
(
        AggregationRange,
        ISIC,
        ItemType,
        IndexCommodityCode,
        Year,
        Month,
        SurveyScope,
        Pre_Rev_Mark
);


CREATE TABLE LinkMaster (
        ISIC                    VARCHAR2(8) NOT NULL,
        ItemType                VARCHAR2(1) NOT NULL,
        CommodityCode           VARCHAR2(3) NOT NULL,
        Year                    NUMBER NOT NULL,
        Month                   NUMBER NOT NULL,
        SurveyScope             VARCHAR2(1) NOT NULL,
        Version                 VARCHAR2(1) NOT NULL,
        ProductionQTY           NUMBER NULL,
        ShipmentQTY             NUMBER NULL,
        ME_Inventory            NUMBER NULL,
        Capacity                NUMBER NULL,
        ShipmentValue           NUMBER NULL,
        Worker                  NUMBER NULL,
        WorkingHour             NUMBER NULL,
        WorkingDay              NUMBER NULL,
        RwMt_MEInventory        NUMBER NULL
);

CREATE UNIQUE INDEX XPKLinkMaster ON LinkMaster
(
        ISIC,
        ItemType,
        CommodityCode,
        Year,
        Month,
```

```
        SurveyScope,
        Version
);


CREATE TABLE MessageMaster (
        MessageCode             VARCHAR2(3) NOT NULL,
        Message                 VARCHAR2(200) NULL
);

CREATE UNIQUE INDEX XPKMessageMaster ON MessageMaster
(
        MessageCode
);


CREATE TABLE MonthMaster (
        Month                   VARCHAR2(2) NOT NULL,
        MonthName               VARCHAR2(15) NULL
);

CREATE UNIQUE INDEX XPKMonthMaster ON MonthMaster
(
        Month
);


CREATE TABLE PastRecord (
        ISIC                    VARCHAR2(8) NOT NULL,
        Year                    NUMBER NOT NULL,
        Month                   NUMBER NOT NULL,
        RegistrationNo          VARCHAR2(20) NOT NULL,
        ItemType                VARCHAR2(1) NOT NULL,
        CommodityCode           VARCHAR2(3) NOT NULL,
        Pre_Rev_Mark            VARCHAR2(1) NOT NULL,
        BM_Inventory            NUMBER NULL,
        Atrbt_BM_Inventory      VARCHAR2(1) NULL,
        ProductionQTY           NUMBER NULL,
        Atrbt_ProductionQTY     VARCHAR2(1) NULL,
        Receipts                NUMBER NULL,
        Atrbt_Receipts          VARCHAR2(1) NULL,
        DomesticSales           NUMBER NULL,
        Atrbt_DomesticSales     VARCHAR2(1) NULL,
        Export                  NUMBER NULL,
        Atrbt_Export            VARCHAR2(1) NULL,
        OtherSales              NUMBER NULL,
        Atrbt_OtherSales        VARCHAR2(1) NULL,
        ME_Inventory            NUMBER NULL,
        Atrbt_ME_Inventory      VARCHAR2(1) NULL,
        Capacity                NUMBER NULL,
        Atrbt_Capacity          VARCHAR2(1) NULL,
        ShipmentValue           NUMBER NULL,
        Atrbt_ShipmentValue     VARCHAR2(1) NULL,
        SalesPlan               NUMBER NULL,
        Atrbt_SalesPlan         VARCHAR2(1) NULL,
        LaborTotal              NUMBER NULL,
        Atrbt_LaborTotal        VARCHAR2(1) NULL,
        Labor_SC                NUMBER NULL,
        Atrbt_Labor_SC          VARCHAR2(1) NULL,
        RwMt_MEInventory        NUMBER NULL,
        Atrbt_RwMt_MEInventory VARCHAR2(1) NULL,
        RwMt_MEInventoryValue NUMBER NULL,
        Atrbt_RwMt_MEInventoryValue VARCHAR2(1) NULL,
        BizCondition            NUMBER NULL,
        UnitPrice               NUMBER NULL,
        Remarks                 VARCHAR2(30) NULL,
        EstimatedMark           VARCHAR2(1) NULL,
        UserID                  VARCHAR2(10) NULL,
        RecDate                 DATE NULL
);

CREATE UNIQUE INDEX XPKPastRecord ON PastRecord
(
        ISIC,
        Year,
        Month,
        RegistrationNo,
```

```
        ItemType,
        CommodityCode,
        Pre_Rev_Mark
);


CREATE TABLE SeasonalAdjustedIndices (
        AggregationRange        VARCHAR2(1) NOT NULL,
        ISIC                    VARCHAR2(8) NOT NULL,
        ItemType                VARCHAR2(1) NOT NULL,
        IndexCommodityCode      VARCHAR2(3) NOT NULL,
        Year                    NUMBER NOT NULL,
        Month                   NUMBER NOT NULL,
        SurveyScope             VARCHAR2(1) NOT NULL,
        Pre_Rev_Mark            VARCHAR2(1) NOT NULL,
        IndexPR1                NUMBER NULL,
        IndexSP2                NUMBER NULL,
        IndexIV3                NUMBER NULL,
        IndexIR4                NUMBER NULL,
        IndexCU5                NUMBER NULL,
        IndexLP6                NUMBER NULL,
        IndexLI7                NUMBER NULL,
        IndexRI8                NUMBER NULL,
        RecDate                 DATE NULL
);

CREATE UNIQUE INDEX XPKSeasonalAdjustedIndices ON SeasonalAdjustedIndices
(
        AggregationRange,
        ISIC,
        ItemType,
        IndexCommodityCode,
        Year,
        Month,
        SurveyScope,
        Pre_Rev_Mark
);


CREATE TABLE SeasonalAdjustmentMaster (
        AggregationRange        VARCHAR2(1) NOT NULL,
        ISIC                    VARCHAR2(8) NOT NULL,
        ItemType                VARCHAR2(1) NOT NULL,
        IndexCommodityCode      VARCHAR2(3) NOT NULL,
        Year                    NUMBER NOT NULL,
        Month                   NUMBER NOT NULL,
        SurveyScope             VARCHAR2(1) NOT NULL,
        Version                 VARCHAR2(1) NOT NULL,
        IndexPR1                NUMBER NULL,
        IndexSP2                NUMBER NULL,
        IndexIV3                NUMBER NULL,
        IndexIR4                NUMBER NULL,
        IndexCU5                NUMBER NULL,
        IndexLP6                NUMBER NULL,
        IndexLI7                NUMBER NULL,
        IndexRI8                NUMBER NULL
);

CREATE UNIQUE INDEX XPKSeasonalAdjustmentMaster ON SeasonalAdjustmentMaster
(
        AggregationRange,
        ISIC,
        ItemType,
        IndexCommodityCode,
        Year,
        Month,
        SurveyScope,
        Version
);


CREATE TABLE SeqControl (
        OutputID                VARCHAR2(2) NOT NULL,
        SeqMax                  SMALLINT DEFAULT 0 NULL
);

CREATE UNIQUE INDEX XPKSeqControl ON SeqControl
```

```
(
        OutputID
);


CREATE TABLE SurveyData (
        ISIC                    VARCHAR2(8) NOT NULL,
        Year                    NUMBER NOT NULL,
        Month                   NUMBER NOT NULL,
        RegistrationNo          VARCHAR2(20) NOT NULL,
        ItemType                VARCHAR2(1) NOT NULL,
        CommodityCode           VARCHAR2(3) NOT NULL,
        BM_Inventory            NUMBER NULL,
        Atrbt_BM_Inventory      VARCHAR2(1) DEFAULT 'U' NULL,
        ProductionQTY           NUMBER NULL,
        Atrbt_ProductionQTY     VARCHAR2(1) DEFAULT 'U' NULL,
        Receipts                NUMBER NULL,
        Atrbt_Receipts          VARCHAR2(1) DEFAULT 'U' NULL,
        DomesticSales           NUMBER NULL,
        Atrbt_DomesticSales     VARCHAR2(1) DEFAULT 'U' NULL,
        Export                  NUMBER NULL,
        Atrbt_Export            VARCHAR2(1) DEFAULT 'U' NULL,
        OtherSales              NUMBER NULL,
        Atrbt_OtherSales        VARCHAR2(1) DEFAULT 'U' NULL,
        ME_Inventory            NUMBER NULL,
        Atrbt_ME_Inventory      VARCHAR2(1) DEFAULT 'U' NULL,
        Capacity                NUMBER NULL,
        Atrbt_Capacity          VARCHAR2(1) DEFAULT 'U' NULL,
        ShipmentValue           NUMBER NULL,
        Atrbt_ShipmentValue     VARCHAR2(1) DEFAULT 'U' NULL,
        SalesPlan               NUMBER NULL,
        Atrbt_SalesPlan         VARCHAR2(1) DEFAULT 'U' NULL,
        LaborTotal              NUMBER NULL,
        Atrbt_LaborTotal        VARCHAR2(1) DEFAULT 'U' NULL,
        Labor_SC                NUMBER NULL,
        Atrbt_Labor_SC          VARCHAR2(1) DEFAULT 'U' NULL,
        RwMt_MEInventory        NUMBER NULL,
        Atrbt_RwMt_MEInventory VARCHAR2(1) DEFAULT 'U' NULL,
        RwMt_MEInventoryValue NUMBER NULL,
        Atrbt_RwMt_MEInventoryValue VARCHAR2(1) DEFAULT 'U' NULL,
        BizCondition            VARCHAR2(1) NULL,
        UnitPrice               NUMBER NULL,
        Remarks                 VARCHAR2(30) NULL,
        UserID                  VARCHAR2(10) NULL,
        RecDate                 DATE NULL
);

CREATE UNIQUE INDEX XPKSurveyData ON SurveyData
(
        ISIC,
        Year,
        Month,
        RegistrationNo,
        ItemType,
        CommodityCode
);


CREATE TABLE SurveyHeader (
        ISIC                    VARCHAR2(8) NOT NULL,
        Year                    NUMBER NOT NULL,
        Month                   NUMBER NOT NULL,
        RegistrationNo          VARCHAR2(20) NOT NULL,
        EstimatedMark           VARCHAR2(1) DEFAULT 0 NULL,
        RevisedStatus           VARCHAR2(1) NULL,
        YearlyStatus            VARCHAR2(1) DEFAULT 0 NULL
);

CREATE UNIQUE INDEX XPKSurveyHeader ON SurveyHeader
(
        ISIC,
        Year,
        Month,
        RegistrationNo
);
```

```
CREATE TABLE SurveyScopeMaster (
        SurveyScope             VARCHAR2(1) NOT NULL,
        ScopeShortName          VARCHAR2(25) NULL,
        ScopeName               VARCHAR2(100) NULL
);

CREATE UNIQUE INDEX XPKSurveyScope ON SurveyScopeMaster
(
        SurveyScope
);


CREATE TABLE TimeFigures (
        Seq                     NUMBER NOT NULL,
        FigureType              VARCHAR2(1) NOT NULL,
        ReportType              VARCHAR2(1) NOT NULL,
        Year                    NUMBER NOT NULL,
        ISIC                    VARCHAR2(8) NOT NULL,
        CommodityCode           VARCHAR2(3) NOT NULL,
        IndustryTypeShortName VARCHAR2(20) NULL,
        CommodityShortName      VARCHAR2(20) NULL,
        UnitName                VARCHAR2(50) NULL,
        PYA                     NUMBER NULL,
        PYT                     NUMBER NULL,
        CYT                     NUMBER NULL,
        CYM01                   NUMBER NULL,
        CYM02                   NUMBER NULL,
        CYM03                   NUMBER NULL,
        CYM04                   NUMBER NULL,
        CYM05                   NUMBER NULL,
        CYM06                   NUMBER NULL,
        CYM07                   NUMBER NULL,
        CYM08                   NUMBER NULL,
        CYM09                   NUMBER NULL,
        CYM10                   NUMBER NULL,
        CYM11                   NUMBER NULL,
        CYM12                   NUMBER NULL,
        PY2T                    NUMBER NULL,
        PYM01                   NUMBER NULL,
        PYM02                   NUMBER NULL,
        PYM03                   NUMBER NULL,
        PYM04                   NUMBER NULL,
        PYM05                   NUMBER NULL,
        PYM06                   NUMBER NULL,
        PYM07                   NUMBER NULL,
        PYM08                   NUMBER NULL,
        PYM09                   NUMBER NULL,
        PYM10                   NUMBER NULL,
        PYM11                   NUMBER NULL,
        PYM12                   NUMBER NULL
);

CREATE UNIQUE INDEX PK_TimeFigures ON TimeFigures
(
        Seq,
        FigureType,
        ReportType,
        Year,
        ISIC,
        CommodityCode
);


CREATE TABLE UnitMaster (
        UnitCode                VARCHAR2(2) NOT NULL,
        UnitName                VARCHAR2(50) NULL,
        ThaiUnitName            VARCHAR2(50) NULL
);

CREATE UNIQUE INDEX XPKUnitMaster ON UnitMaster
(
        UnitCode
);


CREATE TABLE UserIDMaster (
        UserID                  VARCHAR2(10) NOT NULL,
```

```
        Password                VARCHAR2(10) NULL,
        UserName                VARCHAR2(40) NULL,
        Section                 VARCHAR2(20) NULL,
        Jurisdiction            VARCHAR2(2) NULL
);

CREATE UNIQUE INDEX XPKUseIdMaster ON UserIDMaster
(
        UserID
);


CREATE TABLE WarningLog (
        ISIC                    VARCHAR2(8) NOT NULL,
        Year                    NUMBER NOT NULL,
        Month                   NUMBER NOT NULL,
        RegistrationNo          VARCHAR2(20) NOT NULL,
        ItemType                VARCHAR2(1) NOT NULL,
        CommodityCode           VARCHAR2(3) NOT NULL,
        MessageCode             VARCHAR2(3) NOT NULL
);

CREATE UNIQUE INDEX XPKWarningLog ON WarningLog
(
        ISIC,
        Year,
        Month,
        RegistrationNo,
        ItemType,
        CommodityCode,
        MessageCode
);


CREATE TABLE WeightAggregation (
        AggregationRange        VARCHAR2(1) NOT NULL,
        ISIC                    VARCHAR2(8) NOT NULL,
        ItemType                VARCHAR2(1) NOT NULL,
        CommodityCode           VARCHAR2(3) NOT NULL,
        SurveyScope             VARCHAR2(1) NOT NULL,
        Version                 VARCHAR2(1) NOT NULL,
        WeightPR1               NUMBER NULL,
        WeightSP2               NUMBER NULL,
        WeightIV3               NUMBER NULL,
        WeightIR4               NUMBER NULL,
        WeightCU5               NUMBER NULL,
        WeightLP6               NUMBER NULL,
        WeightLI7               NUMBER NULL,
        WeightRI8               NUMBER NULL,
        IntegratedKey           VARCHAR2(8) NULL
);

CREATE UNIQUE INDEX XPKWeightAggregation ON WeightAggregation
(
        AggregationRange,
        ISIC,
        ItemType,
        CommodityCode,
        SurveyScope,
        Version
);


CREATE TABLE WeightMaster (
        ISIC                    VARCHAR2(8) NOT NULL,
        ItemType                VARCHAR2(1) NOT NULL,
        CommodityCode           VARCHAR2(3) NOT NULL,
        SurveyScope             VARCHAR2(1) NOT NULL,
        Version                 VARCHAR2(1) NOT NULL,
        WeightPR                NUMBER NULL,
        WeightSP                NUMBER NULL,
        WeightIV                NUMBER NULL
);

CREATE UNIQUE INDEX XPKWeightMaster ON WeightMaster
(
        ISIC,
```

```
        ItemType,
        CommodityCode,
        SurveyScope,
        Version
);
```

```
drop view VW_PastRecordFG;

create view VW_PastRecordFG
as
select  a.ISIC,
  a.Year,
  a.Month,
  a.RegistrationNo,
  a.CommodityCode,
  a.Pre_Rev_Mark,
  a.BM_Inventory,
  a.Atrbt_BM_Inventory,
  a.ProductionQTY,
  a.Atrbt_ProductionQTY,
  a.Receipts,
  a.Atrbt_Receipts,
  a.DomesticSales,
  a.Atrbt_DomesticSales,
  a.Export,
  a.Atrbt_Export,
  a.OtherSales,
  a.Atrbt_OtherSales,
  a.ME_Inventory,
  a.Atrbt_ME_Inventory,
  a.UnitPrice,
  b.ShipmentValue,
  b.Atrbt_ShipmentValue,
  b.SalesPlan,
  b.Atrbt_SalesPlan,
  ClassMaster.IndustryTypeShortName,
  CommodityMaster.CommodityShortName,
  UnitMaster.UnitName,
  EstablishmentMaster.EstablishmentName,
  EstablishmentMaster.SurveyScope,
  EstablishmentMaster.ContinuousRespondent
 from PastRecord a, PastRecord b, ClassMaster,
  CommodityMaster, UnitMaster, EstablishmentMaster
 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.Pre_Rev_Mark = b.Pre_Rev_Mark
  and a.ItemType = '1'
  and b.ItemType = '2'
  and a.ISIC = ClassMaster.ISIC
  and a.ISIC = CommodityMaster.ISIC
  and a.ItemType = CommodityMaster.ItemType
  and a.CommodityCode = CommodityMaster.CommodityCode
  and CommodityMaster.UnitCode = UnitMaster.UnitCode
  and a.ISIC = EstablishmentMaster.ISIC
  and a.RegistrationNo = EstablishmentMaster.RegistrationNo;


drop view VW_PastRecordFG2;

create view VW_PastRecordFG2
as
select  a.ISIC,
        a.Year,
        a.Month,
        a.RegistrationNo,
        a.CommodityCode,
        a.Pre_Rev_Mark,
        a.Capacity,
        a.Atrbt_Capacity,
        ClassMaster.IndustryTypeShortName,
        CommodityMaster.CommodityShortName,
        UnitMaster.UnitName,
        EstablishmentMaster.EstablishmentName,
        EstablishmentMaster.SurveyScope,
        EstablishmentMaster.ContinuousRespondent
    from PastRecord a, ClassMaster,
        CommodityMaster, UnitMaster, EstablishmentMaster
    where
            a.ItemType = '6'
     and    a.ISIC = ClassMaster.ISIC
```

```
     and     a. ISIC = CommodityMaster. ISIC
     and     a. ItemType = CommodityMaster. ItemType
     and     a. CommodityCode = CommodityMaster. CommodityCode
     and     CommodityMaster. UnitCode = UnitMaster. UnitCode
     and     a. ISIC = EstablishmentMaster. ISIC
     and     a. RegistrationNo = EstablishmentMaster. RegistrationNo;


drop view VW_PastRecordFG4;

create view VW_PastRecordFG4
as
select  a. ISIC,
        a. Year,
        a. Month,
        a. RegistrationNo,
        a. CommodityCode,
        a. Pre_Rev_Mark,
        a. RwMt_MEInventory,
        a. Atrbt_RwMt_MEInventory,
        ClassMaster. IndustryTypeShortName,
        CommodityMaster. CommodityShortName,
        UnitMaster. UnitName,
        EstablishmentMaster. EstablishmentName,
        EstablishmentMaster. SurveyScope,
        EstablishmentMaster. ContinuousRespondent
    from PastRecord a, ClassMaster,
        CommodityMaster, UnitMaster, EstablishmentMaster
    where
            a. ItemType = '4'
     and    a. ISIC = ClassMaster. ISIC
     and    a. ISIC = CommodityMaster. ISIC
     and    a. ItemType = CommodityMaster. ItemType
     and    a. CommodityCode = CommodityMaster. CommodityCode
     and    CommodityMaster. UnitCode = UnitMaster. UnitCode
     and    a. ISIC = EstablishmentMaster. ISIC
     and    a. RegistrationNo = EstablishmentMaster. RegistrationNo;


drop view VW_Labor;

create view VW_Labor
            ISIC,
            Year,
            Month,
            RegistrationNo,
            Pre_Rev_Mark,
            CommodityCode,
            WorkersLaborTotal,
            Atrbt_WorkersLaborTotal,
            WorkersLabor_SC,
            Atrbt_WorkersLabor_SC,
            HoursLaborTotal,
            Atrbt_HoursLaborTotal,
            HoursLabor_SC,
            Atrbt_HoursLabor_SC,
            DaysLaborTotal,
            Atrbt_DaysLaborTotal,
            DaysLabor_SC,
            Atrbt_DaysLabor_SC,
            IndustryTypeShortName,
            EstablishmentName,
            SurveyScope,
            ContinuousRespondent) as
    select  a. ISIC,
            a. Year,
            a. Month,
            a. RegistrationNo,
            a. Pre_Rev_Mark,
            a. CommodityCode,
            a. LaborTotal,
            a. Atrbt_LaborTotal,
            a. Labor_SC,
            a. Atrbt_Labor_SC,
            b. LaborTotal,
            b. Atrbt_LaborTotal,
            b. Labor_SC,
```

```
            b. Atrbt_Labor_SC,
            c. LaborTotal,
            c. Atrbt_LaborTotal,
            c. Labor_SC,
            c. Labor_SC,
            ClassMaster. IndustryTypeShortName,
            EstablishmentMaster. EstablishmentName,
            EstablishmentMaster. SurveyScope,
            EstablishmentMaster. ContinuousRespondent
    from    PastRecord a, PastRecord b, PastRecord c,
            ClassMaster, EstablishmentMaster
    where   a. ISIC = b. ISIC
        and a. Year = b. Year
        and a. Month = b. Month
        and a. RegistrationNo = b. RegistrationNo
        and a. Pre_Rev_Mark = b. Pre_Rev_Mark
        and a. ISIC = c. ISIC
        and a. Year = c. Year
        and a. Month = c. Month
        and a. RegistrationNo = c. RegistrationNo
        and a. Pre_Rev_Mark = c. Pre_Rev_Mark
        and a. ItemType = '3'
        and b. ItemType = '3'
        and c. ItemType = '3'
        and a. CommodityCode = '010'
        and b. CommodityCode = '020'
        and c. CommodityCode = '030'
        and a. ISIC = ClassMaster. ISIC
        and a. ISIC = EstablishmentMaster. ISIC
        and a. RegistrationNo = EstablishmentMaster. RegistrationNo;


drop view vw_IndexListCommodity;

create  view vw_IndexListCommodity (
        AggregationRange,
        ISIC,
        ItemType,
        IndexCommodityCode,
        Year,
        Month,
        SurveyScope,
        Pre_Rev_Mark,
        IndexPR1,
        IndexSP2,
        IndexIV3,
        IndexIR4,
        IndexCU5,
        IndexLP6,
        IndexLI7,
        IndexRI8,
  GR_CPM_PR1,
  GR_CPY_PR1,
  GR_CPM_SP2,
  GR_CPY_SP2,
  GR_CPM_IV3,
  GR_CPY_IV3,
  GR_CPM_IR4,
  GR_CPY_IR4,
  GR_CPM_CU5,
  GR_CPY_CU5,
  GR_CPM_LP6,
  GR_CPY_LP6,
  GR_CPM_LI7,
  GR_CPY_LI7,
  GR_CPM_RI8,
  GR_CPY_RI8,
        CommodityShortName,
  CMDate,
  PMDate,
  PYDate) as
select  Indices. AggregationRange,
        Indices. ISIC,
        Indices. ItemType,
        Indices. IndexCommodityCode,
        Indices. Year,
```

```
        Indices.Month,
        Indices.SurveyScope,
        Indices.Pre_Rev_Mark,
        Indices.indexPR1,
        Indices.IndexSP2,
        Indices.IndexIV3,
        Indices.IndexIR4,
        Indices.IndexCU5,
        Indices.IndexLP6,
        Indices.IndexLI7,
        Indices.IndexRI8,
  a.GR_PR1,
  b.GR_PR1,
  a.GR_SP2,
  b.GR_SP2,
  a.GR_IV3,
  b.GR_IV3,
  a.GR_IR4,
  b.GR_IR4,
  a.GR_CU5,
  b.GR_CU5,
  a.GR_LP6,
  b.GR_LP6,
  a.GR_LI7,
  b.GR_LI7,
  a.GR_RI8,
  b.GR_RI8,
        CommodityMaster.CommodityShortName,
  to_date(to_char(Indices.Year,'9999') || to_char(Indices.Month,'09') || '01','yyyymmdd'),
  add_months(to_date(to_char(Indices.Year,'9999') || to_char(Indices.Month,'09') || '01','
yyyymmdd'),-1),
  add_months(to_date(to_char(Indices.Year,'9999') || to_char(Indices.Month,'09') || '01','
yyyymmdd'),-12)
  from Indices,GrowthRate a,GrowthRate b,CommodityMaster
 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 = CommodityMaster.ISIC
   and  Indices.ItemType = CommodityMaster.ItemType
   and  Indices.IndexCommodityCode = CommodityMaster.CommodityCode;


drop view vw_EstablishContributionRatio;

create  view    vw_EstablishContributionRatio
       (
        ISIC,
        ItemType,
        CommodityCode,
        Year,
        Month,
        RegistrationNo,
        Pre_Rev_Mark,
        ComparisonTarget,
        Seq,
        CR_PR_CN,
        CR_SQ_CN,
        CR_IV_CN,
        CR_SV_CN,
        CR_PR_GR,
        CR_SQ_GR,
        CR_IV_GR,
```

```
        CR_SV_GR,
        ISICShortName,
        CommodityShortName,
        UnitName,
        EstablishmentName,
        SurveyScope) as
select  /*+ all_rows*/
        a.ISIC,
        a.ItemType,
        a.CommodityCode,
        a.Year,
        a.Month,
        a.RegistrationNo,
        a.Pre_Rev_Mark,
        a.ComparisonTarget,
        a.Seq,
        a.CR_Production,
        a.CR_ShipmentQty,
        a.CR_MEInventory,
        a.CR_ShipmentVal,
        c.GR_Production,
        c.GR_ShipmentQty,
        c.GR_MEInventory,
        c.GR_ShipmentVal,
        ClassMaster.IndustryTypeShortName,
        CommodityMaster.CommodityShortName,
        UnitMaster.UnitName,
        EstablishmentMaster.EstablishmentName,
        EstablishmentMaster.SurveyScope
  from  ContributionForCommodity a,GrowthRateQTY c,
        CommodityMaster,ClassMaster, UnitMaster,EstablishmentMaster
 where  a.ItemType = '1'
   and  a.ISIC = c.ISIC
   and  a.Year = c.Year
   and  a.Month = c.Month
   and  a.ItemType = c.ItemType
   and  a.CommodityCode = c.CommodityCode
   and  a.SurveyScope = c.SurveyScope
   and  a.Pre_Rev_Mark = c.Pre_Rev_Mark
   and  a.ComparisonTarget = c.ComparisonTarget
   and  a.Seq = c.Seq
   and  a.ISIC = ClassMaster.ISIC
   and  a.ISIC = CommodityMaster.ISIC
   and  a.ItemType = CommodityMaster.ItemType
   and  a.CommodityCode = CommodityMaster.CommodityCode
   and  CommodityMaster.UnitCode = UnitMaster.UnitCode
   and  a.ISIC = EstablishmentMaster.ISIC
   and  a.RegistrationNo = EstablishmentMaster.RegistrationNo;


drop view vw_EstablishContributionRatio2;

create  view    vw_EstablishContributionRatio2
   (ISIC,
    ItemType,
    CommodityCode,
    Year,
    Month,
    RegistrationNo,
    Pre_Rev_Mark,
    ComparisonTarget,
    Seq,
    CR_RM_CN,
    CR_RM_GR,
    ISICShortName,
    CommodityShortName,
    UnitName,
    EstablishmentName,
    SurveyScope) as
select /*+ all_rows*/
        a.ISIC,
        a.ItemType,
        a.CommodityCode,
        a.Year,
        a.Month,
        a.RegistrationNo,
```

```
        a. Pre_Rev_Mark,
        a. ComparisonTarget,
        a. Seq,
        a. CR_RawMaterial,
        c. GR_RawMaterial,
        ClassMaster. IndustryTypeShortName,
        CommodityMaster. CommodityShortName,
        UnitMaster. UnitName,
        EstablishmentMaster. EstablishmentName,
        EstablishmentMaster. SurveyScope
  from  ContributionForCommodity a, GrowthRateQTY c,
        CommodityMaster, ClassMaster,  UnitMaster, EstablishmentMaster
 where  a. ISIC = c. ISIC
   and  a. Year = c. Year
   and  a. Month = c. Month
   and  a. ItemType = '4'
   and  a. ItemType = c. ItemType
   and  a. CommodityCode = c. CommodityCode
   and  a. SurveyScope = c. surveyScope
   and  a. Pre_Rev_Mark = c. Pre_Rev_Mark
   and  a. ComparisonTarget = c. ComparisonTarget
   and  a. Seq = c. Seq
   and  a. ISIC = ClassMaster. ISIC
   and  a. ISIC = CommodityMaster. ISIC
   and  a. ItemType = CommodityMaster. ItemType
   and  a. CommodityCode = CommodityMaster. CommodityCode
   and CommodityMaster. UnitCode = UnitMaster. UnitCode
   and a. ISIC = EstablishmentMaster. ISIC
   and a. RegistrationNo = EstablishmentMaster. RegistrationNo;


drop view VW_ErrorLog;

create view VW_ErrorLog
as
select  a. ISIC,
        a. Year,
        a. Month,
        a. RegistrationNo,
        a. Itemtype,
        a. CommodityCode,
        a. MessageCode,
        MessageMaster. Message,
        CommodityMaster. CommodityshortName,
        EstablishmentMaster. EstablishmentName,
        EstablishmentMaster. EstablishmentTel,
        EstablishmentMaster. NameofRespondent
    from ErrorLog  a,  CommodityMaster,  MessageMaster,   EstablishmentMaster
    where
         a. Messagecode(+) = MessageMaster. MessageCode
     and    a. ISIC   =   EstablishmentMaster. ISIC
     and    a. REGISTRATIONNO            =   EstablishmentMaster. REGISTRATIONNO
     and    a. ISIC   =   CommodityMaster. ISIC
     and    a. Itemtype   =   CommodityMaster. Itemtype
     and    a. CommodityCode = CommodityMaster. CommodityCode;

drop view VW_Fluctuation;
create view VW_Fluctuation
as
select  a. ISIC,
  a. Year,
  a. Month,
  a. RegistrationNo,
  a. CommodityCode,
  a. BM_Inventory,
  a. ProductionQTY,
  a. Receipts,
  a. DomesticSales,
  a. Export,
  a. OtherSales,
  a. ME_Inventory,
  a. UnitPrice,
  b. ShipmentValue,
  b. SalesPlan,
  CommodityMaster. CommodityShortName,
  EstablishmentMaster. EstablishmentName,
  EstablishmentMaster. SurveyScope,
```

```
 EstablishmentMaster.ContinuousRespondent
from SurveyData a, SurveyData b,
 CommodityMaster, EstablishmentMaster
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.ISIC = CommodityMaster.ISIC
 and a.ItemType = CommodityMaster.ItemType
 and a.CommodityCode = CommodityMaster.CommodityCode
 and a.ISIC = EstablishmentMaster.ISIC
 and a.RegistrationNo = EstablishmentMaster.RegistrationNo;
```

```
-- Indices by ISIC
drop    view    vw_IndicesISIC;

create  view    vw_IndicesISIC   (
        AggregationRange,
        ISIC,
        Year,
        Month,
        SurveyScope,
        Pre_Rev_Mark,
        INDEXPR1,
        INDEXSP2,
        INDEXIV3,
        INDEXIR4,
        INDEXCU5,
        INDEXLP6,
        INDEXLI7,
        INDEXRI8,
        IndustryTypeShortName,
        ISIC1,
        ISIC2,
        ISIC3,
        YearMonth)  as
select  Indices.AggregationRange,
        Indices.ISIC,
        Indices.Year,
        Indices.Month,
        Indices.SurveyScope,
        Indices.Pre_Rev_Mark,
        Indices.INDEXPR1,
        Indices.INDEXSP2,
        Indices.INDEXIV3,
        Indices.INDEXIR4,
        Indices.INDEXCU5,
        Indices.INDEXLP6,
        Indices.INDEXLI7,
        Indices.INDEXRI8,
        AggregationMaster.IndustryTypeShortName,
        substr(Indices.ISIC, 1, 2),
        substr(Indices.ISIC, 3, 2),
        substr(Indices.ISIC, 5, 2),
        Indices.Year * 100 + Indices.Month
 from   Indices, AggregationMaster
 where  Indices.AggregationRange = AggregationMaster.AggregationRange
   and  Indices.ISIC = AggregationMaster.ISIC;

-- Indices by Commodity
drop    view    vw_IndicesCommodity;

create  view    vw_IndicesCommodity   (
        AggregationRange,
        ISIC,
                ItemType,
        IndexCommodityCode,
        Year,
        Month,
        SurveyScope,
        Pre_Rev_Mark,
        INDEXPR1,
        INDEXSP2,
        INDEXIV3,
        INDEXIR4,
        INDEXCU5,
        INDEXLP6,
        INDEXLI7,
        INDEXRI8,
        CommodityShortName,
        YearMonth)  as
select  Indices.AggregationRange,
        Indices.ISIC,
                Indices.ItemType,
        Indices.IndexCommodityCode,
        Indices.Year,
        Indices.Month,
        Indices.SurveyScope,
        Indices.Pre_Rev_Mark,
        Indices.INDEXPR1,
```

```
        Indices. INDEXSP2,
        Indices. INDEXIV3,
        Indices. INDEXIR4,
        Indices. INDEXCU5,
        Indices. INDEXLP6,
        Indices. INDEXLI7,
        Indices. INDEXRI8,
        CommodityMaster. CommodityShortName,
        Indices. Year * 100 + Indices. Month
 from   Indices, CommodityMaster
 where  Indices. ISIC = CommodityMaster. ISIC
   and  Indices. ItemType = CommodityMaster. ItemType
   and  Indices. IndexCommodityCode = CommodityMaster. CommodityCode;

-- Indices and Growth Range By ISIC
drop    view    vw_IndicesGrowthISIC;

create  view    vw_IndicesGrowthISIC   (
        AggregationRange,
        ISIC,
        Year,
        Month,
        SurveyScope,
        Pre_Rev_Mark,
        INDEXPRI,
                GR_CPM_PR1,
                GR_CPY_PR1,
        INDEXSP2,
                GR_CPM_SP2,
                GR_CPY_SP2,
        INDEXIV3,
                GR_CPM_IV3,
                GR_CPY_IV3,
        INDEXIR4,
                GR_CPM_IR4,
                GR_CPY_IR4,
        INDEXCU5,
                GR_CPM_CU5,
                GR_CPY_CU5,
        INDEXLP6,
                GR_CPM_LP6,
                GR_CPY_LP6,
        INDEXLI7,
                GR_CPM_LI7,
                GR_CPY_LI7,
        INDEXRI8,
                GR_CPM_RI8,
                GR_CPY_RI8,
        GR_InventoryQTY_CPM_IR,
        GR_InventoryQTY_CPY_IR,
        GR_ShipmentQTY_CPM_IR,
        GR_ShipmentQTY_CPY_IR,
        GR_ProductionVal_CPM_LP,
        GR_ProductionVal_CPY_LP,
        GR_ManHour_CPM_LP,
        GR_ManHour_CPY_LP,
        GR_ProductionQTY_CPM_CU,
        GR_ProductionQTY_CPY_CU,
        GR_Capacity_CPM_CU,
        GR_Capacity_CPY_CU,
        IndustryTypeShortName,
        ISIC1,
        ISIC2,
        ISIC3,
        YearMonth)  as
select  Indices. AggregationRange,
        Indices. ISIC,
        Indices. Year,
        Indices. Month,
        Indices. SurveyScope,
        Indices. Pre_Rev_Mark,
        Indices. INDEXPRI,
        .       a. GR_PR1,
                b. GR_PR1,
        Indices. INDEXSP2,
                a. GR_SP2,
                b. GR_SP2,
```

```
        Indices. INDEXIV3,
                a. GR_IV3,
                b. GR_IV3,
        Indices. INDEXIR4,
                a. GR_IR4,
                b. GR_IR4,
        Indices. INDEXCU5,
                a. GR_CU5,
                b. GR_CU5,
        Indices. INDEXLP6,
                a. GR_LP6,
                b. GR_LP6,
        Indices. INDEXLI7,
                a. GR_LI7,
                b. GR_LI7,
        Indices. INDEXRI8,
                a. GR_RI8,
                b. GR_RI8,
        a. GR_InventoryQTY_IR,
        b. GR_InventoryQTY_IR,
        a. GR_ShipmentQTY_IR,
        b. GR_ShipmentQTY_IR,
        a. GR_ProductionVal_LP,
        b. GR_ProductionVal_LP,
        a. GR_ManHour_LP,
        b. GR_ManHour_LP,
        a. GR_ProductionQTY_CU,
        b. GR_ProductionQTY_CU,
        a. GR_Capacity_CU,
        b. GR_Capacity_CU,
        AggregationMaster. IndustryTypeShortName,
        substr(Indices. ISIC, 1, 2),
        substr(Indices. ISIC, 3, 2),
        substr(Indices. ISIC, 5, 2),
        Indices. Year * 100 + Indices. Month
 from   Indices, GrowthRate a, GrowthRate b, AggregationMaster
 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. AggregationRange = AggregationMaster. AggregationRange
   and  Indices. ISIC = AggregationMaster. ISIC;

-- Indices and Growth Range By Commodity.
drop    view    vw_IndicesGrowthCommodity;

create  view    vw_IndicesGrowthCommodity   (
        AggregationRange,
        ISIC,
                ItemType,
        IndexCommodityCode,
        Year,
        Month,
        SurveyScope,
        Pre_Rev_Mark,
        INDEXPR1,
                GR_CPM_PR1,
                GR_CPY_PR1,
        INDEXSP2,
                GR_CPM_SP2,
                GR_CPY_SP2,
        INDEXIV3,
                GR_CPM_IV3,
```

```
                GR_CPY_IV3,
        INDEXIR4,
                GR_CPM_IR4,
                GR_CPY_IR4,
        INDEXCU5,
                GR_CPM_CU5,
                GR_CPY_CU5,
        INDEXLP6,
                GR_CPM_LP6,
                GR_CPY_LP6,
        INDEXLI7,
                GR_CPM_LI7,
                GR_CPY_LI7,
        INDEXRI8,
                GR_CPM_RI8,
                GR_CPY_RI8,
        GR_InventoryQTY_CPM_IR,
        GR_InventoryQTY_CPY_IR,
        GR_ShipmentQTY_CPM_IR,
        GR_ShipmentQTY_CPY_IR,
        GR_ProductionVal_CPM_LP,
        GR_ProductionVal_CPY_LP,
        GR_ManHour_CPM_LP,
        GR_ManHour_CPY_LP,
        GR_ProductionQTY_CPM_CU,
        GR_ProductionQTY_CPY_CU,
        GR_Capacity_CPM_CU,
        GR_Capacity_CPY_CU,
        CommodityShortName,
        ISIC1,
        ISIC2,
        ISIC3,
        YearMonth)  as
select  Indices.AggregationRange,
        Indices.ISIC,
                Indices.ItemType,
        Indices.IndexCommodityCode,
        Indices.Year,
        Indices.Month,
        Indices.SurveyScope,
        Indices.Pre_Rev_Mark,
        Indices.INDEXPR1,
                a.GR_PR1,
                b.GR_PR1,
        Indices.INDEXSP2,
                a.GR_SP2,
                b.GR_SP2,
        Indices.INDEXIV3,
                a.GR_IV3,
                b.GR_IV3,
        Indices.INDEXIR4,
                a.GR_IR4,
                b.GR_IR4,
        Indices.INDEXCU5,
                a.GR_CU5,
                b.GR_CU5,
        Indices.INDEXLP6,
                a.GR_LP6,
                b.GR_LP6,
        Indices.INDEXLI7,
                a.GR_LI7,
                b.GR_LI7,
        Indices.INDEXRI8,
                a.GR_RI8,
                b.GR_RI8,
        a.GR_InventoryQTY_IR,
        b.GR_InventoryQTY_IR,
        a.GR_ShipmentQTY_IR,
        b.GR_ShipmentQTY_IR,
        a.GR_ProductionVal_LP,
        b.GR_ProductionVal_LP,
        a.GR_ManHour_LP,
        b.GR_ManHour_LP,
        a.GR_ProductionQTY_CU,
        b.GR_ProductionQTY_CU,
        a.GR_Capacity_CU,
        b.GR_Capacity_CU,
```

```
        CommodityMaster.CommodityShortName,
        substr(Indices.ISIC, 1, 2),
        substr(Indices.ISIC, 3, 2),
        substr(Indices.ISIC, 5, 2),
        Indices.Year * 100 + Indices.Month
 from   Indices, GrowthRate a, GrowthRate b, CommodityMaster
 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 = CommodityMaster.ISIC
   and  Indices.ItemType = CommodityMaster.ItemType
   and  Indices.IndexCommodityCode = CommodityMaster.CommodityCode;

-- Begin AnnualIndices ----------------------------------------

-- annualIndices by ISIC
drop    view    vw_annualIndicesISIC;

create  view    vw_annualIndicesISIC   (
        AggregationRange,
        ISIC,
        Year,
        SurveyScope,
        Pre_Rev_Mark,
        INDEXPR1,
        INDEXSP2,
        INDEXIV3,
        INDEXIR4,
        INDEXCU5,
        INDEXLP6,
        INDEXLI7,
        INDEXRI8,
        IndustryTypeShortName,
        ISIC1,
        ISIC2,
        ISIC3)  as
select  annualIndices.AggregationRange,
        annualIndices.ISIC,
        annualIndices.Year,
        annualIndices.SurveyScope,
        annualIndices.Pre_Rev_Mark,
        annualIndices.INDEXPR1,
        annualIndices.INDEXSP2,
        annualIndices.INDEXIV3,
        annualIndices.INDEXIR4,
        annualIndices.INDEXCU5,
        annualIndices.INDEXLP6,
        annualIndices.INDEXLI7,
        annualIndices.INDEXRI8,
        AggregationMaster.IndustryTypeShortName,
        substr(annualIndices.ISIC, 1, 2),
        substr(annualIndices.ISIC, 3, 2),
        substr(annualIndices.ISIC, 5, 2)
 from   annualIndices, AggregationMaster
 where  annualIndices.AggregationRange = AggregationMaster.AggregationRange
   and  annualIndices.ISIC = AggregationMaster.ISIC;

-- annualIndices by Commodity
drop    view    vw_annualIndicesCommodity;

create  view    vw_annualIndicesCommodity   (
        AggregationRange,
```

```
        ISIC,
                ItemType,
        IndexCommodityCode,
        Year,
        SurveyScope,
        Pre_Rev_Mark,
        INDEXPR1,
        INDEXSP2,
        INDEXIV3,
        INDEXIR4,
        INDEXCU5,
        INDEXLP6,
        INDEXLI7,
        INDEXRI8,
        CommodityShortName)  as
select  annualIndices.AggregationRange,
        annualIndices.ISIC,
                annualIndices.ItemType,
        annualIndices.IndexCommodityCode,
        annualIndices.Year,
        annualIndices.SurveyScope,
        annualIndices.Pre_Rev_Mark,
        annualIndices.INDEXPR1,
        annualIndices.INDEXSP2,
        annualIndices.INDEXIV3,
        annualIndices.INDEXIR4,
        annualIndices.INDEXCU5,
        annualIndices.INDEXLP6,
        annualIndices.INDEXLI7,
        annualIndices.INDEXRI8,
        CommodityMaster.CommodityShortName
 from   annualIndices,CommodityMaster
 where  annualIndices.ISIC = CommodityMaster.ISIC
   and  annualIndices.ItemType = CommodityMaster.ItemType
   and  annualIndices.IndexCommodityCode = CommodityMaster.CommodityCode;


-- End annualIndices ---------------------------------------------

-- General Explanation View
drop            view    vw_GenExp;

create  view    vw_GenExp   (
                                Year,
        Month,
        SurveyScope,
        Pre_Rev_Mark,
        INDEXPR1,
        INDEXSP2,
        INDEXIV3,
        INDEXIR4,
        INDEXCU5,
        INDEXLP6,
        INDEXLI7,
        INDEXRI8,
                                GR_CPM_PR1,
                                GR_CPM_SP2,
                                GR_CPM_IV3,
                                GR_CPM_IR4,
                                GR_CPM_CU5,
                                GR_CPM_LP6,
                                GR_CPM_LI7,
                                GR_CPM_RI8,
                                GR_CPY_PR1,
                                GR_CPY_SP2,
                                GR_CPY_IV3,
                                GR_CPY_IR4,
                                GR_CPY_CU5,
                                GR_CPY_LP6,
                                GR_CPY_LI7,
                                GR_CPY_RI8)  as
select  Indices.Year,
        Indices.Month,
        Indices.SurveyScope,
        Indices.Pre_Rev_Mark,
        Indices.INDEXPR1,
        Indices.INDEXSP2,
```

```
        Indices. INDEXIV3,
        Indices. INDEXIR4,
        Indices. INDEXCU5,
        Indices. INDEXLP6,
        Indices. INDEXLI7,
        Indices. INDEXRI8,
                                a. GR_PR1,
                                a. GR_SP2,
                                a. GR_IV3,
                                a. GR_IR4,
                                a. GR_CU5,
                                a. GR_LP6,
                                a. GR_LI7,
                                a. GR_RI8,
                                b. GR_PR1,
                                b. GR_SP2,
                                b. GR_IV3,
                                b. GR_IR4,
                                b. GR_CU5,
                                b. GR_LP6,
                                b. GR_LI7,
                                b. GR_RI8
from    Indices, GrowthRate a, GrowthRate b
where   Indices. AggregationRange = '1'
         and     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';
```

```
-- Finish Goods of Survey Data
drop view VW_SurveyDataFG;
create view VW_SurveyDataFG
as
select  a.ISIC,
                a.Year,
                a.Month,
                a.RegistrationNo,
                a.BM_Inventory,
                a.CommodityCode,
                a.ProductionQTY,
                a.Receipts,
                a.DomesticSales,
                a.Export,
                a.OtherSales,
                a.ME_Inventory,
                a.UnitPrice,
                b.ShipmentValue,
                b.SalesPlan
        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';

-- Figgures by Commodity List View
drop view VW_PastRecordScope;

create view VW_PastRecordScope
as
select  PastRecord.ISIC,
                PastRecord.Year,
                PastRecord.Month,
                PastRecord.RegistrationNo,
                PastRecord.ItemType,
                PastRecord.CommodityCode,
                PastRecord.Pre_Rev_Mark,
                PastRecord.ProductionQty,
                PastRecord.DomesticSales,
                PastRecord.Export,
                PastRecord.Me_Inventory,
                PastRecord.ShipmentValue,
                PastRecord.Capacity,
                PastRecord.RwMt_MEInventory,
                EstablishmentMaster.SurveyScope
  from  PastRecord, EstablishmentMaster
  where PastRecord.ISIC = EstablishmentMaster.ISIC
        and     PastRecord.RegistrationNo = EstablishmentMaster.RegistrationNo;


-- Growth Rate For Automatic Estimation.
drop view vw_GRForAutoEst;

create view vw_GRForAutoEst(
                ISIC,
                ItemType,
                CommodityCode,
                CurYear,
                CurMonth,
                PreYear,
                PreMonth,
                CurProductionQty,
                PreProductionQty,
                CurReceipts,
                PreReceipts,
                CurDomesticSales,
                PreDomesticSales,
                CurExport,
                PreExport,
                CurOtherSales,
                PreOtherSales,
                CurShipmentValue,
                PreShipmentValue,
                CurSalesPlan,
```

```
                PreSalesPlan,
                CurRwMt_MEInventory,
                PreRwMt_MEInventory,
                CurRwMt_MEInventoryValue,
                PreRwMt_MEInventoryValue) as
        select
                a.ISIC, a.ItemType, a.CommodityCode, a.Year, a.Month, b.Year, b.Month,
                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)),
                sum(b.DomesticSales * decode(b.Atrbt_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.SalesPlan * decode(a.Atrbt_SalesPlan,'V',1,0) * decode(b.Atrbt_Sales
Plan,'V',1,0)),
                sum(b.SalesPlan * decode(a.Atrbt_SalesPlan,'V',1,0) * decode(b.Atrbt_Sales
Plan,'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
        group by a.ISIC, a.ItemType, a.CommodityCode, a.Year, a.Month, b.Year, b.Month;
```

Visual Basic

```
VERSION 5.00
Object = "{831FDD16-0C5C-11D2-A9FC-0000F8754DA1}#2.0#0"; "MSCOMCTL.OCX"
Begin VB.Form Form1
   Caption         =   "Batch Process"
   ClientHeight    =   4515
   ClientLeft      =   60
   ClientTop       =   345
   ClientWidth     =   7755
   LinkTopic       =   "Form1"
   MaxButton       =   0   'False
   MinButton       =   0   'False
   Moveable        =   0   'False
   ScaleHeight     =   4515
   ScaleWidth      =   7755
   StartUpPosition =   2  'CenterScreen
   Begin VB.TextBox nPgTotal
      DataField       =   "PgTotal"
      DataSource      =   "Data1"
      Height          =   495
      Left            =   4200
      TabIndex        =   18
      Text            =   "nPgTotal"
      Top             =   3720
      Visible         =   0   'False
      Width           =   255
   End
   Begin VB.TextBox MaxTime
      DataField       =   "MaxTime"
      DataSource      =   "Data1"
      Height          =   375
      Left            =   6240
      TabIndex        =   16
      Text            =   "MaxTime"
      Top             =   120
      Visible         =   0   'False
      Width           =   735
   End
   Begin VB.TextBox No
      DataField       =   "Pg"
      DataSource      =   "Data1"
      Height          =   375
      Left            =   4680
      TabIndex        =   15
      Text            =   "No"
      Top             =   3000
      Visible         =   0   'False
      Width           =   255
   End
   Begin VB.TextBox sPassword
      DataField       =   "PassWord"
      DataSource      =   "Data1"
      Height          =   495
      Left            =   5880
      TabIndex        =   14
      Text            =   "sPassword"
      Top             =   3720
      Visible         =   0   'False
      Width           =   1335
   End
   Begin VB.TextBox sUser
      DataField       =   "User"
      DataSource      =   "Data1"
      Height          =   375
      Left            =   5880
      TabIndex        =   13
      Text            =   "sUser"
      Top             =   3120
      Visible         =   0   'False
      Width           =   1215
   End
   Begin VB.TextBox MonthNm
      Enabled         =   0   'False
      Height          =   375
      Left            =   3720
      TabIndex        =   12
      Text            =   "sMonthNm"
      Top             =   600
```

```
   Width           =   1815
End
Begin VB.TextBox TypeNm
   Enabled         =   0   'False
   Height          =   375
   Left            =   1440
   TabIndex        =   6
   Text            =   "sTypeNm"
   Top             =   120
   Width           =   2895
End
Begin VB.TextBox Type
   DataField       =   "Type"
   DataSource      =   "Data1"
   Height          =   375
   Left            =   4680
   TabIndex        =   5
   Text            =   "sType"
   Top             =   120
   Visible         =   0   'False
   Width           =   180
End
Begin VB.Data Data1
   Caption         =   "Data1"
   Connect         =   "Access"
   DatabaseName    =   "C:¥JICA¥jicamain.mdb"
   DefaultCursorType=   0  'DefaultCursor
   DefaultType     =   2  'UseODBC
   Exclusive       =   0   'False
   Height          =   345
   Left            =   2040
   Options         =   0
   ReadOnly        =   0   'False
   RecordsetType   =   1  'Dynaset
   RecordSource    =   "BatchCtl"
   Top             =   4080
   Visible         =   0   'False
   Width           =   1215
End
Begin VB.Timer Timer1
   Enabled         =   0   'False
   Interval        =   500
   Left            =   6600
   Top             =   720
End
Begin MSComctlLib.ProgressBar PgBar
   Height          =   375
   Left            =   480
   TabIndex        =   4
   Top             =   1440
   Width           =   6975
   _ExtentX        =   12303
   _ExtentY        =   661
   _Version        =   393216
   Appearance      =   1
End
Begin VB.TextBox PMonth
   DataField       =   "Month"
   DataSource      =   "Data1"
   Height          =   375
   Left            =   5880
   TabIndex        =   3
   Text            =   "nMonth"
   Top             =   720
   Visible         =   0   'False
   Width           =   255
End
Begin VB.TextBox PYear
   DataField       =   "Year"
   DataSource      =   "Data1"
   Enabled         =   0   'False
   Height          =   375
   Left            =   1440
   TabIndex        =   2
   Text            =   "nYear"
   Top             =   600
   Width           =   855
```

```
    End
    Begin VB.TextBox PgNm
       Enabled          =   0   'False
       Height           =   375
       Left             =   2280
       TabIndex         =   1
       Text             =   "SPgNm"
       Top              =   2280
       Width            =   5175
    End
    Begin VB.TextBox PgNo
       Enabled          =   0   'False
       Height           =   375
       Left             =   2400
       TabIndex         =   0
       Text             =   "nPgNo"
       Top              =   3000
       Width            =   1695
    End
    Begin VB.Label Label6
       Height           =   375
       Left             =   4680
       TabIndex         =   17
       Top              =   1920
       Width            =   2775
    End
    Begin VB.Label Label5
       Caption          =   "Running Process No.  :"
       Height           =   375
       Left             =   240
       TabIndex         =   11
       Top              =   3120
       Width            =   1695
    End
    Begin VB.Label Label4
       Caption          =   "Running Process Name :"
       Height           =   375
       Left             =   240
       TabIndex         =   10
       Top              =   2280
       Width            =   1815
    End
    Begin VB.Label Label3
       Caption          =   "Month :"
       Height           =   375
       Left             =   2880
       TabIndex         =   9
       Top              =   720
       Width            =   735
    End
    Begin VB.Label Label2
       Caption          =   "Year :"
       Height           =   255
       Left             =   120
       TabIndex         =   8
       Top              =   720
       Width            =   1095
    End
    Begin VB.Label Label1
       Caption          =   "Process Type :"
       Height           =   375
       Left             =   120
       TabIndex         =   7
       Top              =   120
       Width            =   1215
    End
End
Attribute VB_Name = "Form1"
Attribute VB_GlobalNameSpace = False
Attribute VB_Creatable = False
Attribute VB_PredeclaredId = True
Attribute VB_Exposed = False
Public x As Integer

Private Sub Form_Activate()
Dim sTotalPg  As String
```

```
Form1.PgNm.Text = "Start"
Form1.PgBar.Value = 0
Form1.PgBar.Max = 100  'Form1.MaxTime
Form1.Timer1.Enabled = True


Data1.Recordset.MoveLast
Select Case Form1.Type
Case "1"
    Form1.TypeNm.Text = "Preliminary Process"
Case "2"
    Form1.TypeNm.Text = "Revised Process"
Case "3"
    Form1.TypeNm.Text = "Yearly Process"
Case Else
    Form1.TypeNm.Text = "error"
End Select

Select Case Form1.PMonth
Case 1
    Form1.MonthNm.Text = "January"
Case 2
    Form1.MonthNm.Text = "February"
Case 3
    Form1.MonthNm.Text = "March"
Case 4
    Form1.MonthNm.Text = "April"
Case 5
    Form1.MonthNm.Text = "May"
Case 6
    Form1.MonthNm.Text = "June"
Case 7
    Form1.MonthNm.Text = "July"
Case 8
    Form1.MonthNm.Text = "August"
Case 9
    Form1.MonthNm.Text = "September"
Case 10
    Form1.MonthNm.Text = "October"
Case 11
    Form1.MonthNm.Text = "November"
Case 12
    Form1.MonthNm.Text = "December"
Case other
    Form1.MonthNm.Text = "error"
End Select
sTotalPg = "/" & Form1.nPgTotal

Select Case Form1.No
Case 1
    If Form1.Type = "3" Then
        Form1.PgNm.Text = "Update Unit Price"
    Else
        Form1.PgNm.Text = "Automatic Estimation"
    End If
    Form1.PgNo.Text = "1" & sTotalPg
Case 2
    If Form1.Type = "3" Then
        Form1.PgNm.Text = "Creating data to PastRecord Table"
    Else
        Form1.PgNm.Text = "Creating data to PastRecord Table"
    End If
    Form1.PgNo.Text = "2" & sTotalPg
Case 3
    If Form1.Type = "3" Then
        Form1.PgNm.Text = "Calculating the Weight Aggregation"
    Else
        Form1.PgNm.Text = "Calculating the Weight Aggregation"
    End If
    Form1.PgNo.Text = "3" & sTotalPg
Case 4
    If Form1.Type = "3" Then
        Form1.PgNm.Text = "Calculating Indices"
    Else
        Form1.PgNm.Text = "Calculating Indices"
    End If
    Form1.PgNo.Text = "4" & sTotalPg
```

```
    Case 5
        If Form1.Type = "3" Then
            Form1.PgNm.Text = "Calculating Growth Rate of Indices"
        Else
            Form1.PgNm.Text = "Calculating Growth Rate of Indices"
        End If
        Form1.PgNo.Text = "5" & sTotalPg
    Case 6
        If Form1.Type = "3" Then
            Form1.PgNm.Text = "Calculating Growth Rate of Ratio Index Elements For Commodi
ty"
        Else
            Form1.PgNm.Text = "Calculating Growth Rate of Ratio Index Elements For Commodi
ty"
        End If
        Form1.PgNo.Text = "6" & sTotalPg
    Case 7
        If Form1.Type = "3" Then
            Form1.PgNm.Text = "Calculating Growth Rate of Ratio Index Elements For Industr
y"
        Else
            Form1.PgNm.Text = "Calculating Growth Rate of Ratio Index Elements For Industr
y"
        End If
        Form1.PgNo.Text = "7" & sTotalPg
    Case 8
        If Form1.Type = "3" And Form1.PMonth = 12 Then
            Form1.PgNm.Text = "Index Calculation For Annual"
        ElseIf Form1.Type = "3" And Form1.PMonth <> 12 Then
            Form1.PgNm.Text = "Update Data in BatchControl Table"
        ElseIf Form1.Type = "1" Then
            Form1.PgNm.Text = "Update Data in BatchControl Table"
        ElseIf Form1.Type = "2" Then
            Form1.PgNm.Text = "Link Master Copy to Next Month"
        End If
        Form1.PgNo.Text = "8" & sTotalPg
   Case 9
       If Form1.Type = "3" And Form1.PMonth = 12 Then
          Form1.PgNm.Text = "Update Data in BatchControl Table"
       Else
          Form1.PgNm.Text = "Update Data in BatchControl Table"
          Form1.PgNo.Text = "9" & sTotalPg
       End If
    Case other
        Form1.PgNm.Text = "Error"
        Form1.PgNo.Text = "Error"
    End Select


End Sub

Private Sub Timer1_Timer()
Dim iMax As Integer
Dim i As Integer

i = Form1.PgBar.Max / 100

'If i < 1 Then
'     i = 1
'End If

If Form1.PgBar.Value = Form1.PgBar.Max Then
    Form1.Timer1.Enabled = False
    Unload Me
Else
    x = x + 1
    Form1.PgBar.Value = x
    Label6.Caption = (x ¥ i) & "  Precents Succeed"
End If

End Sub
```

```
Type=Exe
Reference=*¥G{00020430-0000-0000-C000-000000000046}#2.0#0#..¥..¥WINDOWS¥SYSTEM¥StdOle2.Tlb
#OLE Automation
Form=MonthPro.frm
Object={831FDD16-0C5C-11D2-A9FC-0000F8754DA1}#2.0#0; MSCOMCTL.OCX
Object={CC0918E0-EFE5-11CF-A044-00AA00B6015C}#1.0#0; ASCTRLS.OCX
Object={92096210-97DF-11CF-9F27-02608C4BF3B5}#1.0#0; ORADC.OCX
Reference=*¥G{00025E01-0000-0000-C000-000000000046}#4.0#0#..¥..¥PROGRAM FILES¥COMMON FILES
¥MICROSOFT SHARED¥DAO¥DAO350.DLL#Microsoft DAO 3.51 Object Library
Startup="Form1"
HelpFile=""
ExeName32="MonthPro.exe"
Command32=""
Name="Project1"
HelpContextID="0"
CompatibleMode="0"
MajorVer=1
MinorVer=0
RevisionVer=0
AutoIncrementVer=0
ServerSupportFiles=0
VersionCompanyName="OFFICE OF INDUSTRIAL ECONOMIC"
CompilationType=0
OptimizationType=0
FavorPentiumPro(tm)=0
CodeViewDebugInfo=0
NoAliasing=0
BoundsCheck=0
OverflowCheck=0
FlPointCheck=0
FDIVCheck=0
UnroundedFP=0
StartMode=0
Unattended=0
Retained=0
ThreadPerObject=0
MaxNumberOfThreads=1
DebugStartupOption=0
```

Form1 = 39, 69, 406, 407, Z, 44, 44, 510, 382, C

```
[SCC]
SCC=This is a source code control file

[running.vbp]
SCC_Project_Name=this project is not under source code control
SCC_Aux_Path=<This is an empty string for the mssccprj.scc file>

[MonthPro.vbp]
SCC_Project_Name=this project is not under source code control
SCC_Aux_Path=<This is an empty string for the mssccprj.scc file>
```

```
VERSION 5.00
Object = "{831FDD16-0C5C-11D2-A9FC-0000F8754DA1}#2.0#0"; "MSCOMCTL.OCX"
Begin VB.Form frm_running
   Caption         =   "Running Program"
   ClientHeight    =   2310
   ClientLeft      =   60
   ClientTop       =   345
   ClientWidth     =   8355
   LinkTopic       =   "Form1"
   MaxButton       =   0   'False
   MinButton       =   0   'False
   Moveable        =   0   'False
   ScaleHeight     =   2310
   ScaleWidth      =   8355
   StartUpPosition =   2  'CenterScreen
   Begin VB.Data Data1
      Caption         =   "Data1"
      Connect         =   "Access"
      DatabaseName    =   "C:¥JICA¥test.mde"
      DefaultCursorType=   0  'DefaultCursor
      DefaultType     =   2  'UseODBC
      Exclusive       =   0   'False
      Height          =   345
      Left            =   2520
      Options         =   0
      ReadOnly        =   -1  'True
      RecordsetType   =   1  'Dynaset
      RecordSource    =   "run_report"
      Top             =   1440
      Visible         =   0   'False
      Width           =   1575
   End
   Begin VB.TextBox MaxTime
      DataField       =   "MaxTime"
      DataSource      =   "Data1"
      Height          =   495
      Left            =   840
      TabIndex        =   2
      Text            =   "Text1"
      Top             =   1320
      Visible         =   0   'False
      Width           =   495
   End
   Begin VB.Timer Timer1
      Enabled         =   0   'False
      Interval        =   10
      Left            =   7680
      Top             =   1320
   End
   Begin MSComctlLib.ProgressBar PgBar
      Height          =   495
      Left            =   360
      TabIndex        =   0
      Top             =   600
      Width           =   7695
      _ExtentX        =   13573
      _ExtentY        =   873
      _Version        =   393216
      Appearance      =   1
   End
   Begin VB.Label Label1
      Caption         =   "Label1"
      Height          =   375
      Left            =   4800
      TabIndex        =   1
      Top             =   1440
      Width           =   2415
   End
End
Attribute VB_Name = "frm_running"
Attribute VB_GlobalNameSpace = False
Attribute VB_Creatable = False
Attribute VB_PredeclaredId = True
Attribute VB_Exposed = False
Option Explicit
Public x As Integer
```

```
Private Sub Form_Activate()
frm_running.PgBar.Max = frm_running.MaxTime
frm_running.Timer1.Enabled = True
End Sub

Private Sub Timer1_Timer()
Dim iMax As Integer
Dim i As Integer

i = frm_running.PgBar.Max / 100

'If i < 1 Then
'    i = 1
'End If

If frm_running.PgBar.Value = frm_running.PgBar.Max Then
    frm_running.Timer1.Enabled = False
    Unload Me
Else
    x = x + 1
    frm_running.PgBar.Value = x
    Label1.Caption = (x ¥ i) & "  Precents Succeed"
End If

End Sub
```

```
Type=Exe
Form=running.frm
Reference=*¥G{00020430-0000-0000-C000-000000000046}#2.0#0#..¥..¥WINDOWS¥SYSTEM¥StdOle2.Tlb
#OLE Automation
Object={CC0918E0-EFE5-11CF-A044-00AA00B6015C}#1.0#0; ASCTRLS.OCX
Object={831FDD16-0C5C-11D2-A9FC-0000F8754DA1}#2.0#0; MSCOMCTL.OCX
Reference=*¥G{00025E01-0000-0000-C000-000000000046}#4.0#0#..¥..¥PROGRAM FILES¥COMMON FILES
¥MICROSOFT SHARED¥DAO¥DAO350.DLL#Microsoft DAO 3.51 Object Library
IconForm="frm_running"
Startup="frm_running"
HelpFile=""
ExeName32="running.exe"
Path32="..."
Command32=""
Name="Project1"
HelpContextID="0"
CompatibleMode="0"
MajorVer=1
MinorVer=0
RevisionVer=0
AutoIncrementVer=0
ServerSupportFiles=0
VersionCompanyName="OFFICE OF INDUSTRIAL ECONOMIC"
CompilationType=0
OptimizationType=0
FavorPentiumPro(tm)=0
CodeViewDebugInfo=0
NoAliasing=0
BoundsCheck=0
OverflowCheck=0
FPPointCheck=0
FDIVCheck=0
UnroundedFP=0
StartMode=0
Unattended=0
Retained=0
ThreadPerObject=0
MaxNumberOfThreads=1
```

```
frm_running = 132, 132, 495, 484, Z, 88, 88, 641, 440, C
```

Oracle Script

```
spool F:¥db_IICa¥script¥log¥c_table.log
set termout on
set echo on

CREATE TABLE AggregationMaster (
        AggregationRange      VARCHAR2(1) NOT NULL,
        ISIC                  VARCHAR2(8) NOT NULL,
        IndustryType          VARCHAR2(100) NULL,
        IndustryTypeShortName VARCHAR2(20) NULL,
        DivCode               VARCHAR2(2) NULL,
        IssueDate             DATE NULL,
        ExpiredDate           DATE NULL
);

CREATE UNIQUE INDEX XPKAggregationMaster ON AggregationMaster
(
        AggregationRange,
        ISIC
);


CREATE TABLE AnnualIndices (
        AggregationRange      VARCHAR2(1) NOT NULL,
        ISIC                  VARCHAR2(8) NOT NULL,
        ItemType              VARCHAR2(1) NOT NULL,
        IndexCommodityCode    VARCHAR2(3) NOT NULL,
        Year                  NUMBER NOT NULL,
        SurveyScope           VARCHAR2(1) NOT NULL,
        IndexPR1              NUMBER NULL,
        IndexSP2              NUMBER NULL,
        IndexIV3              NUMBER NULL,
        IndexIR4              NUMBER NULL,
        IndexCU5              NUMBER NULL,
        IndexLP6              NUMBER NULL,
        IndexLI7              NUMBER NULL,
        IndexRI8              NUMBER NULL,
        RecDate               DATE NULL
);

CREATE UNIQUE INDEX XPKAnnualIndices ON AnnualIndices
(
        AggregationRange,
        ISIC,
        ItemType,
        IndexCommodityCode,
        Year,
        SurveyScope
);


CREATE TABLE AttributeMaster (
        Atrbt_Code            VARCHAR2(1) NOT NULL,
        Attribute             VARCHAR2(20) NULL
);

CREATE UNIQUE INDEX XPKAttributeMaster ON AttributeMaster
(
        Atrbt_Code
);


CREATE TABLE BalanceComparison (
        Seq                   SMALLINT NOT NULL,
        IndexType             VARCHAR2(1) NOT NULL,
        ComparisonTarget      VARCHAR2(1) NOT NULL,
        Year                  NUMBER NOT NULL,
        Month                 NUMBER NOT NULL,
        ISIC                  VARCHAR2(8) NOT NULL,
        IndustryTypeShortName VARCHAR2(20) NULL,
        IndexPMY              NUMBER NULL,
        IndexPre              NUMBER NULL,
        IndexRev              NUMBER NULL,
        IndexBalance          NUMBER NULL,
        GR_Pre                NUMBER NULL,
        GR_Rev                NUMBER NULL,
        CD_Pre                NUMBER NULL,
        CD_Rev                NUMBER NULL,
```

```
        CD_Balance              NUMBER NULL,
        SumIndexPMY             NUMBER NULL,
        SumIndexPre             NUMBER NULL,
        SumIndexRev             NUMBER NULL,
        SumIndexBalance         NUMBER NULL,
        SumGR_Pre               NUMBER NULL,
        SumGR_Rev               NUMBER NULL,
        SumCD_Pre               NUMBER NULL,
        SumCD_Rev               NUMBER NULL,
        SumCD_Balance           NUMBER NULL
);

CREATE UNIQUE INDEX XPKBalanceComparison ON BalanceComparison
(
        Seq,
        IndexType,
        ComparisonTarget,
        Year,
        Month,
        ISIC
);


CREATE TABLE BasePeriodFile (
        ISIC                    VARCHAR2(8) NOT NULL,
        Year                    NUMBER NOT NULL,
        Month                   NUMBER NOT NULL,
        RegistrationNo          VARCHAR2(20) NOT NULL,
        ItemType                VARCHAR2(1) NOT NULL,
        CommodityCode           VARCHAR2(3) NOT NULL,
        SurveyScope             VARCHAR2(1) NOT NULL,
        Version                 VARCHAR2(1) NOT NULL,
        BM_Inventory            NUMBER NULL,
        Atrbt_BM_Inventory      VARCHAR2(1) NULL,
        ProductionQTY           NUMBER NULL,
        Atrbt_ProductionQTY     VARCHAR2(1) NULL,
        Receipts                NUMBER NULL,
        Atrbt_Receipts          VARCHAR2(1) NULL,
        DomesticSales           NUMBER NULL,
        Atrbt_DomesticSales     VARCHAR2(1) NULL,
        Export                  NUMBER NULL,
        Atrbt_Export            VARCHAR2(1) NULL,
        OtherSales              NUMBER NULL,
        Atrbt_OtherSales        VARCHAR2(1) NULL,
        ME_Inventory            NUMBER NULL,
        Atrbt_ME_Inventory      VARCHAR2(1) NULL,
        Capacity                NUMBER NULL,
        Atrbt_Capacity          VARCHAR2(1) NULL,
        ShipmentValue           NUMBER NULL,
        Atrbt_ShipmentValue     VARCHAR2(1) NULL,
        SalesPlan               NUMBER NULL,
        Atrbt_SalesPlan         VARCHAR2(1) NULL,
        LaborTotal              NUMBER NULL,
        Atrbt_LaborTotal        VARCHAR2(1) NULL,
        Labor_SC                NUMBER NULL,
        Atrbt_Labor_SC          VARCHAR2(1) NULL,
        RwMt_MEInventory        NUMBER NULL,
        Atrbt_RwMt_MEInventory VARCHAR2(1) NULL,
        RwMt_MEInventoryValue NUMBER NULL,
        Atrbt_RwMt_MEInventoryValue VARCHAR2(1) NULL,
        BizCondition            NUMBER NULL,
        UnitPrice               NUMBER NULL,
        Remarks                 VARCHAR2(30) NULL,
        EstimatedMark           VARCHAR2(1) NULL,
        UserID                  VARCHAR2(10) NULL,
        RecDate                 DATE NULL
);

CREATE UNIQUE INDEX XPKBasePeriodFile ON BasePeriodFile
(
        ISIC,
        Year,
        Month,
        RegistrationNo,
        ItemType,
        CommodityCode,
        SurveyScope,
```

```
        Version
);


CREATE TABLE BatchControl (
        Year                    NUMBER NOT NULL,
        Month                   NUMBER NOT NULL,
        Pre_EstimatedDate       DATE NULL,
        PreliminaryDate         DATE NULL,
        PreliminaryStatus       VARCHAR2(1) NULL,
        Rev_EstimatedDate       DATE NULL,
        RevisedDate             DATE NULL,
        RevisedStatus           VARCHAR2(1) NULL,
        Year_EstimatedDate      DATE NULL,
        YearlyDate              DATE NULL,
        YearlyStatus            VARCHAR2(1) NULL
);

CREATE UNIQUE INDEX XPKBatchControl ON BatchControl
(
        Year,
        Month
);


CREATE TABLE BizCondition (
        BizLevel                VARCHAR2(1) NOT NULL,
        Condition               VARCHAR2(20) NULL
);

CREATE UNIQUE INDEX XPKBizCondition ON BizCondition
(
        BizLevel
);


CREATE TABLE ClassMaster (
        ISIC                    VARCHAR2(8) NOT NULL,
        IndustryType            VARCHAR2(100) NULL,
        IndustryTypeShortName VARCHAR2(20) NULL,
        DivCode                 VARCHAR2(2) NULL,
        IssueDate               DATE NULL,
        ExpiredDate             DATE NULL
);

CREATE UNIQUE INDEX XPKClassMaster ON ClassMaster
(
        ISIC
);


CREATE TABLE CollectionRate (
        Seq                     SMALLINT NOT NULL,
        ISIC                    VARCHAR2(8) NOT NULL,
        RegistrationNo          VARCHAR2(20) NOT NULL,
        EstablishmentName       VARCHAR2(100) NULL,
        Tel                     VARCHAR2(255) NULL,
        Fax                     VARCHAR2(80) NULL,
        Respondent              VARCHAR2(255) NULL,
        Year                    NUMBER NULL,
        Month                   NUMBER NULL
);

CREATE UNIQUE INDEX XPKCollectionRate ON CollectionRate
(
        Seq,
        ISIC,
        RegistrationNo
);


CREATE TABLE CommodityMaster (
        ISIC                    VARCHAR2(8) NOT NULL,
        ItemType                VARCHAR2(1) NOT NULL,
        CommodityCode           VARCHAR2(3) NOT NULL,
        UnitCode                VARCHAR2(2) NULL,
        CommodityName           VARCHAR2(100) NULL,
```

```
        CommodityShortName    VARCHAR2(20) NULL,
        CapacityCode          VARCHAR2(3) NULL,
        IndexScopePR1         VARCHAR2(1) NULL,
        IndexScopeSP2         VARCHAR2(1) NULL,
        IndexScopeIV3         VARCHAR2(1) NULL,
        IndexScopeIR4         VARCHAR2(1) NULL,
        IndexScopeCU5         VARCHAR2(1) NULL,
        IndexScopeLP6         VARCHAR2(1) NULL,
        IndexScopeLI7         VARCHAR2(1) NULL,
        IndexScopeRI8         VARCHAR2(1) NULL,
        SortNo                SMALLINT NULL,
        DivCode               VARCHAR2(2) NULL,
        IssueDate             DATE NULL,
        ExpiredDate           DATE NULL
);

CREATE UNIQUE INDEX XPKCommodityMaster ON CommodityMaster
(
        ISIC,
        ItemType,
        CommodityCode
);


CREATE TABLE ContributionForAll1 (
        ISIC                  VARCHAR2(8) NOT NULL,
        Year                  NUMBER NOT NULL,
        Month                 NUMBER NOT NULL,
        SurveyScope           VARCHAR2(1) NOT NULL,
        Pre_Rev_Mark          VARCHAR2(1) NOT NULL,
        ComparisonTarget      VARCHAR2(1) NOT NULL,
        Seq                   SMALLINT NOT NULL,
        CD_PR1                NUMBER NULL,
        CD_SP2                NUMBER NULL,
        CD_IV3                NUMBER NULL,
        CD_IR4                NUMBER NULL,
        CD_CU5                NUMBER NULL,
        CD_LP6                NUMBER NULL,
        CD_LI7                NUMBER NULL,
        CD_RI8                NUMBER NULL,
        CR_PR1                NUMBER NULL,
        CR_SP2                NUMBER NULL,
        CR_IV3                NUMBER NULL,
        CR_IR4                NUMBER NULL,
        CR_CU5                NUMBER NULL,
        CR_LP6                NUMBER NULL,
        CR_LI7                NUMBER NULL,
        CR_RI8                NUMBER NULL
);

CREATE UNIQUE INDEX XPKContributionForAll1 ON ContributionForAll1
(
        ISIC,
        Year,
        Month,
        SurveyScope,
        Pre_Rev_Mark,
        ComparisonTarget,
        Seq
);


CREATE TABLE ContributionForAll2 (
        ISIC                  VARCHAR2(8) NOT NULL,
        ItemType              VARCHAR2(1) NOT NULL,
        CommodityCode         VARCHAR2(3) NOT NULL,
        Year                  NUMBER NOT NULL,
        Month                 NUMBER NOT NULL,
        SurveyScope           VARCHAR2(1) NOT NULL,
        Pre_Rev_Mark          VARCHAR2(1) NOT NULL,
        ComparisonTarget      VARCHAR2(1) NOT NULL,
        Seq                   SMALLINT NOT NULL,
        CD_PR1                NUMBER NULL,
        CD_SP2                NUMBER NULL,
        CD_IV3                NUMBER NULL,
        CD_IR4                NUMBER NULL,
        CD_CU5                NUMBER NULL,
```

```
        CD_LP6                  NUMBER NULL,
        CD_LI7                  NUMBER NULL,
        CD_RI8                  NUMBER NULL,
        CR_PR1                  NUMBER NULL,
        CR_SP2                  NUMBER NULL,
        CR_IV3                  NUMBER NULL,
        CR_IR4                  NUMBER NULL,
        CR_CU5                  NUMBER NULL,
        CR_LP6                  NUMBER NULL,
        CR_LI7                  NUMBER NULL,
        CR_RI8                  NUMBER NULL
);

CREATE UNIQUE INDEX XPKContributionForAll2 ON ContributionForAll2
(
        ISIC,
        ItemType,
        CommodityCode,
        Year,
        Month,
        SurveyScope,
        Pre_Rev_Mark,
        ComparisonTarget,
        Seq
);


CREATE TABLE ContributionForCommodity (
        ISIC                    VARCHAR2(8) NOT NULL,
        ItemType                VARCHAR2(1) NOT NULL,
        CommodityCode           VARCHAR2(3) NOT NULL,
        RegistrationNo          VARCHAR2(20) NOT NULL,
        Year                    NUMBER NOT NULL,
        Month                   NUMBER NOT NULL,
        SurveyScope             VARCHAR2(1) NOT NULL,
        Pre_Rev_Mark            VARCHAR2(1) NOT NULL,
        ComparisonTarget        VARCHAR2(1) NOT NULL,
        Seq                     SMALLINT NOT NULL,
        CR_Production           NUMBER NULL,
        CR_ShipmentQty          NUMBER NULL,
        CR_MEInventory          NUMBER NULL,
        CR_ShipmentVal          NUMBER NULL,
        CR_RawMaterial          NUMBER NULL,
        CR_Capacity             NUMBER NULL
);

CREATE UNIQUE INDEX XPKContrbutionForCommodity ON ContributionForCommodity
(
        ISIC,
        ItemType,
        CommodityCode,
        RegistrationNo,
        Year,
        Month,
        SurveyScope,
        Pre_Rev_Mark,
        ComparisonTarget,
        Seq
);


CREATE TABLE ContributionForIndustry (
        ISIC                    VARCHAR2(8) NOT NULL,
        ItemType                VARCHAR2(1) NOT NULL,
        CommodityCode           VARCHAR2(3) NOT NULL,
        Year                    NUMBER NOT NULL,
        Month                   NUMBER NOT NULL,
        SurveyScope             VARCHAR2(1) NOT NULL,
        Pre_Rev_Mark            VARCHAR2(1) NOT NULL,
        ComparisonTarget        VARCHAR2(1) NOT NULL,
        Seq                     SMALLINT NOT NULL,
        CD_PR1                  NUMBER NULL,
        CD_SP2                  NUMBER NULL,
        CD_IV3                  NUMBER NULL,
        CD_IR4                  NUMBER NULL,
        CD_CU5                  NUMBER NULL,
        CD_LP6                  NUMBER NULL,
```

```
        CD_LI7                  NUMBER NULL,
        CD_RI8                  NUMBER NULL,
        CR_PR1                  NUMBER NULL,
        CR_SP2                  NUMBER NULL,
        CR_IV3                  NUMBER NULL,
        CR_IR4                  NUMBER NULL,
        CR_CU5                  NUMBER NULL,
        CR_LP6                  NUMBER NULL,
        CR_LI7                  NUMBER NULL,
        CR_RI8                  NUMBER NULL
);

CREATE UNIQUE INDEX XPKContributionForQuestionnair ON ContributionForIndustry
(
        ISIC,
        ItemType,
        CommodityCode,
        Year,
        Month,
        SurveyScope,
        Pre_Rev_Mark,
        ComparisonTarget,
        Seq
);


CREATE TABLE DeflatorMaster (
        ISIC                    VARCHAR2(8) NOT NULL,
        ItemType                VARCHAR2(1) NOT NULL,
        CommodityCode           VARCHAR2(3) NOT NULL,
        Year                    NUMBER NOT NULL,
        Month                   NUMBER NOT NULL,
        SurveyScope             VARCHAR2(1) NOT NULL,
        Version                 VARCHAR2(1) NOT NULL,
        ProductionQty           NUMBER NULL
                                        CONSTRAINT DeflatorItem
                                                CHECK (ProductionQty > 0),
        ShipmentQTY             NUMBER NULL
                                        CONSTRAINT DeflatorItem2
                                                CHECK (ShipmentQTY > 0),
        ME_Inventory            NUMBER NULL
                                        CONSTRAINT DeflatorItem3
                                                CHECK (ME_Inventory > 0),
        Capacity                NUMBER NULL
                                        CONSTRAINT DeflatorItem4
                                                CHECK (Capacity > 0),
        RwMt_MEInventory        NUMBER NULL
                                        CONSTRAINT DeflatorItem5
                                                CHECK (RwMt_MEInventory > 0)
);

CREATE UNIQUE INDEX XPKDeflatorMaster ON DeflatorMaster
(
        ISIC,
        ItemType,
        CommodityCode,
        Year,
        Month,
        SurveyScope,
        Version
);


CREATE TABLE DeviationRangeMaster (
        ISIC                    VARCHAR2(8) NOT NULL,
        DR_ComparePreMonth      NUMBER NULL,
        DR_ComparePreYear       NUMBER NULL,
        DR_UnitPrice            NUMBER NULL,
        DR_LaborInput           NUMBER NULL,
        DR_LaborHour            NUMBER NULL,
        DR_LaborDays            NUMBER NULL
);

CREATE UNIQUE INDEX XPKDeviationRangeMaster ON DeviationRangeMaster
(
        ISIC
);
```

```
CREATE TABLE ErrorLog (
        ISIC                    VARCHAR2(8) NOT NULL,
        Year                    NUMBER NOT NULL,
        Month                   NUMBER NOT NULL,
        RegistrationNo          VARCHAR2(20) NOT NULL,
        ItemType                VARCHAR2(1) NOT NULL,
        CommodityCode           VARCHAR2(3) NOT NULL,
        MessageCode             VARCHAR2(3) NOT NULL
);

CREATE UNIQUE INDEX XPKErrorLog ON ErrorLog
(
        ISIC,
        Year,
        Month,
        RegistrationNo,
        ItemType,
        CommodityCode,
        MessageCode
);


CREATE TABLE EstablishmentMaster (
        ISIC                    VARCHAR2(8) NOT NULL,
        RegistrationNo          VARCHAR2(20) NOT NULL,
        EstablishmentName       VARCHAR2(100) NULL,
        EstablishmentTel        VARCHAR2(255) NULL,
        EstablishmentFax        VARCHAR2(80) NULL,
        EstablishmentAdd        VARCHAR2(100) NULL,
        Moo                     NUMBER NULL,
        Soi                     VARCHAR2(80) NULL,
        Road                    VARCHAR2(80) NULL,
        Tumbol                  VARCHAR2(80) NULL,
        Ampur                   VARCHAR2(80) NULL,
        Province                VARCHAR2(80) NULL,
        PostalCode              NUMBER NULL,
        CompanyName             VARCHAR2(100) NULL,
        CompanyTel              VARCHAR2(80) NULL,
        CompanyFax              VARCHAR2(80) NULL,
        CompanyAdd              VARCHAR2(100) NULL,
        NameofRespondent        VARCHAR2(255) NULL,
        EstimationCode          VARCHAR2(1) NULL,
        SurveyScope             VARCHAR2(1) NULL,
        ContinuousRespondent    VARCHAR2(1) NULL,
        DivCode                 VARCHAR2(2) NULL,
        IssueDate               DATE NULL,
        ExpiredDate             DATE NULL
);

CREATE UNIQUE INDEX XPKEstablishmentMaster ON EstablishmentMaster
(
        ISIC,
        RegistrationNo
);


CREATE TABLE GrowthRate (
        AggregationRange        VARCHAR2(1) NOT NULL,
        ISIC                    VARCHAR2(8) NOT NULL,
        ItemType                VARCHAR2(1) NOT NULL,
        IndexCommodityCode      VARCHAR2(3) NOT NULL,
        Year                    NUMBER NOT NULL,
        Month                   NUMBER NOT NULL,
        SurveyScope             VARCHAR2(1) NOT NULL,
        Pre_Rev_Mark            VARCHAR2(1) NOT NULL,
        ComparisonTarget        VARCHAR2(1) NOT NULL,
        GR_PR1                  NUMBER NULL,
        GR_SP2                  NUMBER NULL,
        GR_IV3                  NUMBER NULL,
        GR_IR4                  NUMBER NULL,
        GR_CU5                  NUMBER NULL,
        GR_LP6                  NUMBER NULL,
        GR_LI7                  NUMBER NULL,
        GR_RI8                  NUMBER NULL,
        GR_InventoryQTY_IR      NUMBER NULL,
```

```
        GR_ShipmentQTY_IR     NUMBER NULL,
        GR_ProductionVal_LP   NUMBER NULL,
        GR_ManHour_LP         NUMBER NULL,
        GR_ProductionQTY_CU   NUMBER NULL,
        GR_Capacity_CU        NUMBER NULL
);

CREATE UNIQUE INDEX XPKGrowthRate ON GrowthRate
(
        AggregationRange,
        ISIC,
        ItemType,
        IndexCommodityCode,
        Year,
        Month,
        SurveyScope,
        Pre_Rev_Mark,
        ComparisonTarget
);


CREATE TABLE GrowthRateForEstimation (
        ISIC                  VARCHAR2(8) NOT NULL,
        ItemType              VARCHAR2(1) NOT NULL,
        CommodityCode         VARCHAR2(3) NOT NULL,
        BM_Inventory          NUMBER NULL,
        ProductionQTY         NUMBER NULL,
        Receipts              NUMBER NULL,
        DomesticSales         NUMBER NULL,
        Export                NUMBER NULL,
        OtherSales            NUMBER NULL,
        ME_Inventory          NUMBER NULL,
        Capacity              NUMBER NULL,
        ShipmentValue         NUMBER NULL,
        SalesPlan             NUMBER NULL,
        LaborTotal            NUMBER NULL,
        Labor_SC              NUMBER NULL,
        RwMt_MEInventory      NUMBER NULL,
        RwMt_MEInventoryValue NUMBER NULL,
        UnitPrice             NUMBER NULL
);

CREATE UNIQUE INDEX XPKGrowthRateForEstimation ON GrowthRateForEstimation
(
        ISIC,
        ItemType,
        CommodityCode
);


CREATE TABLE GrowthRateQTY (
        ISIC                  VARCHAR2(8) NOT NULL,
        ItemType              VARCHAR2(1) NOT NULL,
        CommodityCode         VARCHAR2(3) NOT NULL,
        Year                  NUMBER NOT NULL,
        Month                 NUMBER NOT NULL,
        SurveyScope           VARCHAR2(1) NOT NULL,
        Pre_Rev_Mark          VARCHAR2(1) NOT NULL,
        ComparisonTarget      VARCHAR2(1) NOT NULL,
        Seq                   SMALLINT NOT NULL,
        GR_Production         NUMBER NULL,
        GR_ShipmentQty        NUMBER NULL,
        GR_MEInventory        NUMBER NULL,
        GR_ShipmentVal        NUMBER NULL,
        GR_RawMaterial        NUMBER NULL
);

CREATE UNIQUE INDEX XPKGrowthRateQTY ON GrowthRateQTY
(
        ISIC,
        ItemType,
        CommodityCode,
        Year,
        Month,
        SurveyScope,
        Pre_Rev_Mark,
        ComparisonTarget,
```

```
        Seq
);

CREATE TABLE Index_Wk (
        AggregationRange      VARCHAR2(1) NOT NULL,
        ISIC                  VARCHAR2(8) NOT NULL,
        ItemType              VARCHAR2(1) NOT NULL,
        IndexCommodityCode    VARCHAR2(3) NOT NULL,
        Year                  NUMBER NOT NULL,
        Month                 NUMBER NOT NULL,
        SurveyScope           VARCHAR2(1) NOT NULL,
        Pre_Rev_Mark          VARCHAR2(1) NOT NULL,
        IndexPR1              NUMBER NULL,
        IndexSP2              NUMBER NULL,
        IndexIV3              NUMBER NULL,
        IndexIR4              NUMBER NULL,
        IndexCU5              NUMBER NULL,
        IndexLP6              NUMBER NULL,
        IndexLI7              NUMBER NULL,
        IndexRI8              NUMBER NULL
);

CREATE UNIQUE INDEX XPKIndex_Wk ON Index_Wk
(
        AggregationRange,
        ISIC,
        ItemType,
        IndexCommodityCode,
        Year,
        Month,
        SurveyScope,
        Pre_Rev_Mark
);

CREATE TABLE IndexList (
        Seq                   NUMBER NOT NULL,
        ReportType            VARCHAR2(1) NOT NULL,
        IndexType             VARCHAR2(1) NOT NULL,
        Year                  NUMBER NOT NULL,
        Month                 NUMBER NOT NULL,
        ISIC                  VARCHAR2(8) NOT NULL,
        CommodityCode         VARCHAR2(3) NOT NULL,
        IndustryTypeShortName VARCHAR2(20) NULL,
        CommodityShortName    VARCHAR2(20) NULL,
        IndexCM               NUMBER NULL,
        IndexPM               NUMBER NULL,
        IndexPY               NUMBER NULL,
        GR_CPM                NUMBER NULL,
        GR_CPY                NUMBER NULL,
        CD_CPM                NUMBER NULL,
        CD_CPY                NUMBER NULL,
        CR_CPM                NUMBER NULL,
        CR_CPY                NUMBER NULL,
        SumIndexCM            NUMBER NULL,
        SumIndexPM            NUMBER NULL,
        SumIndexPY            NUMBER NULL,
        SumGR_CPM             NUMBER NULL,
        SumGR_CPY             NUMBER NULL,
        SumCD_CPM             NUMBER NULL,
        SumCD_CPY             NUMBER NULL,
        SumCR_CPM             NUMBER NULL,
        SumCR_CPY             NUMBER NULL
);

CREATE UNIQUE INDEX PK_IndexList ON IndexList
(
        Seq,
        ReportType,
        IndexType,
        Year,
        Month,
        ISIC,
        CommodityCode
);
```

```
CREATE TABLE Indices (
        AggregationRange        VARCHAR2(1) NOT NULL,
        ISIC                    VARCHAR2(8) NOT NULL,
        ItemType                VARCHAR2(1) NOT NULL,
        IndexCommodityCode      VARCHAR2(3) NOT NULL,
        Year                    NUMBER NOT NULL,
        Month                   NUMBER NOT NULL,
        SurveyScope             VARCHAR2(1) NOT NULL,
        Pre_Rev_Mark            VARCHAR2(1) NOT NULL,
        IndexPR1                NUMBER NULL,
        IndexSP2                NUMBER NULL,
        IndexIV3                NUMBER NULL,
        IndexIR4                NUMBER NULL,
        IndexCU5                NUMBER NULL,
        IndexLP6                NUMBER NULL,
        IndexLI7                NUMBER NULL,
        IndexRI8                NUMBER NULL,
        RecDate                 DATE NULL
);

CREATE UNIQUE INDEX XPKIndicies ON Indices
(
        AggregationRange,
        ISIC,
        ItemType,
        IndexCommodityCode,
        Year,
        Month,
        SurveyScope,
        Pre_Rev_Mark
);


CREATE TABLE LinkMaster (
        ISIC                    VARCHAR2(8) NOT NULL,
        ItemType                VARCHAR2(1) NOT NULL,
        CommodityCode           VARCHAR2(3) NOT NULL,
        Year                    NUMBER NOT NULL,
        Month                   NUMBER NOT NULL,
        SurveyScope             VARCHAR2(1) NOT NULL,
        Version                 VARCHAR2(1) NOT NULL,
        ProductionQTY           NUMBER NULL,
        ShipmentQTY             NUMBER NULL,
        ME_Inventory            NUMBER NULL,
        Capacity                NUMBER NULL,
        ShipmentValue           NUMBER NULL,
        Worker                  NUMBER NULL,
        WorkingHour             NUMBER NULL,
        WorkingDay              NUMBER NULL,
        RwMt_MEInventory        NUMBER NULL
);

CREATE UNIQUE INDEX XPKLinkMaster ON LinkMaster
(
        ISIC,
        ItemType,
        CommodityCode,
        Year,
        Month,
        SurveyScope,
        Version
);


CREATE TABLE MessageMaster (
        MessageCode             VARCHAR2(3) NOT NULL,
        Message                 VARCHAR2(200) NULL
);

CREATE UNIQUE INDEX XPKMessageMaster ON MessageMaster
(
        MessageCode
);


CREATE TABLE MonthMaster (
```

```
        Month                   VARCHAR2(2) NOT NULL,
        MonthName               VARCHAR2(15) NULL
);

CREATE UNIQUE INDEX XPKMonthMaster ON MonthMaster
(
        Month
);


CREATE TABLE PastRecord (
        ISIC                    VARCHAR2(8) NOT NULL,
        Year                    NUMBER NOT NULL,
        Month                   NUMBER NOT NULL,
        RegistrationNo          VARCHAR2(20) NOT NULL,
        ItemType                VARCHAR2(1) NOT NULL,
        CommodityCode           VARCHAR2(3) NOT NULL,
        Pre_Rev_Mark            VARCHAR2(1) NOT NULL,
        BM_Inventory            NUMBER NULL,
        Atrbt_BM_Inventory      VARCHAR2(1) NULL,
        ProductionQTY           NUMBER NULL,
        Atrbt_ProductionQTY     VARCHAR2(1) NULL,
        Receipts                NUMBER NULL,
        Atrbt_Receipts          VARCHAR2(1) NULL,
        DomesticSales           NUMBER NULL,
        Atrbt_DomesticSales     VARCHAR2(1) NULL,
        Export                  NUMBER NULL,
        Atrbt_Export            VARCHAR2(1) NULL,
        OtherSales              NUMBER NULL,
        Atrbt_OtherSales        VARCHAR2(1) NULL,
        ME_Inventory            NUMBER NULL,
        Atrbt_ME_Inventory      VARCHAR2(1) NULL,
        Capacity                NUMBER NULL,
        Atrbt_Capacity          VARCHAR2(1) NULL,
        ShipmentValue           NUMBER NULL,
        Atrbt_ShipmentValue     VARCHAR2(1) NULL,
        SalesPlan               NUMBER NULL,
        Atrbt_SalesPlan         VARCHAR2(1) NULL,
        LaborTotal              NUMBER NULL,
        Atrbt_LaborTotal        VARCHAR2(1) NULL,
        Labor_SC                NUMBER NULL,
        Atrbt_Labor_SC          VARCHAR2(1) NULL,
        RwMt_MEInventory        NUMBER NULL,
        Atrbt_RwMt_MEInventory VARCHAR2(1) NULL,
        RwMt_MEInventoryValue NUMBER NULL,
        Atrbt_RwMt_MEInventoryValue VARCHAR2(1) NULL,
        BizCondition            NUMBER NULL,
        UnitPrice               NUMBER NULL,
        Remarks                 VARCHAR2(30) NULL,
        EstimatedMark           VARCHAR2(1) NULL,
        UserID                  VARCHAR2(10) NULL,
        RecDate                 DATE NULL
);

CREATE UNIQUE INDEX XPKPastRecord ON PastRecord
(
        ISIC,
        Year,
        Month,
        RegistrationNo,
        ItemType,
        CommodityCode,
        Pre_Rev_Mark
);


CREATE TABLE SeasonalAdjustedIndices (
        AggregationRange        VARCHAR2(1) NOT NULL,
        ISIC                    VARCHAR2(8) NOT NULL,
        ItemType                VARCHAR2(1) NOT NULL,
        IndexCommodityCode      VARCHAR2(3) NOT NULL,
        Year                    NUMBER NOT NULL,
        Month                   NUMBER NOT NULL,
        SurveyScope             VARCHAR2(1) NOT NULL,
        Pre_Rev_Mark            VARCHAR2(1) NOT NULL,
        IndexPR1                NUMBER NULL,
        IndexSP2                NUMBER NULL,
```

```
        IndexIV3                NUMBER NULL,
        IndexIR4                NUMBER NULL,
        IndexCU5                NUMBER NULL,
        IndexLP6                NUMBER NULL,
        IndexLI7                NUMBER NULL,
        IndexRI8                NUMBER NULL,
        RecDate                 DATE NULL
);

CREATE UNIQUE INDEX XPKSeasonalAdjustedIndices ON SeasonalAdjustedIndices
(
        AggregationRange,
        ISIC,
        ItemType,
        IndexCommodityCode,
        Year,
        Month,
        SurveyScope,
        Pre_Rev_Mark
);


CREATE TABLE SeasonalAdjustmentMaster (
        AggregationRange        VARCHAR2(1) NOT NULL,
        ISIC                    VARCHAR2(8) NOT NULL,
        ItemType                VARCHAR2(1) NOT NULL,
        IndexCommodityCode      VARCHAR2(3) NOT NULL,
        Year                    NUMBER NOT NULL,
        Month                   NUMBER NOT NULL,
        SurveyScope             VARCHAR2(1) NOT NULL,
        Version                 VARCHAR2(1) NOT NULL,
        IndexPR1                NUMBER NULL,
        IndexSP2                NUMBER NULL,
        IndexIV3                NUMBER NULL,
        IndexIR4                NUMBER NULL,
        IndexCU5                NUMBER NULL,
        IndexLP6                NUMBER NULL,
        IndexLI7                NUMBER NULL,
        IndexRI8                NUMBER NULL
);

CREATE UNIQUE INDEX XPKSeasonalAdjustmentMaster ON SeasonalAdjustmentMaster
(
        AggregationRange,
        ISIC,
        ItemType,
        IndexCommodityCode,
        Year,
        Month,
        SurveyScope,
        Version
);


CREATE TABLE SeqControl (
        OutputID                VARCHAR2(2) NOT NULL,
        SeqMax                  SMALLINT DEFAULT 0 NULL
);

CREATE UNIQUE INDEX XPKSeqControl ON SeqControl
(
        OutputID
);


CREATE TABLE SurveyData (
        ISIC                    VARCHAR2(8) NOT NULL,
        Year                    NUMBER NOT NULL,
        Month                   NUMBER NOT NULL,
        RegistrationNo          VARCHAR2(20) NOT NULL,
        ItemType                VARCHAR2(1) NOT NULL,
        CommodityCode           VARCHAR2(3) NOT NULL,
        BM_Inventory            NUMBER NULL,
        Atrbt_BM_Inventory      VARCHAR2(1) DEFAULT 'U' NULL,
        ProductionQTY           NUMBER NULL,
        Atrbt_ProductionQTY     VARCHAR2(1) DEFAULT 'U' NULL,
        Receipts                NUMBER NULL,
```

```
        Atrbt_Receipts        VARCHAR2(1) DEFAULT 'U' NULL,
        DomesticSales         NUMBER NULL,
        Atrbt_DomesticSales   VARCHAR2(1) DEFAULT 'U' NULL,
        Export                NUMBER NULL,
        Atrbt_Export          VARCHAR2(1) DEFAULT 'U' NULL,
        OtherSales            NUMBER NULL,
        Atrbt_OtherSales      VARCHAR2(1) DEFAULT 'U' NULL,
        ME_Inventory          NUMBER NULL,
        Atrbt_ME_Inventory    VARCHAR2(1) DEFAULT 'U' NULL,
        Capacity              NUMBER NULL,
        Atrbt_Capacity        VARCHAR2(1) DEFAULT 'U' NULL,
        ShipmentValue         NUMBER NULL,
        Atrbt_ShipmentValue   VARCHAR2(1) DEFAULT 'U' NULL,
        SalesPlan             NUMBER NULL,
        Atrbt_SalesPlan       VARCHAR2(1) DEFAULT 'U' NULL,
        LaborTotal            NUMBER NULL,
        Atrbt_LaborTotal      VARCHAR2(1) DEFAULT 'U' NULL,
        Labor_SC              NUMBER NULL,
        Atrbt_Labor_SC        VARCHAR2(1) DEFAULT 'U' NULL,
        RwMt_MEInventory      NUMBER NULL,
        Atrbt_RwMt_MEInventory VARCHAR2(1) DEFAULT 'U' NULL,
        RwMt_MEInventoryValue NUMBER NULL,
        Atrbt_RwMt_MEInventoryValue VARCHAR2(1) DEFAULT 'U' NULL,
        BizCondition          VARCHAR2(1) NULL,
        UnitPrice             NUMBER NULL,
        Remarks               VARCHAR2(30) NULL,
        UserID                VARCHAR2(10) NULL,
        RecDate               DATE NULL
);

CREATE UNIQUE INDEX XPKSurveyData ON SurveyData
(
        ISIC,
        Year,
        Month,
        RegistrationNo,
        ItemType,
        CommodityCode
);


CREATE TABLE SurveyHeader (
        ISIC                  VARCHAR2(8) NOT NULL,
        Year                  NUMBER NOT NULL,
        Month                 NUMBER NOT NULL,
        RegistrationNo        VARCHAR2(20) NOT NULL,
        EstimatedMark         VARCHAR2(1) DEFAULT 0 NULL,
        RevisedStatus         VARCHAR2(1) NULL,
        YearlyStatus          VARCHAR2(1) DEFAULT 0 NULL
);

CREATE UNIQUE INDEX XPKSurveyHeader ON SurveyHeader
(
        ISIC,
        Year,
        Month,
        RegistrationNo
);


CREATE TABLE SurveyScopeMaster (
        SurveyScope           VARCHAR2(1) NOT NULL,
        ScopeShortName        VARCHAR2(25) NULL,
        ScopeName             VARCHAR2(100) NULL
);

CREATE UNIQUE INDEX XPKSurveyScope ON SurveyScopeMaster
(
        SurveyScope
);


CREATE TABLE TimeFigures (
        Seq                   NUMBER NOT NULL,
        FigureType            VARCHAR2(1) NOT NULL,
        ReportType            VARCHAR2(1) NOT NULL,
        Year                  NUMBER NOT NULL,
```

```
        ISIC                    VARCHAR2(8) NOT NULL,
        CommodityCode           VARCHAR2(3) NOT NULL,
        IndustryTypeShortName VARCHAR2(20) NULL,
        CommodityShortName      VARCHAR2(20) NULL,
        UnitName                VARCHAR2(50) NULL,
        PYA                     NUMBER NULL,
        PYT                     NUMBER NULL,
        CYT                     NUMBER NULL,
        CYM01                   NUMBER NULL,
        CYM02                   NUMBER NULL,
        CYM03                   NUMBER NULL,
        CYM04                   NUMBER NULL,
        CYM05                   NUMBER NULL,
        CYM06                   NUMBER NULL,
        CYM07                   NUMBER NULL,
        CYM08                   NUMBER NULL,
        CYM09                   NUMBER NULL,
        CYM10                   NUMBER NULL,
        CYM11                   NUMBER NULL,
        CYM12                   NUMBER NULL,
        PY2T                    NUMBER NULL,
        PYM01                   NUMBER NULL,
        PYM02                   NUMBER NULL,
        PYM03                   NUMBER NULL,
        PYM04                   NUMBER NULL,
        PYM05                   NUMBER NULL,
        PYM06                   NUMBER NULL,
        PYM07                   NUMBER NULL,
        PYM08                   NUMBER NULL,
        PYM09                   NUMBER NULL,
        PYM10                   NUMBER NULL,
        PYM11                   NUMBER NULL,
        PYM12                   NUMBER NULL
);

CREATE UNIQUE INDEX PK_TimeFigures ON TimeFigures
(
        Seq,
        FigureType,
        ReportType,
        Year,
        ISIC,
        CommodityCode
);


CREATE TABLE UnitMaster (
        UnitCode                VARCHAR2(2) NOT NULL,
        UnitName                VARCHAR2(50) NULL,
        ThaiUnitName            VARCHAR2(50) NULL
);

CREATE UNIQUE INDEX XPKUnitMaster ON UnitMaster
(
        UnitCode
);


CREATE TABLE UserIDMaster (
        UserID                  VARCHAR2(10) NOT NULL,
        Password                VARCHAR2(10) NULL,
        UserName                VARCHAR2(40) NULL,
        Section                 VARCHAR2(20) NULL,
        Jurisdiction            VARCHAR2(2) NULL
);

CREATE UNIQUE INDEX XPKUseIdMaster ON UserIDMaster
(
        UserID
);


CREATE TABLE WarningLog (
        ISIC                    VARCHAR2(8) NOT NULL,
        Year                    NUMBER NOT NULL,
        Month                   NUMBER NOT NULL,
        RegistrationNo          VARCHAR2(20) NOT NULL,
```

```
        ItemType                VARCHAR2(1) NOT NULL,
        CommodityCode           VARCHAR2(3) NOT NULL,
        MessageCode             VARCHAR2(3) NOT NULL
);

CREATE UNIQUE INDEX XPKWarningLog ON WarningLog
(
        ISIC,
        Year,
        Month,
        RegistrationNo,
        ItemType,
        CommodityCode,
        MessageCode
);


CREATE TABLE WeightAggregation (
        AggregationRange        VARCHAR2(1) NOT NULL,
        ISIC                    VARCHAR2(8) NOT NULL,
        ItemType                VARCHAR2(1) NOT NULL,
        CommodityCode           VARCHAR2(3) NOT NULL,
        SurveyScope             VARCHAR2(1) NOT NULL,
        Version                 VARCHAR2(1) NOT NULL,
        WeightPR1               NUMBER NULL,
        WeightSP2               NUMBER NULL,
        WeightIV3               NUMBER NULL,
        WeightIR4               NUMBER NULL,
        WeightCU5               NUMBER NULL,
        WeightLP6               NUMBER NULL,
        WeightLI7               NUMBER NULL,
        WeightRI8               NUMBER NULL,
        IntegratedKey           VARCHAR2(8) NULL
);

CREATE UNIQUE INDEX XPKWeightAggregation ON WeightAggregation
(
        AggregationRange,
        ISIC,
        ItemType,
        CommodityCode,
        SurveyScope,
        Version
);


CREATE TABLE WeightMaster (
        ISIC                    VARCHAR2(8) NOT NULL,
        ItemType                VARCHAR2(1) NOT NULL,
        CommodityCode           VARCHAR2(3) NOT NULL,
        SurveyScope             VARCHAR2(1) NOT NULL,
        Version                 VARCHAR2(1) NOT NULL,
        WeightPR                NUMBER NULL,
        WeightSP                NUMBER NULL,
        WeightIV                NUMBER NULL
);

CREATE UNIQUE INDEX XPKWeightMaster ON WeightMaster
(
        ISIC,
        ItemType,
        CommodityCode,
        SurveyScope,
        Version
);


commit work;

spool off;

exit
```

```
spool F:¥db_IICa¥script¥log¥c_user.log
set termout on
set echo on

-- Super User
create user ADMIN
       identified by superadmin
       default tablespace DATA
       temporary tablespace TEMP;
-- Common User
create user JICA
       identified by jica
       default tablespace DATA
       temporary tablespace TEMP;
-------------------------------------------------------------
-- Create Roll
-------------------------------------------------------------
create role JICA_COMMON_ROLE;
create role JICA_SUPER_ROLE;

grant create session,
      select any sequence,
      insert any table,
      update any table,
      delete any table,
      create synonym,
      drop any synonym,
      execute any procedure to JICA_COMMON_ROLE;

grant --select any table,
      --insert any table,
      --update any table,
      --delete any table,
      create session,
      create synonym,
      drop any synonym,
      execute any procedure,
      create any index,
      create sequence,
      create table,
      create trigger,
      create view,
      create any procedure,
      backup any table,
      drop any index,
      drop any sequence,
      drop any table,
      drop any trigger,
      drop any procedure,
      drop any view,
      restricted session to JICA_SUPER_ROLE;

grant JICA_COMMON_ROLE to JICA_SUPER_ROLE;

-------------------------------------------------------------
-- Give roll to each user
-------------------------------------------------------------
grant JICA_SUPER_ROLE to ADMIN;
grant unlimited tablespace to ADMIN;
grant JICA_SUPER_ROLE to JICA;
grant unlimited tablespace to JICA;
-------------------------------------------------------------
commit work;

spool off;

exit
```

```
#
# $Header: init.ora 05-jun-97.14:56:46 hpiao Exp
#
# Copyright (c) 1991, 1997 by Oracle Corporation
#
###############################################################################
# Example INIT.ORA file
#
# This file is provided by Oracle Corporation to help you customize
# your RDBMS installation for your site.  Important system parameters
# are discussed, and example settings given.
#
# Some parameter settings are generic to any size installation.
# For parameters that require different values in different size
# installations, three scenarios have been provided: SMALL, MEDIUM
# and LARGE.  Any parameter that needs to be tuned according to
# installation size will have three settings, each one commented
# according to installation size.
#
# Use the following table to approximate the SGA size needed for the
# three scenarious provided in this file:
#
#                      -------Installation/Database Size------
#                       SMALL           MEDIUM          LARGE
#  Block         2K     4500K            6800K          17000K
#  Size          4K     5500K            8800K          21000K
#
# To set up a database that multiple instances will be using, place
# all instance-specific parameters in one file, and then have all
# of these files point to a master file using the IFILE command.
# This way, when you change a public
# parameter, it will automatically change on all instances.  This is
# necessary, since all instances must run with the same value for many
# parameters. For example, if you choose to use private rollback segments,
# these must be specified in different files, but since all gc_*
# parameters must be the same on all instances, they should be in one file.
#
# INSTRUCTIONS: Edit this file and the other INIT files it calls for
# your site, either by using the values provided here or by providing
# your own.  Then place an IFILE= line into each instance-specific
# INIT file that points at this file.
###############################################################################

# replace "oracle" with your database name
#db_name=ORCL
db_name=IICa

db_files = 1024                                                    # no higher than MAX
DATAFILES in creation DB.
# db_files = 80                                                    # SMALL
# db_files = 400                                                   # MEDIUM
# db_files = 1000                                                  # LARGE

#control_files = C:¥orant¥DATABASE¥ctl1ORCL.ora
control_files = (F:¥db_IICa¥ctlIICa1.ora,F:¥db_IICa¥ctlIICa2.ora)          #at least two.

db_file_multiblock_read_count =  16 # INITIAL
# db_file_multiblock_read_count = 8                                # SMALL
# db_file_multiblock_read_count = 16                               # MEDIUM
# db_file_multiblock_read_count = 32                               # LARGE

  db_block_buffers =  550                          # INITIAL
# db_block_buffers = 100                                           # SMALL
# db_block_buffers = 550                                           # MEDIUM
# db_block_buffers = 3200                                          # LARGE

#shared_pool_size =  11534336                       # INITIAL
# shared_pool_size = 3500000                                       # SMALL
# shared_pool_size = 5000000                                       # MEDIUM
 shared_pool_size = 9000000                                       # LARGE

log_checkpoint_interval = 10000

processes =  100                                           # INITIAL
# processes = 50                                                   # SMALL
# processes = 100                                                  # MEDIUM
# processes = 200                                                  # LARGE
```

```
dml_locks = 200

parallel_max_servers = 5                                          # SMALL
# parallel_max_servers = 4 x (number of CPUs)                     # MEDIUM
# parallel_max_servers = 4 x (number of CPUs)                     # LARGE

#log_buffer =  8192                                  # INITIAL
# log_buffer = 8192                                               # SMALL
  log_buffer = 32768                                              # MEDIUM
# log_buffer = 163840                                             # LARGE

sequence_cache_entries =  30          # INITIAL
# sequence_cache_entries = 10                                     # SMALL
# sequence_cache_entries = 30                                     # MEDIUM
# sequence_cache_entries = 100                                    # LARGE

sequence_cache_hash_buckets =  23     # INITIAL
# sequence_cache_hash_buckets = 10                                # SMALL
# sequence_cache_hash_buckets = 23                                # MEDIUM
# sequence_cache_hash_buckets = 89                                # LARGE

# audit_trail = true            # if you want auditing
# timed_statistics = true       # if you want timed statistics
max_dump_file_size = 10240      # limit trace file size to 5 Meg each

# Uncommenting the line below will cause automatic archiving if archiving has
# been enabled using ALTER DATABASE ARCHIVELOG.
# log_archive_start = true
# log_archive_dest = %ORACLE_HOME%¥database¥archive
# log_archive_format = "%ORACLE_SID%%S.%T"

# If using private rollback segments, place lines of the following
# form in each of your instance-specific init.ora files:
# rollback_segments = (name1, name2)
  rollback_segments = (rbs01, rbs02, rbs03, rbs04, rbs05, rbs06, rbs07, rbs08)

# If using public rollback segments, define how many
# rollback segments each instance will pick up, using the formula
#   # of rollback segments = transactions / transactions_per_rollback_segment
# In this example each instance will grab 40/10 = 4:
# transactions = 40
# transactions_per_rollback_segment = 10

# Global Naming -- enforce that a dblink has same name as the db it connects to
global_names = TRUE

# Edit and uncomment the following line to provide the suffix that will be
# appended to the db_name parameter (separated with a dot) and stored as the
# global database name when a database is created.  If your site uses
# Internet Domain names for e-mail, then the part of your e-mail address after
# the '@' is a good candidate for this parameter value.

# db_domain = us.acme.com       # global database name is db_name.db_domain

# Uncomment the following line if you wish to enable the Oracle Trace product
# to trace server activity.  This enables scheduling of server collections
# from the Oracle Enterprise Manager Console.
# Also, if the oracle_trace_collection_name parameter is non-null,
# every session will write to the named collection, as well as enabling you
# to schedule future collections from the console.

# oracle_trace_enable = TRUE

# define directories to store trace and alert files
background_dump_dest=F:¥db_llCa¥trace
user_dump_dest=F:¥db_llCa¥trace

db_block_size = 2048

remote_login_passwordfile = shared

text_enable = TRUE

# The following parameters are needed for the Advanced Replication Option

job_queue_processes = 2
```

```
job_queue_interval = 10
job_queue_keep_connections = false

distributed_lock_timeout = 300
distributed_transactions = 5

open_links = 4
SORT_AREA_SIZE = 5242880  #5M
```

```
REM Sample script to create database - Page 33 - 36
REM * ************************************************************
REM * Script to create DB1 instance with db_block_size = 2048
REM *
REM *  Created:   Rattana J. 11 January 2000
REM *
REM *
REM * ************************************************************
spool F:¥db_llCa¥script¥log¥crdbllCa.log
set termout on
set echo on

REM * Start the instance (ORACLE_SID must be set to <llCa>).
REM *
connect internal/admin
REM startup nomount pfile=/disk00/oracle/software/7.3.4/dbs/initDB1.ora
startup nomount pfile=F:¥db_llCa¥initllCa.ora

REM * Create the <DB1> database.
REM *
create database "llCa"
    maxinstances 2
    maxlogfiles  32
    maxdatafiles 1024
    character set "TH8TISASCII"
datafile 'F:¥db_llCa¥system01.dbf' size 50M
logfile  'F:¥db_llCa¥redolog01.log' size 512K,
         'F:¥db_llCa¥redolog02.log' size 512K,
         'F:¥db_llCa¥redolog03.log' size 512K,
         'F:¥db_llCa¥redolog04.log' size 512K;

REM * Now perform all commands necessary to create
REM * the final database after the CREATE DATABASE command has
REM * succeeded.


REM * install data dictionary:
@E:¥ORANT¥RDBMS80¥admin¥catalog.sql

REM * install procedural components:
@E:¥ORANT¥RDBMS80¥admin¥catproc.sql

REM * Create additional rollback segment in SYSTEM since
REM * at least one non-system rollback segment is required
REM * before creating a tablespace.
REM *
create rollback segment SYSROLL tablespace system
storage (initial 25K next 25K minextents 2 maxextents 99);

REM * Put SYSROLL online without shutting
REM * down and restarting the database.
REM *
alter rollback segment SYSROLL online;

REM * Create a tablespace for rollback segments.
REM *
create tablespace ROLLBACK
 datafile 'F:¥db_llCa¥rbs01.dbf' size 25M
 default storage (
  initial      1M
  next         1M
  pctincrease  0
  minextents   2
  maxextents  UNLIMITED
);

REM * Create the "real" rollback segments.
REM *
create rollback segment RBS01 tablespace ROLLBACK
storage (initial 1M next 1M minextents 2 optimal 2M);
create rollback segment RBS02 tablespace ROLLBACK
storage (initial 1M next 1M minextents 2 optimal 2M);
create rollback segment RBS03 tablespace ROLLBACK
storage (initial 1M next 1M minextents 2 optimal 2M);
create rollback segment RBS04 tablespace ROLLBACK
storage (initial 1M next 1M minextents 2 optimal 2M);
create rollback segment RBS05 tablespace ROLLBACK
```

```
storage (initial 1M next 1M minextents 2 optimal 2M);
create rollback segment RBS06 tablespace ROLLBACK
storage (initial 1M next 1M minextents 2 optimal 2M);
create rollback segment RBS07 tablespace ROLLBACK
storage (initial 1M next 1M minextents 2 optimal 2M);
create rollback segment RBS08 tablespace ROLLBACK
storage (initial 1M next 1M minextents 2 optimal 2M);

REM * Use ALTER ROLLBACK SEGMENT ONLINE to put rollback segments online
REM * without shutting down and restarting the database.
REM *
alter rollback segment RBS01 online;
alter rollback segment RBS02 online;
alter rollback segment RBS03 online;
alter rollback segment RBS04 online;
alter rollback segment RBS05 online;
alter rollback segment RBS06 online;
alter rollback segment RBS07 online;
alter rollback segment RBS08 online;

REM * Since we've created and brought online 4 more rollback segments,
REM * we no longer need the rollback segment in the SYSTEM tablespace.
REM * We could delete it, but we will leave it here in case we need it
REM * in the future.
alter rollback segment SYSROLL offline;

REM * Create a tablespace for temporary segments.
create tablespace TEMP
 datafile 'F:¥db_llCa¥temp01.dbf' size 25M
 default storage (
 initial     100K
 next        100K
 maxextents  UNLIMITED
 pctincrease 0
);

REM * Create a tablespace for database tools.
REM *
create tablespace TOOLS
 datafile 'F:¥db_llCa¥tools01.dbf' size 25M
 default storage (
 initial     50K
 next        50K
 maxextents  UNLIMITED
 pctincrease 0
);

REM * Create tablespaces for user activity.
REM *
create tablespace DATA
 datafile 'F:¥db_llCa¥data01.dbf' size 100M
 default storage (
   initial     250K
   next        250K
   maxextents  UNLIMITED
   pctincrease 0
);

REM * Create tablespaces for indexes.
REM *
create tablespace INDEX
 datafile 'F:¥db_llCa¥index01.dbf' size 100M
 default storage (
   initial     250K
   next        250K
   maxextents  UNLIMITED
   pctincrease 0
);

REM * Alter SYS and SYSTEM users, because Oracle will make SYSTEM
REM * the default and temporary tablespace by default, and we don't
REM * want that.
REM *
alter user sys temporary tablespace TEMP;
alter user system default tablespace TOOLS temporary tablespace TEMP;

REM * Now run the Oracle-supplied scripts we need for this DB
```

```
REM *
@E:¥orant¥RDBMS80¥ADMIN¥catexp.sql
@E:¥orant¥RDBMS80¥ADMIN¥dbmspool.sql
@E:¥orant¥RDBMS80¥ADMIN¥prvtpool.plb

REM * Now run the Oracle-supplied script to create the DBA views
REM * for the SYSTEM account.  Change to SYSTEM first.
REM *
connect system/manager
@E:¥orant¥RDBMS80¥ADMIN¥catdbsyn.sql

REM * Create Product and User Profile Table.
REM *
@E:¥orant¥DBS¥pupbld.sql

REM * All done, so close the log file and exit.
REM *
spool off
exit
```

```
#
# $Header: init.ora 05-jun-97.14:56:46 hpiao Exp
#
# Copyright (c) 1991, 1997 by Oracle Corporation
#
###############################################################################
# Example INIT.ORA file
#
# This file is provided by Oracle Corporation to help you customize
# your RDBMS installation for your site.  Important system parameters
# are discussed, and example settings given.
#
# Some parameter settings are generic to any size installation.
# For parameters that require different values in different size
# installations, three scenarios have been provided: SMALL, MEDIUM
# and LARGE.  Any parameter that needs to be tuned according to
# installation size will have three settings, each one commented
# according to installation size.
#
# Use the following table to approximate the SGA size needed for the
# three scenarious provided in this file:
#
#                    -------Installation/Database Size------
#                     SMALL           MEDIUM          LARGE
#  Block        2K    4500K            6800K          17000K
#  Size         4K    5500K            8800K          21000K
#
# To set up a database that multiple instances will be using, place
# all instance-specific parameters in one file, and then have all
# of these files point to a master file using the IFILE command.
# This way, when you change a public
# parameter, it will automatically change on all instances.  This is
# necessary, since all instances must run with the same value for many
# parameters. For example, if you choose to use private rollback segments,
# these must be specified in different files, but since all gc_*
# parameters must be the same on all instances, they should be in one file.
#
# INSTRUCTIONS: Edit this file and the other INIT files it calls for
# your site, either by using the values provided here or by providing
# your own.  Then place an IFILE= line into each instance-specific
# INIT file that points at this file.
###############################################################################

# replace "oracle" with your database name
#db_name=ORCL
db_name=IICa

db_files = 1024                                                    # no higher than MAX
DATAFILES in creation DB.
# db_files = 80                                                    # SMALL
# db_files = 400                                                   # MEDIUM
# db_files = 1000                                                  # LARGE

#control_files = C:¥orant¥DATABASE¥ctl1ORCL.ora
control_files = (F:¥db_IICa¥ctlIICa1.ora,F:¥db_IICa¥ctlIICa2.ora)          #at least two.

db_file_multiblock_read_count =  16 # INITIAL
# db_file_multiblock_read_count = 8                                # SMALL
# db_file_multiblock_read_count = 16                               # MEDIUM
# db_file_multiblock_read_count = 32                               # LARGE

  db_block_buffers =  1100                          # INITIAL
# db_block_buffers = 100                                           # SMALL
# db_block_buffers = 550                                           # MEDIUM
# db_block_buffers = 3200                                          # LARGE

#shared_pool_size =  11534336                       # INITIAL
# shared_pool_size = 3500000                                       # SMALL
# shared_pool_size = 5000000                                       # MEDIUM
 shared_pool_size = 9000000                                       # LARGE

log_checkpoint_interval = 10000

processes =  100                                           # INITIAL
# processes = 50                                                   # SMALL
# processes = 100                                                  # MEDIUM
# processes = 200                                                  # LARGE
```

```
dml_locks = 200

parallel_max_servers = 4                                          # SMALL
# parallel_max_servers = 4 x (number of CPUs)                     # MEDIUM
# parallel_max_servers = 4 x (number of CPUs)                     # LARGE

#log_buffer =  8192                                  # INITIAL
# log_buffer = 8192                                               # SMALL
  log_buffer = 32768                                              # MEDIUM
# log_buffer = 163840                                             # LARGE

sequence_cache_entries =  30          # INITIAL
# sequence_cache_entries = 10                                     # SMALL
# sequence_cache_entries = 30                                     # MEDIUM
# sequence_cache_entries = 100                                    # LARGE

sequence_cache_hash_buckets =  23     # INITIAL
# sequence_cache_hash_buckets = 10                                # SMALL
# sequence_cache_hash_buckets = 23                                # MEDIUM
# sequence_cache_hash_buckets = 89                                # LARGE

# audit_trail = true            # if you want auditing
# timed_statistics = true       # if you want timed statistics
max_dump_file_size = 10240      # limit trace file size to 5 Meg each

# Uncommenting the line below will cause automatic archiving if archiving has
# been enabled using ALTER DATABASE ARCHIVELOG.
# log_archive_start = true
# log_archive_dest = %ORACLE_HOME%¥database¥archive
# log_archive_format = "%ORACLE_SID%%S.%T"

# If using private rollback segments, place lines of the following
# form in each of your instance-specific init.ora files:
# rollback_segments = (name1, name2)
  rollback_segments = (rbs01, rbs02, rbs03, rbs04, rbs05, rbs06, rbs07, rbs08)

# If using public rollback segments, define how many
# rollback segments each instance will pick up, using the formula
#   # of rollback segments = transactions / transactions_per_rollback_segment
# In this example each instance will grab 40/10 = 4:
# transactions = 40
# transactions_per_rollback_segment = 10

# Global Naming -- enforce that a dblink has same name as the db it connects to
global_names = TRUE

# Edit and uncomment the following line to provide the suffix that will be
# appended to the db_name parameter (separated with a dot) and stored as the
# global database name when a database is created.  If your site uses
# Internet Domain names for e-mail, then the part of your e-mail address after
# the '@' is a good candidate for this parameter value.

# db_domain = us.acme.com       # global database name is db_name.db_domain

# Uncomment the following line if you wish to enable the Oracle Trace product
# to trace server activity.  This enables scheduling of server collections
# from the Oracle Enterprise Manager Console.
# Also, if the oracle_trace_collection_name parameter is non-null,
# every session will write to the named collection, as well as enabling you
# to schedule future collections from the console.

# oracle_trace_enable = TRUE

# define directories to store trace and alert files
background_dump_dest=F:¥db_llCa¥trace
user_dump_dest=F:¥db_llCa¥trace

db_block_size = 2048

remote_login_passwordfile = shared

text_enable = TRUE

# The following parameters are needed for the Advanced Replication Option

job_queue_processes = 2
```

```
job_queue_interval = 10
job_queue_keep_connections = false

distributed_lock_timeout = 300
distributed_transactions = 5

open_links = 4
SORT_AREA_SIZE = 5242880  #5M
```

```
spool F:¥db_iica¥script¥log¥shutdown.log
SET TERMOUT OFF
SET ECHO OFF

shutdown normal;

spool off
```

```
spool F:¥db_IICa¥script¥log¥c_vw_access.log
set termout on
set echo on

drop view VW_PastRecordFG;

create view VW_PastRecordFG
as
select  a.ISIC,
  a.Year,
  a.Month,
  a.RegistrationNo,
  a.CommodityCode,
  a.Pre_Rev_Mark,
  a.BM_Inventory,
  a.Atrbt_BM_Inventory,
  a.ProductionQTY,
  a.Atrbt_ProductionQTY,
  a.Receipts,
  a.Atrbt_Receipts,
  a.DomesticSales,
  a.Atrbt_DomesticSales,
  a.Export,
  a.Atrbt_Export,
  a.OtherSales,
  a.Atrbt_OtherSales,
  a.ME_Inventory,
  a.Atrbt_ME_Inventory,
  a.UnitPrice,
  b.ShipmentValue,
  b.Atrbt_ShipmentValue,
  b.SalesPlan,
  b.Atrbt_SalesPlan,
  ClassMaster.IndustryTypeShortName,
  CommodityMaster.CommodityShortName,
  UnitMaster.UnitName,
  EstablishmentMaster.EstablishmentName,
  EstablishmentMaster.SurveyScope,
  EstablishmentMaster.ContinuousRespondent
 from PastRecord a,PastRecord b,ClassMaster,
  CommodityMaster,UnitMaster,EstablishmentMaster
 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.Pre_Rev_Mark = b.Pre_Rev_Mark
  and a.ItemType = '1'
  and b.ItemType = '2'
  and a.ISIC = ClassMaster.ISIC
  and a.ISIC = CommodityMaster.ISIC
  and a.ItemType = CommodityMaster.ItemType
  and a.CommodityCode = CommodityMaster.CommodityCode
  and CommodityMaster.UnitCode = UnitMaster.UnitCode
  and a.ISIC = EstablishmentMaster.ISIC
  and a.RegistrationNo = EstablishmentMaster.RegistrationNo;


drop view VW_PastRecordFG2;

create view VW_PastRecordFG2
as
select  a.ISIC,
        a.Year,
        a.Month,
        a.RegistrationNo,
        a.CommodityCode,
        a.Pre_Rev_Mark,
        a.Capacity,
        a.Atrbt_Capacity,
        ClassMaster.IndustryTypeShortName,
        CommodityMaster.CommodityShortName,
        UnitMaster.UnitName,
        EstablishmentMaster.EstablishmentName,
        EstablishmentMaster.SurveyScope,
        EstablishmentMaster.ContinuousRespondent
    from PastRecord a,ClassMaster,
```

```
        CommodityMaster, UnitMaster, EstablishmentMaster
    where
            a. ItemType = '6'
     and    a. ISIC = ClassMaster. ISIC
     and    a. ISIC = CommodityMaster. ISIC
     and    a. ItemType = CommodityMaster. ItemType
     and    a. CommodityCode = CommodityMaster. CommodityCode
     and    CommodityMaster. UnitCode = UnitMaster. UnitCode
     and    a. ISIC = EstablishmentMaster. ISIC
     and    a. RegistrationNo = EstablishmentMaster. RegistrationNo;


drop view VW_PastRecordFG4;

create view VW_PastRecordFG4
as
select  a. ISIC,
        a. Year,
        a. Month,
        a. RegistrationNo,
        a. CommodityCode,
        a. Pre_Rev_Mark,
        a. RwMt_MEInventory,
        a. Atrbt_RwMt_MEInventory,
        ClassMaster. IndustryTypeShortName,
        CommodityMaster. CommodityShortName,
        UnitMaster. UnitName,
        EstablishmentMaster. EstablishmentName,
        EstablishmentMaster. SurveyScope,
        EstablishmentMaster. ContinuousRespondent
    from PastRecord a, ClassMaster,
        CommodityMaster, UnitMaster, EstablishmentMaster
    where
            a. ItemType = '4'
     and    a. ISIC = ClassMaster. ISIC
     and    a. ISIC = CommodityMaster. ISIC
     and    a. ItemType = CommodityMaster. ItemType
     and    a. CommodityCode = CommodityMaster. CommodityCode
     and    CommodityMaster. UnitCode = UnitMaster. UnitCode
     and    a. ISIC = EstablishmentMaster. ISIC
     and    a. RegistrationNo = EstablishmentMaster. RegistrationNo;


drop view VW_Labor;

create view VW_Labor
            ISIC,
            Year,
            Month,
            RegistrationNo,
            Pre_Rev_Mark,
            CommodityCode,
            WorkersLaborTotal,
            Atrbt_WorkersLaborTotal,
            WorkersLabor_SC,
            Atrbt_WorkersLabor_SC,
            HoursLaborTotal,
            Atrbt_HoursLaborTotal,
            HoursLabor_SC,
            Atrbt_HoursLabor_SC,
            DaysLaborTotal,
            Atrbt_DaysLaborTotal,
            DaysLabor_SC,
            Atrbt_DaysLabor_SC,
            IndustryTypeShortName,
            EstablishmentName,
            SurveyScope,
            ContinuousRespondent) as
    select  a. ISIC,
            a. Year,
            a. Month,
            a. RegistrationNo,
            a. Pre_Rev_Mark,
            a. CommodityCode,
            a. LaborTotal,
            a. Atrbt_LaborTotal,
            a. Labor_SC,
```

```
            a.Atrbt_Labor_SC,
            b.LaborTotal,
            b.Atrbt_LaborTotal,
            b.Labor_SC,
            b.Atrbt_Labor_SC,
            c.LaborTotal,
            c.Atrbt_LaborTotal,
            c.Labor_SC,
            c.Labor_SC,
            ClassMaster.IndustryTypeShortName,
            EstablishmentMaster.EstablishmentName,
            EstablishmentMaster.SurveyScope,
            EstablishmentMaster.ContinuousRespondent
    from    PastRecord a, PastRecord b, PastRecord c,
            ClassMaster, EstablishmentMaster
    where   a.ISIC = b.ISIC
        and a.Year = b.Year
        and a.Month = b.Month
        and a.RegistrationNo = b.RegistrationNo
        and a.Pre_Rev_Mark = b.Pre_Rev_Mark
        and a.ISIC = c.ISIC
        and a.Year = c.Year
        and a.Month = c.Month
        and a.RegistrationNo = c.RegistrationNo
        and a.Pre_Rev_Mark = c.Pre_Rev_Mark
        and a.ItemType = '3'
        and b.ItemType = '3'
        and c.ItemType = '3'
        and a.CommodityCode = '010'
        and b.CommodityCode = '020'
        and c.CommodityCode = '030'
        and a.ISIC = ClassMaster.ISIC
        and a.ISIC = EstablishmentMaster.ISIC
        and a.RegistrationNo = EstablishmentMaster.RegistrationNo;


drop view vw_IndexListCommodity;

create  view vw_IndexListCommodity (
        AggregationRange,
        ISIC,
        ItemType,
        IndexCommodityCode,
        Year,
        Month,
        SurveyScope,
        Pre_Rev_Mark,
        IndexPR1,
        IndexSP2,
        IndexIV3,
        IndexIR4,
        IndexCU5,
        IndexLP6,
        IndexLI7,
        IndexRI8,
  GR_CPM_PR1,
  GR_CPY_PR1,
  GR_CPM_SP2,
  GR_CPY_SP2,
  GR_CPM_IV3,
  GR_CPY_IV3,
  GR_CPM_IR4,
  GR_CPY_IR4,
  GR_CPM_CU5,
  GR_CPY_CU5,
  GR_CPM_LP6,
  GR_CPY_LP6,
  GR_CPM_LI7,
  GR_CPY_LI7,
  GR_CPM_RI8,
  GR_CPY_RI8,
        CommodityShortName,
  CMDate,
  PMDate,
  PYDate) as
select  Indices.AggregationRange,
```

```
        Indices. ISIC,
        Indices. ItemType,
        Indices. IndexCommodityCode,
        Indices. Year,
        Indices. Month,
        Indices. SurveyScope,
        Indices. Pre_Rev_Mark,
        Indices. indexPR1,
        Indices. IndexSP2,
        Indices. IndexIV3,
        Indices. IndexIR4,
        Indices. IndexCU5,
        Indices. IndexLP6,
        Indices. IndexLI7,
        Indices. IndexRI8,
  a. GR_PR1,
  b. GR_PR1,
  a. GR_SP2,
  b. GR_SP2,
  a. GR_IV3,
  b. GR_IV3,
  a. GR_IR4,
  b. GR_IR4,
  a. GR_CU5,
  b. GR_CU5,
  a. GR_LP6,
  b. GR_LP6,
  a. GR_LI7,
  b. GR_LI7,
  a. GR_RI8,
  b. GR_RI8,
        CommodityMaster. CommodityShortName,
  to_date(to_char(Indices. Year, '9999') || to_char(Indices. Month, '09') || '01', 'yyyymmdd'),
  add_months(to_date(to_char(Indices. Year, '9999') || to_char(Indices. Month, '09') || '01', '
yyyymmdd'), -1),
  add_months(to_date(to_char(Indices. Year, '9999') || to_char(Indices. Month, '09') || '01', '
yyyymmdd'), -12)
  from Indices, GrowthRate a, GrowthRate b, CommodityMaster
 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 = CommodityMaster. ISIC
   and  Indices. ItemType = CommodityMaster. ItemType
   and  Indices. IndexCommodityCode = CommodityMaster. CommodityCode;


drop view vw_EstablishContributionRatio;

create  view    vw_EstablishContributionRatio
       (
        ISIC,
        ItemType,
        CommodityCode,
        Year,
        Month,
        RegistrationNo,
        Pre_Rev_Mark,
        ComparisonTarget,
        Seq,
        CR_PR_CN,
        CR_SQ_CN,
        CR_IV_CN,
```

```
        CR_SV_CN,
        CR_PR_GR,
        CR_SQ_GR,
        CR_IV_GR,
        CR_SV_GR,
        ISICShortName,
        CommodityShortName,
        UnitName,
        EstablishmentName,
        SurveyScope) as
select  /*+ all_rows*/
        a.ISIC,
        a.ItemType,
        a.CommodityCode,
        a.Year,
        a.Month,
        a.RegistrationNo,
        a.Pre_Rev_Mark,
        a.ComparisonTarget,
        a.Seq,
        a.CR_Production,
        a.CR_ShipmentQty,
        a.CR_MEInventory,
        a.CR_ShipmentVal,
        c.GR_Production,
        c.GR_ShipmentQty,
        c.GR_MEInventory,
        c.GR_ShipmentVal,
        ClassMaster.IndustryTypeShortName,
        CommodityMaster.CommodityShortName,
        UnitMaster.UnitName,
        EstablishmentMaster.EstablishmentName,
        EstablishmentMaster.SurveyScope
  from  ContributionForCommodity a,GrowthRateQTY c,
        CommodityMaster,ClassMaster, UnitMaster,EstablishmentMaster
 where  a.ItemType = '1'
   and  a.ISIC = c.ISIC
   and  a.Year = c.Year
   and  a.Month = c.Month
   and  a.ItemType = c.ItemType
   and  a.CommodityCode = c.CommodityCode
   and  a.SurveyScope = c.SurveyScope
   and  a.Pre_Rev_Mark = c.Pre_Rev_Mark
   and  a.ComparisonTarget = c.ComparisonTarget
   and  a.Seq = c.Seq
   and  a.ISIC = ClassMaster.ISIC
   and  a.ISIC = CommodityMaster.ISIC
   and  a.ItemType = CommodityMaster.ItemType
   and  a.CommodityCode = CommodityMaster.CommodityCode
   and  CommodityMaster.UnitCode = UnitMaster.UnitCode
   and  a.ISIC = EstablishmentMaster.ISIC
   and  a.RegistrationNo = EstablishmentMaster.RegistrationNo;


drop view vw_EstablishContributionRatio2;

create  view    vw_EstablishContributionRatio2
   (ISIC,
    ItemType,
    CommodityCode,
    Year,
    Month,
    RegistrationNo,
    Pre_Rev_Mark,
    ComparisonTarget,
    Seq,
    CR_RM_CN,
    CR_RM_GR,
    ISICShortName,
    CommodityShortName,
    UnitName,
    EstablishmentName,
    SurveyScope) as
select /*+ all_rows*/
        a.ISIC,
        a.ItemType,
```

```
        a.CommodityCode,
        a.Year,
        a.Month,
        a.RegistrationNo,
        a.Pre_Rev_Mark,
        a.ComparisonTarget,
        a.Seq,
        a.CR_RawMaterial,
        c.GR_RawMaterial,
        ClassMaster.IndustryTypeShortName,
        CommodityMaster.CommodityShortName,
        UnitMaster.UnitName,
        EstablishmentMaster.EstablishmentName,
        EstablishmentMaster.SurveyScope
  from  ContributionForCommodity a,GrowthRateQTY c,
        CommodityMaster,ClassMaster, UnitMaster,EstablishmentMaster
 where  a.ISIC = c.ISIC
   and  a.Year = c.Year
   and  a.Month = c.Month
   and  a.ItemType = '4'
   and  a.ItemType = c.ItemType
   and  a.CommodityCode = c.CommodityCode
   and  a.SurveyScope = c.surveyScope
   and  a.Pre_Rev_Mark = c.Pre_Rev_Mark
   and  a.ComparisonTarget = c.ComparisonTarget
   and  a.Seq = c.Seq
   and  a.ISIC = ClassMaster.ISIC
   and  a.ISIC = CommodityMaster.ISIC
   and  a.ItemType = CommodityMaster.ItemType
   and  a.CommodityCode = CommodityMaster.CommodityCode
   and CommodityMaster.UnitCode = UnitMaster.UnitCode
   and a.ISIC = EstablishmentMaster.ISIC
   and a.RegistrationNo = EstablishmentMaster.RegistrationNo;


drop view VW_ErrorLog;

create view VW_ErrorLog
as
select  a.ISIC,
        a.Year,
        a.Month,
        a.RegistrationNo,
        a.Itemtype,
        a.CommodityCode,
        a.MessageCode,
        MessageMaster.Message,
        CommodityMaster.CommodityshortName,
        EstablishmentMaster.EstablishmentName,
        EstablishmentMaster.EstablishmentTel,
        EstablishmentMaster.NameofRespondent
    from ErrorLog  a, CommodityMaster, MessageMaster,  EstablishmentMaster
    where
         a.Messagecode = MessageMaster.MessageCode
     and    a.ISIC   =   EstablishmentMaster.ISIC
     and    a.REGISTRATIONNO            =   EstablishmentMaster.REGISTRATIONNO
     and    a.ISIC   =   CommodityMaster.ISIC
     and    a.Itemtype   =   CommodityMaster.Itemtype
     and    a.CommodityCode = CommodityMaster.CommodityCode;


commit work;

spool off;

exit
```

```
spool F:¥db_IICa¥script¥log¥c_vw_excel.log
set termout on
set echo on

-- Indices by ISIC
drop    view    vw_IndicesISIC;

create  view    vw_IndicesISIC   (
        AggregationRange,
        ISIC,
        Year,
        Month,
        SurveyScope,
        Pre_Rev_Mark,
        INDEXPR1,
        INDEXSP2,
        INDEXIV3,
        INDEXIR4,
        INDEXCU5,
        INDEXLP6,
        INDEXLI7,
        INDEXRI8,
        IndustryTypeShortName,
        ISIC1,
        ISIC2,
        ISIC3,
        YearMonth)  as
select  Indices.AggregationRange,
        Indices.ISIC,
        Indices.Year,
        Indices.Month,
        Indices.SurveyScope,
        Indices.Pre_Rev_Mark,
        Indices.INDEXPR1,
        Indices.INDEXSP2,
        Indices.INDEXIV3,
        Indices.INDEXIR4,
        Indices.INDEXCU5,
        Indices.INDEXLP6,
        Indices.INDEXLI7,
        Indices.INDEXRI8,
        AggregationMaster.IndustryTypeShortName,
        substr(Indices.ISIC,1,2),
        substr(Indices.ISIC,3,2),
        substr(Indices.ISIC,5,2),
        Indices.Year * 100 + Indices.Month
 from   Indices,AggregationMaster
 where  Indices.AggregationRange = AggregationMaster.AggregationRange
   and  Indices.ISIC = AggregationMaster.ISIC;

-- Indices by Commodity
drop    view    vw_IndicesCommodity;

create  view    vw_IndicesCommodity   (
        AggregationRange,
        ISIC,
                ItemType,
        IndexCommodityCode,
        Year,
        Month,
        SurveyScope,
        Pre_Rev_Mark,
        INDEXPR1,
        INDEXSP2,
        INDEXIV3,
        INDEXIR4,
        INDEXCU5,
        INDEXLP6,
        INDEXLI7,
        INDEXRI8,
        CommodityShortName,
        YearMonth)  as
select  Indices.AggregationRange,
        Indices.ISIC,
                Indices.ItemType,
        Indices.IndexCommodityCode,
        Indices.Year,
```

```
        Indices. Month,
        Indices. SurveyScope,
        Indices. Pre_Rev_Mark,
        Indices. INDEXPR1,
        Indices. INDEXSP2,
        Indices. INDEXIV3,
        Indices. INDEXIR4,
        Indices. INDEXCU5,
        Indices. INDEXLP6,
        Indices. INDEXLI7,
        Indices. INDEXRI8,
        CommodityMaster. CommodityShortName,
        Indices. Year * 100 + Indices. Month
 from   Indices, CommodityMaster
 where  Indices. ISIC = CommodityMaster. ISIC
   and  Indices. ItemType = CommodityMaster. ItemType
   and  Indices. IndexCommodityCode = CommodityMaster. CommodityCode;

-- Indices and Growth Range By ISIC
drop    view    vw_IndicesGrowthISIC;

create  view    vw_IndicesGrowthISIC   (
        AggregationRange,
        ISIC,
        Year,
        Month,
        SurveyScope,
        Pre_Rev_Mark,
        INDEXPR1,
                GR_CPM_PR1,
                GR_CPY_PR1,
        INDEXSP2,
                GR_CPM_SP2,
                GR_CPY_SP2,
        INDEXIV3,
                GR_CPM_IV3,
                GR_CPY_IV3,
        INDEXIR4,
                GR_CPM_IR4,
                GR_CPY_IR4,
        INDEXCU5,
                GR_CPM_CU5,
                GR_CPY_CU5,
        INDEXLP6,
                GR_CPM_LP6,
                GR_CPY_LP6,
        INDEXLI7,
                GR_CPM_LI7,
                GR_CPY_LI7,
        INDEXRI8,
                GR_CPM_RI8,
                GR_CPY_RI8,
        GR_InventoryQTY_CPM_IR,
        GR_InventoryQTY_CPY_IR,
        GR_ShipmentQTY_CPM_IR,
        GR_ShipmentQTY_CPY_IR,
        GR_ProductionVal_CPM_LP,
        GR_ProductionVal_CPY_LP,
        GR_ManHour_CPM_LP,
        GR_ManHour_CPY_LP,
        GR_ProductionQTY_CPM_CU,
        GR_ProductionQTY_CPY_CU,
        GR_Capacity_CPM_CU,
        GR_Capacity_CPY_CU,
        IndustryTypeShortName,
        ISIC1,
        ISIC2,
        ISIC3,
        YearMonth)  as
select  Indices. AggregationRange,
        Indices. ISIC,
        Indices. Year,
        Indices. Month,
        Indices. SurveyScope,
        Indices. Pre_Rev_Mark,
        Indices. INDEXPR1,
                a. GR_PR1,
```

```
                b.GR_PR1,
        Indices.INDEXSP2,
                a.GR_SP2,
                b.GR_SP2,
        Indices.INDEXIV3,
                a.GR_IV3,
                b.GR_IV3,
        Indices.INDEXIR4,
                a.GR_IR4,
                b.GR_IR4,
        Indices.INDEXCU5,
                a.GR_CU5,
                b.GR_CU5,
        Indices.INDEXLP6,
                a.GR_LP6,
                b.GR_LP6,
        Indices.INDEXLI7,
                a.GR_LI7,
                b.GR_LI7,
        Indices.INDEXRI8,
                a.GR_RI8,
                b.GR_RI8,
        a.GR_InventoryQTY_IR,
        b.GR_InventoryQTY_IR,
        a.GR_ShipmentQTY_IR,
        b.GR_ShipmentQTY_IR,
        a.GR_ProductionVal_LP,
        b.GR_ProductionVal_LP,
        a.GR_ManHour_LP,
        b.GR_ManHour_LP,
        a.GR_ProductionQTY_CU,
        b.GR_ProductionQTY_CU,
        a.GR_Capacity_CU,
        b.GR_Capacity_CU,
        AggregationMaster.IndustryTypeShortName,
        substr(Indices.ISIC,1,2),
        substr(Indices.ISIC,3,2),
        substr(Indices.ISIC,5,2),
        Indices.Year * 100 + Indices.Month
 from   Indices,GrowthRate a,GrowthRate b,AggregationMaster
 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.AggregationRange = AggregationMaster.AggregationRange
   and  Indices.ISIC = AggregationMaster.ISIC;

-- Indices and Growth Range By Commodity.
drop    view    vw_IndicesGrowthCommodity;

create  view    vw_IndicesGrowthCommodity   (
        AggregationRange,
        ISIC,
                ItemType,
        IndexCommodityCode,
        Year,
        Month,
        SurveyScope,
        Pre_Rev_Mark,
        INDEXPR1,
                GR_CPM_PR1,
                GR_CPY_PR1,
        INDEXSP2,
```

```
                GR_CPM_SP2,
                GR_CPY_SP2,
        INDEXIV3,
                GR_CPM_IV3,
                GR_CPY_IV3,
        INDEXIR4,
                GR_CPM_IR4,
                GR_CPY_IR4,
        INDEXCU5,
                GR_CPM_CU5,
                GR_CPY_CU5,
        INDEXLP6,
                GR_CPM_LP6,
                GR_CPY_LP6,
        INDEXLI7,
                GR_CPM_LI7,
                GR_CPY_LI7,
        INDEXRI8,
                GR_CPM_RI8,
                GR_CPY_RI8,
        GR_InventoryQTY_CPM_IR,
        GR_InventoryQTY_CPY_IR,
        GR_ShipmentQTY_CPM_IR,
        GR_ShipmentQTY_CPY_IR,
        GR_ProductionVal_CPM_LP,
        GR_ProductionVal_CPY_LP,
        GR_ManHour_CPM_LP,
        GR_ManHour_CPY_LP,
        GR_ProductionQTY_CPM_CU,
        GR_ProductionQTY_CPY_CU,
        GR_Capacity_CPM_CU,
        GR_Capacity_CPY_CU,
        CommodityShortName,
        ISIC1,
        ISIC2,
        ISIC3,
        YearMonth)  as
select  Indices.AggregationRange,
        Indices.ISIC,
                Indices.ItemType,
        Indices.IndexCommodityCode,
        Indices.Year,
        Indices.Month,
        Indices.SurveyScope,
        Indices.Pre_Rev_Mark,
        Indices.INDEXPR1,
                a.GR_PR1,
                b.GR_PR1,
        Indices.INDEXSP2,
                a.GR_SP2,
                b.GR_SP2,
        Indices.INDEXIV3,
                a.GR_IV3,
                b.GR_IV3,
        Indices.INDEXIR4,
                a.GR_IR4,
                b.GR_IR4,
        Indices.INDEXCU5,
                a.GR_CU5,
                b.GR_CU5,
        Indices.INDEXLP6,
                a.GR_LP6,
                b.GR_LP6,
        Indices.INDEXLI7,
                a.GR_LI7,
                b.GR_LI7,
        Indices.INDEXRI8,
                a.GR_RI8,
                b.GR_RI8,
        a.GR_InventoryQTY_IR,
        b.GR_InventoryQTY_IR,
        a.GR_ShipmentQTY_IR,
        b.GR_ShipmentQTY_IR,
        a.GR_ProductionVal_LP,
        b.GR_ProductionVal_LP,
        a.GR_ManHour_LP,
        b.GR_ManHour_LP,
```

```
        a. GR_ProductionQTY_CU,
        b. GR_ProductionQTY_CU,
        a. GR_Capacity_CU,
        b. GR_Capacity_CU,
        CommodityMaster. CommodityShortName,
        substr(Indices. ISIC, 1, 2),
        substr(Indices. ISIC, 3, 2),
        substr(Indices. ISIC, 5, 2),
        Indices. Year * 100 + Indices. Month
 from   Indices, GrowthRate a, GrowthRate b, CommodityMaster
 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 = CommodityMaster. ISIC
   and  Indices. ItemType = CommodityMaster. ItemType
   and  Indices. IndexCommodityCode = CommodityMaster. CommodityCode;

-- Begin AnnualIndices ----------------------------------------

-- annualIndices by ISIC
drop    view    vw_annualIndicesISIC;

create  view    vw_annualIndicesISIC   (
        AggregationRange,
        ISIC,
        Year,
        SurveyScope,
        INDEXPR1,
        INDEXSP2,
        INDEXIV3,
        INDEXIR4,
        INDEXCU5,
        INDEXLP6,
        INDEXLI7,
        INDEXRI8,
        IndustryTypeShortName,
        ISIC1,
        ISIC2,
        ISIC3)  as
select  annualIndices. AggregationRange,
        annualIndices. ISIC,
        annualIndices. Year,
        annualIndices. SurveyScope,
        annualIndices. INDEXPR1,
        annualIndices. INDEXSP2,
        annualIndices. INDEXIV3,
        annualIndices. INDEXIR4,
        annualIndices. INDEXCU5,
        annualIndices. INDEXLP6,
        annualIndices. INDEXLI7,
        annualIndices. INDEXRI8,
        AggregationMaster. IndustryTypeShortName,
        substr(annualIndices. ISIC, 1, 2),
        substr(annualIndices. ISIC, 3, 2),
        substr(annualIndices. ISIC, 5, 2)
 from   annualIndices, AggregationMaster
 where  annualIndices. AggregationRange = AggregationMaster. AggregationRange
   and  annualIndices. ISIC = AggregationMaster. ISIC;

-- annualIndices by Commodity
drop    view    vw_annualIndicesCommodity;
```

```
create  view    vw_annualIndicesCommodity   (
        AggregationRange,
        ISIC,
                ItemType,
        IndexCommodityCode,
        Year,
        SurveyScope,
        INDEXPR1,
        INDEXSP2,
        INDEXIV3,
        INDEXIR4,
        INDEXCU5,
        INDEXLP6,
        INDEXLI7,
        INDEXRI8,
        CommodityShortName)  as
select  annualIndices.AggregationRange,
        annualIndices.ISIC,
                annualIndices.ItemType,
        annualIndices.IndexCommodityCode,
        annualIndices.Year,
        annualIndices.SurveyScope,
        annualIndices.INDEXPR1,
        annualIndices.INDEXSP2,
        annualIndices.INDEXIV3,
        annualIndices.INDEXIR4,
        annualIndices.INDEXCU5,
        annualIndices.INDEXLP6,
        annualIndices.INDEXLI7,
        annualIndices.INDEXRI8,
        CommodityMaster.CommodityShortName
 from   annualIndices, CommodityMaster
 where  annualIndices.ISIC = CommodityMaster.ISIC
   and  annualIndices.ItemType = CommodityMaster.ItemType
   and  annualIndices.IndexCommodityCode = CommodityMaster.CommodityCode;


-- End annualIndices ------------------------------------------

-- General Explanation View
drop            view    vw_GenExp;

create  view    vw_GenExp   (
                                Year,
        Month,
        SurveyScope,
        Pre_Rev_Mark,
        INDEXPR1,
        INDEXSP2,
        INDEXIV3,
        INDEXIR4,
        INDEXCU5,
        INDEXLP6,
        INDEXLI7,
        INDEXRI8,
                                GR_CPM_PR1,
                                GR_CPM_SP2,
                                GR_CPM_IV3,
                                GR_CPM_IR4,
                                GR_CPM_CU5,
                                GR_CPM_LP6,
                                GR_CPM_LI7,
                                GR_CPM_RI8,
                                GR_CPY_PR1,
                                GR_CPY_SP2,
                                GR_CPY_IV3,
                                GR_CPY_IR4,
                                GR_CPY_CU5,
                                GR_CPY_LP6,
                                GR_CPY_LI7,
                                GR_CPY_RI8)  as
select  Indices.Year,
        Indices.Month,
        Indices.SurveyScope,
        Indices.Pre_Rev_Mark,
        Indices.INDEXPR1,
        Indices.INDEXSP2,
```

```
        Indices. INDEXIV3,
        Indices. INDEXIR4,
        Indices. INDEXCU5,
        Indices. INDEXLP6,
        Indices. INDEXLI7,
        Indices. INDEXRI8,
                                a. GR_PR1,
                                a. GR_SP2,
                                a. GR_IV3,
                                a. GR_IR4,
                                a. GR_CU5,
                                a. GR_LP6,
                                a. GR_LI7,
                                a. GR_RI8,
                                b. GR_PR1,
                                b. GR_SP2,
                                b. GR_IV3,
                                b. GR_IR4,
                                b. GR_CU5,
                                b. GR_LP6,
                                b. GR_LI7,
                                b. GR_RI8
from    Indices, GrowthRate a, GrowthRate b
where   Indices. AggregationRange = '1'
         and     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';
```

```
spool F:¥db_IICa¥script¥log¥c_vw_proc.log
set termout on
set echo on

-- Finish Goods of Survey Data
drop view VW_SurveyDataFG;
create view VW_SurveyDataFG
as
select  a.ISIC,
                a.Year,
                a.Month,
                a.RegistrationNo,
                a.BM_Inventory,
                a.CommodityCode,
                a.ProductionQTY,
                a.Receipts,
                a.DomesticSales,
                a.Export,
                a.OtherSales,
                a.ME_Inventory,
                a.UnitPrice,
                b.ShipmentValue,
                b.SalesPlan
        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';

-- Figgures by Commodity List View
drop view VW_PastRecordScope;

create view VW_PastRecordScope
as
select  PastRecord.ISIC,
                PastRecord.Year,
                PastRecord.Month,
                PastRecord.RegistrationNo,
                PastRecord.ItemType,
                PastRecord.CommodityCode,
                PastRecord.Pre_Rev_Mark,
                PastRecord.ProductionQty,
                PastRecord.DomesticSales,
                PastRecord.Export,
                PastRecord.Me_Inventory,
                PastRecord.ShipmentValue,
                PastRecord.Capacity,
                PastRecord.RwMt_MEInventory,
                EstablishmentMaster.SurveyScope
  from  PastRecord, EstablishmentMaster
  where PastRecord.ISIC = EstablishmentMaster.ISIC
        and     PastRecord.RegistrationNo = EstablishmentMaster.RegistrationNo;


-- Growth Rate For Automatic Estimation.
drop view vw_GRForAutoEst;

create view vw_GRForAutoEst(
                ISIC,
                ItemType,
                CommodityCode,
                CurYear,
                CurMonth,
                PreYear,
                PreMonth,
                CurProductionQty,
                PreProductionQty,
                CurReceipts,
                PreReceipts,
                CurDomesticSales,
                PreDomesticSales,
                CurExport,
                PreExport,
                CurOtherSales,
```

```
                PreOtherSales,
                CurShipmentValue,
                PreShipmentValue,
                CurSalesPlan,
                PreSalesPlan,
                CurRwMt_MEInventory,
                PreRwMt_MEInventory,
                CurRwMt_MEInventoryValue,
                PreRwMt_MEInventoryValue) as
        select
                a.ISIC, a.ItemType, a.CommodityCode, a.Year, a.Month, b.Year, b.Month,
                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)),
                sum(b.DomesticSales * decode(b.Atrbt_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.SalesPlan * decode(a.Atrbt_SalesPlan,'V',1,0) * decode(b.Atrbt_Sales
Plan,'V',1,0)),
                sum(b.SalesPlan * decode(a.Atrbt_SalesPlan,'V',1,0) * decode(b.Atrbt_Sales
Plan,'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
        group by a.ISIC, a.ItemType, a.CommodityCode, a.Year, a.Month, b.Year, b.Month;


commit work;

spool off;

exit
```