

Paso 3: Elaborar Volumen de Tráfico de 16 horas por fecha, por dirección.

1. Insertar nuevo Vertical en "línea Y".

2. Elaborar "Código1" casilla de color morado, e insertar fórmula "A3&B3&D3&E3".

3. Elaborar formato de volumen de tráfico de 16 horas.

| Location No. | Direction No. | Date | Month | Day | Code1 | Motorcycle | Car | Bus | Small Truck | Large Truck | Total | Check |
|--------------|---------------|------|-------|-----|-------|------------|-----|-----|-------------|-------------|-------|-------|
| 14           | 0             | 0    | 0     | 0   | 4     | 11312      | 0   | 0   | 0           | 2           | 4     | 1     |
| 4            | 0             | 0    | 0     | 0   | 11    | 11312      | 0   | 0   | 0           | 1           | 11    | 1     |
| 5            | 0             | 0    | 0     | 0   | 7     | 11312      | 0   | 0   | 0           | 1           | 7     | 1     |
| 6            | 0             | 0    | 0     | 0   | 12    | 11312      | 0   | 0   | 0           | 4           | 12    | 1     |
| 7            | 0             | 0    | 0     | 0   | 14    | 11312      | 1   | 0   | 0           | 3           | 14    | 1     |
| 8            | 0             | 0    | 0     | 0   | 6     | 11312      | 1   | 0   | 0           | 1           | 6     | 1     |
| 9            | 0             | 0    | 0     | 0   | 12    | 11312      | 0   | 0   | 0           | 2           | 12    | 1     |
| 10           | 0             | 0    | 0     | 0   | 8     | 11312      | 1   | 0   | 0           | 2           | 8     | 1     |
| 11           | 0             | 0    | 0     | 0   | 13    | 11312      | 1   | 0   | 0           | 3           | 13    | 1     |
| 12           | 0             | 0    | 0     | 0   | 13    | 11312      | 1   | 0   | 0           | 4           | 13    | 1     |
| 13           | 0             | 0    | 0     | 0   | 11    | 11312      | 0   | 0   | 0           | 5           | 11    | 1     |
| 14           | 0             | 0    | 0     | 0   | 11    | 11312      | 0   | 0   | 0           | 1           | 11    | 1     |
| 15           | 0             | 0    | 0     | 0   | 10    | 11312      | 0   | 0   | 0           | 8           | 10    | 1     |
| 16           | 0             | 0    | 0     | 0   | 8     | 11312      | 0   | 0   | 0           | 4           | 8     | 1     |
| 17           | 0             | 0    | 0     | 0   | 15    | 11312      | 0   | 0   | 0           | 4           | 15    | 1     |
| 18           | 0             | 0    | 0     | 0   | 3     | 11312      | 0   | 0   | 0           | 2           | 3     | 1     |
| 19           | 0             | 0    | 0     | 0   | 4     | 12312      | 0   | 0   | 0           | 1           | 4     | 1     |
| 20           | 0             | 0    | 0     | 0   | 1     | 12312      | 0   | 0   | 0           | 0           | 7     | 1     |
| 21           | 0             | 0    | 0     | 0   | 9     | 12312      | 0   | 0   | 0           | 1           | 9     | 1     |
| 22           | 0             | 0    | 0     | 0   | 10    | 12312      | 1   | 0   | 0           | 4           | 10    | 1     |
| 23           | 0             | 0    | 0     | 0   | 15    | 12312      | 5   | 0   | 0           | 3           | 15    | 1     |
| 24           | 0             | 0    | 0     | 0   | 11    | 12312      | 1   | 0   | 0           | 5           | 11    | 1     |
| 25           | 0             | 0    | 0     | 0   | 14    | 12312      | 1   | 0   | 0           | 3           | 14    | 1     |
| 26           | 0             | 0    | 0     | 0   | 11    | 12312      | 0   | 0   | 0           | 5           | 11    | 1     |
| 27           | 0             | 0    | 0     | 0   | 13    | 12312      | 1   | 0   | 0           | 4           | 13    | 1     |
| 28           | 0             | 0    | 0     | 0   | 18    | 12312      | 4   | 0   | 0           | 6           | 18    | 1     |
| 29           | 0             | 0    | 0     | 0   | 25    | 12312      | 0   | 0   | 0           | 12          | 25    | 1     |
| 30           | 0             | 0    | 0     | 0   | 6     | 12312      | 2   | 0   | 0           | 2           | 6     | 1     |
| 31           | 0             | 0    | 0     | 0   | 2     | 12312      | 0   | 0   | 0           | 0           | 2     | 1     |
| 32           | 0             | 0    | 0     | 0   | 2     | 12312      | 0   | 0   | 0           | 1           | 3     | 1     |
| 33           | 0             | 0    | 0     | 0   | 2     | 12312      | 0   | 0   | 0           | 1           | 3     | 1     |
| 34           | 0             | 0    | 0     | 0   | 2     | 12312      | 0   | 0   | 0           | 1           | 3     | 1     |

4. Cálculo para el volumen de tráfico de 16 horas.

1) Establecer el Número Vertical y Horizontal

| Location No. | Direction No. | Date      | Month | Day | Time | Motorcycle | Car | Bus | Small Truck | Large Truck | Total | Check |
|--------------|---------------|-----------|-------|-----|------|------------|-----|-----|-------------|-------------|-------|-------|
| 1            | 1             | 2013/3/12 | 3     | 12  | 6    | 0          | 0   | 0   | 0           | 2           | 4     | 1     |
| 2            | 1             | 2013/3/12 | 3     | 12  | 7    | 0          | 0   | 0   | 0           | 1           | 11    | 1     |
| 3            | 1             | 2013/3/12 | 3     | 12  | 8    | 0          | 0   | 0   | 0           | 0           | 7     | 1     |
| 4            | 1             | 2013/3/12 | 3     | 12  | 9    | 0          | 0   | 0   | 0           | 0           | 4     | 1     |
| 5            | 1             | 2013/3/12 | 3     | 12  | 10   | 0          | 0   | 0   | 0           | 0           | 3     | 1     |
| 6            | 1             | 2013/3/12 | 3     | 12  | 11   | 0          | 0   | 0   | 0           | 0           | 1     | 1     |
| 7            | 1             | 2013/3/12 | 3     | 12  | 12   | 0          | 0   | 0   | 0           | 0           | 4     | 1     |
| 8            | 1             | 2013/3/12 | 3     | 12  | 13   | 0          | 0   | 0   | 0           | 0           | 7     | 1     |
| 9            | 1             | 2013/3/12 | 3     | 12  | 14   | 0          | 0   | 0   | 0           | 0           | 6     | 1     |
| 10           | 1             | 2013/3/12 | 3     | 12  | 15   | 0          | 0   | 0   | 0           | 0           | 8     | 1     |
| 11           | 1             | 2013/3/12 | 3     | 12  | 16   | 0          | 0   | 0   | 0           | 0           | 7     | 1     |
| 12           | 1             | 2013/3/12 | 3     | 12  | 17   | 0          | 0   | 0   | 0           | 0           | 8     | 1     |
| 13           | 1             | 2013/3/12 | 3     | 12  | 18   | 0          | 0   | 0   | 0           | 0           | 13    | 1     |
| 14           | 1             | 2013/3/12 | 3     | 12  | 19   | 0          | 0   | 0   | 0           | 0           | 11    | 1     |
| 15           | 1             | 2013/3/12 | 3     | 12  | 20   | 0          | 0   | 0   | 0           | 0           | 10    | 1     |
| 16           | 1             | 2013/3/12 | 3     | 12  | 21   | 0          | 0   | 0   | 0           | 0           | 8     | 1     |
| 17           | 1             | 2013/3/12 | 3     | 12  | 22   | 0          | 0   | 0   | 0           | 0           | 5     | 1     |
| 18           | 1             | 2013/3/12 | 3     | 12  | 23   | 0          | 0   | 0   | 0           | 0           | 4     | 1     |
| 19           | 1             | 2013/3/12 | 3     | 12  | 24   | 0          | 0   | 0   | 0           | 0           | 1     | 1     |
| 20           | 1             | 2013/3/12 | 3     | 12  | 25   | 0          | 0   | 0   | 0           | 0           | 4     | 1     |
| 21           | 1             | 2013/3/12 | 3     | 12  | 26   | 0          | 0   | 0   | 0           | 0           | 3     | 1     |
| 22           | 1             | 2013/3/12 | 3     | 12  | 27   | 0          | 0   | 0   | 0           | 0           | 5     | 1     |
| 23           | 1             | 2013/3/12 | 3     | 12  | 28   | 0          | 0   | 0   | 0           | 0           | 7     | 1     |
| 24           | 1             | 2013/3/12 | 3     | 12  | 29   | 0          | 0   | 0   | 0           | 0           | 8     | 1     |
| 25           | 1             | 2013/3/12 | 3     | 12  | 30   | 0          | 0   | 0   | 0           | 0           | 10    | 1     |
| 26           | 1             | 2013/3/12 | 3     | 12  | 31   | 0          | 0   | 0   | 0           | 0           | 15    | 1     |
| 27           | 1             | 2013/3/12 | 3     | 12  | 1    | 0          | 0   | 0   | 0           | 0           | 14    | 1     |
| 28           | 1             | 2013/3/12 | 3     | 12  | 2    | 0          | 0   | 0   | 0           | 0           | 11    | 1     |
| 29           | 1             | 2013/3/12 | 3     | 12  | 3    | 0          | 0   | 0   | 0           | 0           | 11    | 1     |
| 30           | 1             | 2013/3/12 | 3     | 12  | 4    | 0          | 0   | 0   | 0           | 0           | 13    | 1     |
| 31           | 1             | 2013/3/12 | 3     | 12  | 5    | 0          | 0   | 0   | 0           | 0           | 13    | 1     |
| 32           | 1             | 2013/3/12 | 3     | 12  | 6    | 0          | 0   | 0   | 0           | 0           | 15    | 1     |
| 33           | 1             | 2013/3/12 | 3     | 12  | 7    | 0          | 0   | 0   | 0           | 0           | 13    | 1     |
| 34           | 1             | 2013/3/12 | 3     | 12  | 8    | 0          | 0   | 0   | 0           | 0           | 15    | 1     |
| 35           | 1             | 2013/3/12 | 3     | 12  | 9    | 0          | 0   | 0   | 0           | 0           | 16    | 1     |
| 36           | 1             | 2013/3/12 | 3     | 12  | 10   | 0          | 0   | 0   | 0           | 0           | 16    | 1     |
| 37           | 1             | 2013/3/12 | 3     | 12  | 11   | 0          | 0   | 0   | 0           | 0           | 18    | 1     |
| 38           | 1             | 2013/3/12 | 3     | 12  | 12   | 0          | 0   | 0   | 0           | 0           | 18    | 1     |
| 39           | 1             | 2013/3/12 | 3     | 12  | 13   | 0          | 0   | 0   | 0           | 0           | 18    | 1     |
| 40           | 1             | 2013/3/12 | 3     | 12  | 14   | 0          | 0   | 0   | 0           | 0           | 18    | 1     |
| 41           | 1             | 2013/3/12 | 3     | 12  | 15   | 0          | 0   | 0   | 0           | 0           | 17    | 1     |
| 42           | 1             | 2013/3/12 | 3     | 12  | 16   | 0          | 0   | 0   | 0           | 0           | 17    | 1     |
| 43           | 1             | 2013/3/12 | 3     | 12  | 17   | 0          | 0   | 0   | 0           | 0           | 17    | 1     |
| 44           | 1             | 2013/3/12 | 3     | 12  | 18   | 0          | 0   | 0   | 0           | 0           | 17    | 1     |
| 45           | 1             | 2013/3/12 | 3     | 12  | 19   | 0          | 0   | 0   | 0           | 0           | 17    | 1     |
| 46           | 1             | 2013/3/12 | 3     | 12  | 20   | 0          | 0   | 0   | 0           | 0           | 17    | 1     |

## 2) Ajustar Filtro

The screenshot shows a Microsoft Excel spreadsheet titled "RS1 Weekday(For Workshop) kaneko.xlsx". The data table has columns for "Location No.", "Date", "Hour", "Time", "Workshop", "Mach", "Mach No.", "Mach No. (2)", "Mach No. (3)", "Mach No. (4)", "Mach No. (5)", "Mach No. (6)", "Mach No. (7)", "Mach No. (8)", "Mach No. (9)", "Mach No. (10)", "Mach No. (11)", "Mach No. (12)", "Mach No. (13)", "Mach No. (14)", "Mach No. (15)", "Mach No. (16)", "Mach No. (17)", "Mach No. (18)", "Mach No. (19)", "Mach No. (20)", "Mach No. (21)", "Mach No. (22)", "Mach No. (23)", "Mach No. (24)", "Mach No. (25)", "Mach No. (26)", "Mach No. (27)", "Mach No. (28)", "Mach No. (29)", "Mach No. (30)", "Mach No. (31)", "Mach No. (32)", "Mach No. (33)", "Mach No. (34)", "Mach No. (35)", "Mach No. (36)", "Mach No. (37)", "Mach No. (38)", "Mach No. (39)", "Mach No. (40)", "Mach No. (41)", "Mach No. (42)", "Mach No. (43)", "Mach No. (44)", "Mach No. (45)", "Mach No. (46)", "Mach No. (47)", "Mach No. (48)", "Mach No. (49)", "Mach No. (50)", "Mach No. (51)", "Mach No. (52)", "Mach No. (53)", "Mach No. (54)", "Mach No. (55)", "Mach No. (56)", "Mach No. (57)", "Mach No. (58)", "Mach No. (59)", "Mach No. (60)", "Mach No. (61)", "Mach No. (62)", "Mach No. (63)", "Mach No. (64)", "Mach No. (65)", "Mach No. (66)", "Mach No. (67)", "Mach No. (68)", "Mach No. (69)", "Mach No. (70)", "Mach No. (71)", "Mach No. (72)", "Mach No. (73)", "Mach No. (74)", "Mach No. (75)", "Mach No. (76)", "Mach No. (77)", "Mach No. (78)", "Mach No. (79)", "Mach No. (80)", "Mach No. (81)", "Mach No. (82)", "Mach No. (83)", "Mach No. (84)", "Mach No. (85)", "Mach No. (86)", "Mach No. (87)", "Mach No. (88)", "Mach No. (89)", "Mach No. (90)", "Mach No. (91)", "Mach No. (92)", "Mach No. (93)", "Mach No. (94)", "Mach No. (95)", "Mach No. (96)", "Mach No. (97)", "Mach No. (98)", "Mach No. (99)", "Mach No. (100)".

## 3) Seleccionar "6" en "Hora"

The screenshot shows the same Microsoft Excel spreadsheet as above. A filter menu is open over the "Hour" column, showing a list of numbers from 1 to 16. The number "6" is selected, and the rows corresponding to "Hour" = 6 are highlighted in orange. The filter menu also shows options for "昇順(S)", "降順(O)", "色で並べ替え(I)", "Time" からフィルターをクリア(C), "色フィルター(F)", and "数値フィルター(N)".



- 5) Insertar “Nueva Hoja” y Pegado Especial (Control+Alt+G) y seleccionar “Valores”. Copiar A1 a E1 e Insertar “Horizontal” y Pegado.

| Location No. | Direction No. | Date      | Month | Day | Time | 1. Motorcycle | 2. Car | 3. Jeep/PWD | 4. Pickup | 5. Minibus (15-30 seats) | 6. Minibus (15-30 seats) | 7. Large Bus | 8. Light Truck | 9. Truck C2 (4Ax) | 10. Truck C3 (3Ax) | 11. Heavy Truck (Truck 44 (4 Ax)) | 12. Heavy Truck (Truck 25 (5 Ax)) | 13. Truck Trailer (Trailer 44 (4 Ax)) | 14. Truck Trailer (Trailer 25 (5 Ax)) | 15. Agriculture Vehicle | 16. Construction Vehicle | 17. Others | Total |
|--------------|---------------|-----------|-------|-----|------|---------------|--------|-------------|-----------|--------------------------|--------------------------|--------------|----------------|-------------------|--------------------|-----------------------------------|-----------------------------------|---------------------------------------|---------------------------------------|-------------------------|--------------------------|------------|-------|
| 3            | 1             | 2013/3/12 | 3     | 12  | 6    | 0             | 0      | 0           | 0         | 0                        | 0                        | 0            | 2              | 0                 | 0                  | 0                                 | 0                                 | 0                                     | 0                                     | 0                       | 0                        | 0          | 4     |
| 4            | 1             | 2013/3/12 | 3     | 12  | 7    | 2             | 2      | 0           | 3         | 1                        | 0                        | 0            | 2              | 0                 | 0                  | 0                                 | 0                                 | 1                                     | 0                                     | 0                       | 0                        | 0          | 11    |
| 5            | 1             | 2013/3/12 | 3     | 12  | 8    | 0             | 1      | 0           | 3         | 0                        | 0                        | 2            | 0              | 0                 | 0                  | 0                                 | 0                                 | 0                                     | 0                                     | 0                       | 0                        | 0          | 7     |
| 6            | 1             | 2013/3/12 | 3     | 12  | 9    | 0             | 0      | 2           | 6         | 0                        | 0                        | 0            | 0              | 0                 | 0                  | 0                                 | 0                                 | 0                                     | 0                                     | 0                       | 0                        | 0          | 12    |
| 7            | 1             | 2013/3/12 | 3     | 12  | 10   | 1             | 1      | 3           | 3         | 0                        | 1                        | 1            | 1              | 0                 | 1                  | 0                                 | 0                                 | 3                                     | 0                                     | 0                       | 0                        | 0          | 14    |
| 8            | 1             | 2013/3/12 | 3     | 12  | 11   | 1             | 0      | 0           | 1         | 1                        | 0                        | 2            | 0              | 0                 | 0                  | 0                                 | 0                                 | 1                                     | 0                                     | 0                       | 0                        | 0          | 6     |
| 9            | 1             | 2013/3/12 | 3     | 12  | 12   | 0             | 0      | 2           | 5         | 0                        | 0                        | 2            | 1              | 0                 | 0                  | 0                                 | 0                                 | 2                                     | 0                                     | 0                       | 0                        | 0          | 12    |
| 10           | 1             | 2013/3/12 | 3     | 12  | 13   | 1             | 1      | 0           | 3         | 0                        | 0                        | 1            | 0              | 0                 | 0                  | 0                                 | 0                                 | 2                                     | 0                                     | 0                       | 0                        | 0          | 8     |
| 11           | 1             | 2013/3/12 | 3     | 12  | 14   | 1             | 2      | 0           | 5         | 0                        | 0                        | 2            | 0              | 0                 | 0                  | 0                                 | 0                                 | 3                                     | 0                                     | 0                       | 0                        | 0          | 13    |
| 12           | 1             | 2013/3/12 | 3     | 12  | 15   | 1             | 0      | 1           | 3         | 0                        | 1                        | 1            | 2              | 0                 | 0                  | 0                                 | 0                                 | 4                                     | 0                                     | 0                       | 0                        | 0          | 13    |
| 13           | 1             | 2013/3/12 | 3     | 12  | 16   | 0             | 0      | 3           | 1         | 0                        | 0                        | 2            | 0              | 0                 | 0                  | 0                                 | 0                                 | 0                                     | 0                                     | 0                       | 0                        | 0          | 11    |
| 14           | 1             | 2013/3/12 | 3     | 12  | 17   | 0             | 2      | 0           | 6         | 0                        | 0                        | 2            | 0              | 0                 | 0                  | 0                                 | 0                                 | 1                                     | 0                                     | 0                       | 0                        | 0          | 11    |
| 15           | 1             | 2013/3/12 | 3     | 12  | 18   | 0             | 0      | 0           | 2         | 0                        | 0                        | 0            | 0              | 0                 | 0                  | 0                                 | 0                                 | 8                                     | 0                                     | 0                       | 0                        | 0          | 10    |
| 16           | 1             | 2013/3/12 | 3     | 12  | 19   | 0             | 0      | 2           | 1         | 0                        | 1                        | 0            | 0              | 0                 | 0                  | 0                                 | 0                                 | 4                                     | 0                                     | 0                       | 0                        | 0          | 8     |
| 17           | 1             | 2013/3/12 | 3     | 12  | 20   | 0             | 0      | 0           | 0         | 0                        | 0                        | 0            | 0              | 0                 | 0                  | 0                                 | 0                                 | 4                                     | 0                                     | 0                       | 0                        | 0          | 4     |
| 18           | 1             | 2013/3/12 | 3     | 12  | 21   | 0             | 0      | 0           | 0         | 0                        | 0                        | 0            | 0              | 1                 | 0                  | 0                                 | 0                                 | 2                                     | 0                                     | 0                       | 0                        | 0          | 3     |
| 19           | 1             | 2013/3/12 | 3     | 12  | 6    | 0             | 0      | 0           | 1         | 0                        | 0                        | 2            | 0              | 0                 | 0                  | 0                                 | 0                                 | 1                                     | 0                                     | 0                       | 0                        | 0          | 4     |
| 20           | 1             | 2013/3/12 | 3     | 12  | 7    | 1             | 0      | 1           | 3         | 0                        | 0                        | 2            | 0              | 0                 | 0                  | 0                                 | 0                                 | 0                                     | 0                                     | 0                       | 0                        | 0          | 7     |
| 21           | 1             | 2013/3/12 | 3     | 12  | 8    | 0             | 0      | 0           | 5         | 0                        | 0                        | 2            | 1              | 0                 | 0                  | 0                                 | 0                                 | 1                                     | 0                                     | 0                       | 0                        | 0          | 9     |
| 22           | 1             | 2013/3/12 | 3     | 12  | 9    | 1             | 0      | 1           | 2         | 1                        | 1                        | 1            | 0              | 0                 | 0                  | 0                                 | 0                                 | 4                                     | 0                                     | 0                       | 0                        | 0          | 10    |
| 23           | 1             | 2013/3/12 | 3     | 12  | 10   | 5             | 0      | 2           | 4         | 0                        | 0                        | 0            | 0              | 1                 | 0                  | 0                                 | 0                                 | 3                                     | 0                                     | 0                       | 0                        | 0          | 15    |
| 24           | 1             | 2013/3/12 | 3     | 12  | 11   | 1             | 0      | 0           | 2         | 0                        | 0                        | 2            | 0              | 0                 | 1                  | 0                                 | 0                                 | 5                                     | 0                                     | 0                       | 0                        | 0          | 11    |
| 25           | 1             | 2013/3/12 | 3     | 12  | 12   | 1             | 1      | 3           | 4         | 0                        | 0                        | 2            | 0              | 0                 | 0                  | 1                                 | 2                                 | 0                                     | 0                                     | 0                       | 0                        | 0          | 14    |
| 26           | 1             | 2013/3/12 | 3     | 12  | 13   | 0             | 0      | 0           | 4         | 0                        | 0                        | 1            | 0              | 0                 | 0                  | 0                                 | 5                                 | 0                                     | 0                                     | 0                       | 0                        | 0          | 11    |
| 27           | 1             | 2013/3/12 | 3     | 12  | 14   | 0             | 1      | 3           | 4         | 0                        | 0                        | 2            | 0              | 0                 | 0                  | 0                                 | 1                                 | 0                                     | 0                                     | 0                       | 0                        | 0          | 11    |

|    | A        | B          | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R |
|----|----------|------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1  | Vertical | Horizontal | 0 | 1 | 2 | 3 | 4 |   |   |   |   |   |   |   |   |   |   |   |
| 2  |          |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 3  |          |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 4  |          |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 5  |          |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 6  |          |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 7  |          |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 8  |          |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 9  |          |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 10 |          |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 11 |          |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 12 |          |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 13 |          |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 14 |          |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 15 |          |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 16 |          |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 17 |          |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 18 |          |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 19 |          |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 20 |          |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 21 |          |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 22 |          |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 23 |          |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 24 |          |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 25 |          |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 26 |          |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 27 |          |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 28 |          |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

- 6) Insertar fórmula “=DESREF(\$A\$3,'Nueva Hoja'!\$A2,'Nueva Hoja'!C\$1)” y Copiar hasta “Día”

The screenshot shows an Excel spreadsheet with the following data structure:

|    | Z  | AA | AB | AC | AD | AE | AF | AG       | AH | AI           | AJ            | AK    | AL    | AM  | AN    | AO         | AP  | AQ  | AR          | AS          | AT    | AU |
|----|----|----|----|----|----|----|----|----------|----|--------------|---------------|-------|-------|-----|-------|------------|-----|-----|-------------|-------------|-------|----|
| 1  | 25 | 26 | 27 | 28 | 29 | 30 | 31 |          |    | Location No. | Direction No. | Date  | Month | Day | Code1 | Motorcycle | Car | Bus | Small Truck | Large Truck | Total |    |
| 2  |    |    |    |    |    |    |    | 16 hours |    |              |               |       |       |     |       |            |     |     |             |             |       |    |
| 3  | 0  | 0  | 2  | 0  | 2  | 4  | 1  | 0        |    | 1            | 1             | 41345 | 3     | 12  |       |            |     |     |             |             |       |    |
| 4  | 2  | 5  | 3  | 0  | 1  | 11 | 1  | 1        |    |              |               |       |       |     |       |            |     |     |             |             |       |    |
| 5  | 0  | 4  | 2  | 0  | 1  | 7  | 1  | 2        |    |              |               |       |       |     |       |            |     |     |             |             |       |    |
| 6  | 0  | 8  | 0  | 0  | 4  | 12 | 1  | 3        |    |              |               |       |       |     |       |            |     |     |             |             |       |    |
| 7  | 1  | 7  | 2  | 1  | 3  | 14 | 1  | 4        |    |              |               |       |       |     |       |            |     |     |             |             |       |    |
| 8  | 1  | 3  | 0  | 1  | 6  | 1  | 5  |          |    |              |               |       |       |     |       |            |     |     |             |             |       |    |
| 9  | 0  | 7  | 2  | 1  | 2  | 12 | 1  | 6        |    |              |               |       |       |     |       |            |     |     |             |             |       |    |
| 10 | 1  | 4  | 1  | 0  | 2  | 8  | 1  | 7        |    |              |               |       |       |     |       |            |     |     |             |             |       |    |
| 11 | 1  | 7  | 2  | 0  | 3  | 13 | 1  | 8        |    |              |               |       |       |     |       |            |     |     |             |             |       |    |
| 12 | 1  | 4  | 2  | 0  | 4  | 13 | 1  | 9        |    |              |               |       |       |     |       |            |     |     |             |             |       |    |
| 13 | 0  | 4  | 2  | 0  | 5  | 11 | 1  | 10       |    |              |               |       |       |     |       |            |     |     |             |             |       |    |
| 14 | 0  | 8  | 2  | 0  | 1  | 11 | 1  | 11       |    |              |               |       |       |     |       |            |     |     |             |             |       |    |
| 15 | 0  | 2  | 0  | 0  | 8  | 10 | 1  | 12       |    |              |               |       |       |     |       |            |     |     |             |             |       |    |
| 16 | 0  | 3  | 1  | 0  | 4  | 8  | 1  | 13       |    |              |               |       |       |     |       |            |     |     |             |             |       |    |
| 17 | 0  | 0  | 0  | 0  | 4  | 4  | 1  | 14       |    |              |               |       |       |     |       |            |     |     |             |             |       |    |
| 18 | 0  | 0  | 0  | 1  | 2  | 3  | 1  | 15       |    |              |               |       |       |     |       |            |     |     |             |             |       |    |
| 19 | 0  | 1  | 2  | 0  | 1  | 4  | 1  | 16       |    |              |               |       |       |     |       |            |     |     |             |             |       |    |
| 20 | 1  | 4  | 2  | 0  | 0  | 7  | 1  | 17       |    |              |               |       |       |     |       |            |     |     |             |             |       |    |
| 21 | 0  | 5  | 2  | 1  | 1  | 9  | 1  | 18       |    |              |               |       |       |     |       |            |     |     |             |             |       |    |
| 22 | 1  | 3  | 2  | 0  | 4  | 10 | 1  | 19       |    |              |               |       |       |     |       |            |     |     |             |             |       |    |
| 23 | 5  | 6  | 0  | 1  | 3  | 15 | 1  | 20       |    |              |               |       |       |     |       |            |     |     |             |             |       |    |
| 24 | 1  | 2  | 2  | 1  | 5  | 11 | 1  | 21       |    |              |               |       |       |     |       |            |     |     |             |             |       |    |
| 25 | 1  | 8  | 2  | 0  | 3  | 14 | 1  | 22       |    |              |               |       |       |     |       |            |     |     |             |             |       |    |
| 26 | 0  | 4  | 1  | 1  | 5  | 11 | 1  | 23       |    |              |               |       |       |     |       |            |     |     |             |             |       |    |
| 27 | 0  | 8  | 2  | 0  | 1  | 11 | 1  | 24       |    |              |               |       |       |     |       |            |     |     |             |             |       |    |

- 7) Elaborar “Código1” otra vez “AI3&AJ3&AL3&AM3” y Copiar

The screenshot shows the same Excel spreadsheet as above, but with the formula bar containing the formula: `=AI3&AJ3&AL3&AM3`. This formula is applied to cell AI3, which now displays the concatenated value: `41345312`.

8) Insertar fórmula “=SUMAR.SI(\$Y\$3:\$Y\$354,\$AN3,Z\$3:Z\$354)” y Copiar

Formula: `=SUMIF($Y$3:$Y$354,$AN3,Z$3:Z$354)`

|    | 16 Construction Vehicle | 17 Others | Total | Code1 | Motorcycle | Car | Bus | Small Truck | Large Truck | Total | Check | Location No. | Direction No. | Date | Month | Day   | Code1 | Motorcycle | Car   | Bus | Small Truck | Large Truck | Total |    |
|----|-------------------------|-----------|-------|-------|------------|-----|-----|-------------|-------------|-------|-------|--------------|---------------|------|-------|-------|-------|------------|-------|-----|-------------|-------------|-------|----|
| 2  | 0                       | 0         | 4     | 11312 | 0          | 0   | 2   | 0           | 2           | 4     | 1     | 0            | 16 hours      | 1    | 1     | 41345 | 3     | 12         | 11312 | 7   | 64          | 24          | 5     | 47 |
| 3  | 0                       | 0         | 11    | 11312 | 2          | 5   | 3   | 0           | 1           | 11    | 1     | 1            | 1             | 2    | 41345 | 3     | 12    | 12312      | 18    | 62  | 22          | 9           | 49    |    |
| 4  | 0                       | 0         | 7     | 11312 | 0          | 4   | 2   | 0           | 1           | 7     | 1     | 2            | 1             | 1    | 41346 | 3     | 13    | 11313      | 9     | 56  | 23          | 8           | 60    |    |
| 5  | 0                       | 0         | 12    | 11312 | 0          | 8   | 0   | 0           | 4           | 12    | 1     | 3            | 2             | 2    | 41346 | 3     | 13    | 12313      | 6     | 45  | 23          | 8           | 76    |    |
| 6  | 0                       | 0         | 14    | 11312 | 1          | 7   | 2   | 1           | 3           | 14    | 1     | 4            | 2             | 1    | 41345 | 3     | 12    | 21312      | 11    | 32  | 17          | 10          | 30    |    |
| 7  | 0                       | 0         | 6     | 11312 | 0          | 7   | 2   | 0           | 1           | 6     | 1     | 5            | 2             | 2    | 41345 | 3     | 12    | 2312       | 8     | 37  | 18          | 3           | 28    |    |
| 8  | 0                       | 0         | 8     | 11312 | 0          | 7   | 2   | 0           | 1           | 6     | 1     | 6            | 2             | 2    | 41346 | 3     | 13    | 21313      | 15    | 40  | 18          | 9           | 20    |    |
| 9  | 0                       | 0         | 12    | 11312 | 0          | 7   | 2   | 0           | 1           | 8     | 1     | 7            | 2             | 2    | 41367 | 4     | 3     | 3143       | 54    | 123 | 12          | 34          | 296   |    |
| 10 | 0                       | 0         | 8     | 11312 | 1          | 4   | 2   | 0           | 2           | 8     | 1     | 9            | 3             | 2    | 41367 | 4     | 3     | 3243       | 65    | 120 | 12          | 25          | 217   |    |
| 11 | 0                       | 0         | 13    | 11312 | 1          | 4   | 2   | 0           | 3           | 13    | 1     | 8            | 3             | 2    | 41368 | 4     | 4     | 3144       | 61    | 152 | 14          | 33          | 309   |    |
| 12 | 0                       | 0         | 13    | 11312 | 1          | 4   | 2   | 0           | 4           | 13    | 1     | 9            | 3             | 2    | 41368 | 4     | 4     | 3144       | 61    | 152 | 14          | 33          | 309   |    |
| 13 | 0                       | 0         | 11    | 11312 | 0          | 4   | 2   | 0           | 5           | 11    | 1     | 10           | 3             | 2    | 41368 | 4     | 4     | 3144       | 47    | 135 | 12          | 35          | 239   |    |
| 14 | 0                       | 0         | 11    | 11312 | 0          | 4   | 2   | 0           | 5           | 11    | 1     | 10           | 3             | 2    | 41368 | 4     | 4     | 3144       | 47    | 135 | 12          | 35          | 239   |    |
| 15 | 0                       | 0         | 10    | 11312 | 0          | 2   | 0   | 0           | 8           | 10    | 1     | 12           | 4             | 1    | 41367 | 4     | 3     | 4143       | 19    | 63  | 29          | 24          | 276   |    |
| 16 | 0                       | 0         | 10    | 11312 | 0          | 2   | 0   | 0           | 8           | 10    | 1     | 12           | 4             | 1    | 41367 | 4     | 3     | 4143       | 19    | 63  | 29          | 24          | 276   |    |
| 17 | 0                       | 0         | 8     | 11312 | 0          | 2   | 0   | 0           | 4           | 8     | 1     | 13           | 4             | 2    | 41367 | 4     | 3     | 4243       | 14    | 65  | 31          | 19          | 260   |    |
| 18 | 0                       | 0         | 4     | 11312 | 0          | 0   | 0   | 0           | 4           | 4     | 1     | 14           | 4             | 1    | 41368 | 4     | 4     | 4144       | 16    | 68  | 25          | 17          | 274   |    |
| 19 | 0                       | 0         | 4     | 11312 | 0          | 0   | 0   | 0           | 4           | 4     | 1     | 15           | 4             | 2    | 41368 | 4     | 4     | 4244       | 19    | 80  | 32          | 29          | 303   |    |
| 20 | 0                       | 0         | 3     | 11312 | 0          | 0   | 0   | 1           | 2           | 3     | 1     | 16           | 5             | 1    | 41340 | 3     | 7     | 5137       | 193   | 539 | 59          | 183         | 75    |    |
| 21 | 0                       | 0         | 4     | 12312 | 0          | 1   | 2   | 0           | 1           | 4     | 1     | 16           | 5             | 2    | 41340 | 3     | 7     | 5237       | 181   | 545 | 54          | 184         | 100   |    |
| 22 | 0                       | 0         | 7     | 12312 | 1          | 3   | 2   | 0           | 1           | 9     | 1     | 18           | 6             | 1    | 41352 | 3     | 19    | 61319      | 155   | 574 | 98          | 246         | 131   |    |
| 23 | 0                       | 0         | 10    | 12312 | 1          | 3   | 2   | 0           | 4           | 10    | 1     | 19           | 6             | 2    | 41352 | 3     | 19    | 62319      | 166   | 611 | 95          | 220         | 105   |    |
| 24 | 0                       | 0         | 11    | 12312 | 5          | 6   | 2   | 0           | 5           | 11    | 1     | 20           | 6             | 1    | 41353 | 3     | 20    | 61320      | 164   | 626 | 89          | 224         | 166   |    |
| 25 | 0                       | 0         | 14    | 12312 | 1          | 8   | 2   | 0           | 3           | 14    | 1     | 21           | 6             | 2    | 41353 | 3     | 20    | 62320      | 163   | 624 | 89          | 225         | 142   |    |
| 26 | 0                       | 0         | 11    | 12312 | 0          | 8   | 2   | 0           | 1           | 11    | 1     | 23           |               |      |       |       |       |            |       |     |             |             |       |    |
| 27 | 0                       | 0         | 11    | 12312 | 0          | 8   | 2   | 0           | 1           | 11    | 1     | 24           |               |      |       |       |       |            |       |     |             |             |       |    |

Formula: `=SUM(AC6:AS6)`

|    | Car | Bus | Small Truck | Large Truck | Total | Check | Location No. | Direction No. | Date | Month | Day   | Code1 | Motorcycle | Car   | Bus | Small Truck | Large Truck | Total |    |  |  |  |  |
|----|-----|-----|-------------|-------------|-------|-------|--------------|---------------|------|-------|-------|-------|------------|-------|-----|-------------|-------------|-------|----|--|--|--|--|
| 2  | 0   | 2   | 0           | 2           | 4     | 1     | 0            | 16 hours      | 1    | 1     | 41345 | 3     | 12         | 11312 | 7   | 64          | 24          | 5     | 47 |  |  |  |  |
| 3  | 0   | 3   | 0           | 1           | 11    | 1     | 1            | 1             | 2    | 41345 | 3     | 12    | 12312      | 18    | 62  | 22          | 9           | 49    |    |  |  |  |  |
| 4  | 4   | 2   | 0           | 1           | 7     | 1     | 2            | 1             | 1    | 41346 | 3     | 13    | 11313      | 9     | 56  | 23          | 8           | 60    |    |  |  |  |  |
| 5  | 8   | 0   | 0           | 4           | 12    | 1     | 3            | 2             | 2    | 41346 | 3     | 13    | 12313      | 6     | 45  | 23          | 8           | 76    |    |  |  |  |  |
| 6  | 7   | 2   | 1           | 3           | 14    | 1     | 4            | 2             | 1    | 41345 | 3     | 12    | 21312      | 11    | 32  | 17          | 10          | 30    |    |  |  |  |  |
| 7  | 1   | 3   | 0           | 1           | 6     | 1     | 5            | 2             | 2    | 41345 | 3     | 12    | 2312       | 8     | 37  | 18          | 3           | 28    |    |  |  |  |  |
| 8  | 7   | 2   | 1           | 2           | 12    | 1     | 6            | 2             | 2    | 41346 | 3     | 13    | 21313      | 15    | 40  | 18          | 9           | 20    |    |  |  |  |  |
| 9  | 7   | 1   | 0           | 2           | 8     | 1     | 7            | 2             | 2    | 41346 | 3     | 13    | 22313      | 6     | 35  | 17          | 8           | 26    |    |  |  |  |  |
| 10 | 7   | 2   | 0           | 2           | 13    | 1     | 8            | 3             | 1    | 41367 | 4     | 3     | 3143       | 54    | 123 | 12          | 34          | 296   |    |  |  |  |  |
| 11 | 4   | 2   | 2           | 4           | 13    | 1     | 9            | 3             | 2    | 41367 | 4     | 3     | 3243       | 65    | 120 | 12          | 25          | 217   |    |  |  |  |  |
| 12 | 4   | 2   | 0           | 5           | 11    | 1     | 10           | 3             | 2    | 41368 | 4     | 4     | 3144       | 61    | 152 | 14          | 33          | 309   |    |  |  |  |  |
| 13 | 4   | 2   | 0           | 1           | 11    | 1     | 11           | 3             | 2    | 41368 | 4     | 4     | 3144       | 61    | 152 | 14          | 33          | 309   |    |  |  |  |  |
| 14 | 8   | 2   | 0           | 1           | 11    | 1     | 11           | 3             | 2    | 41368 | 4     | 4     | 3144       | 47    | 135 | 12          | 35          | 239   |    |  |  |  |  |
| 15 | 2   | 0   | 0           | 8           | 10    | 1     | 12           | 4             | 1    | 41367 | 4     | 3     | 4143       | 19    | 63  | 29          | 24          | 276   |    |  |  |  |  |
| 16 | 3   | 1   | 0           | 4           | 8     | 1     | 13           | 4             | 2    | 41367 | 4     | 3     | 4243       | 14    | 65  | 31          | 19          | 260   |    |  |  |  |  |
| 17 | 0   | 0   | 0           | 4           | 4     | 1     | 14           | 4             | 1    | 41368 | 4     | 4     | 4144       | 16    | 68  | 25          | 17          | 274   |    |  |  |  |  |
| 18 | 0   | 0   | 1           | 15          | 4     | 1     | 15           | 4             | 2    | 41368 | 4     | 4     | 4244       | 19    | 80  | 32          | 29          | 303   |    |  |  |  |  |
| 19 | 1   | 2   | 0           | 1           | 4     | 1     | 16           | 5             | 1    | 41340 | 3     | 7     | 5137       | 193   | 539 | 59          | 183         | 75    |    |  |  |  |  |
| 20 | 4   | 2   | 0           | 0           | 7     | 1     | 17           | 5             | 2    | 41340 | 3     | 7     | 5237       | 181   | 545 | 54          | 184         | 100   |    |  |  |  |  |
| 21 | 5   | 2   | 1           | 1           | 9     | 1     | 18           | 6             | 1    | 41352 | 3     | 19    | 61319      | 155   | 574 | 98          | 246         | 131   |    |  |  |  |  |
| 22 | 3   | 2   | 0           | 4           | 10    | 1     | 19           | 6             | 2    | 41352 | 3     | 19    | 62319      | 166   | 611 | 95          | 220         | 105   |    |  |  |  |  |
| 23 | 6   | 0   | 1           | 3           | 15    | 1     | 20           | 6             | 1    | 41353 | 3     | 20    | 61320      | 164   | 626 | 89          | 224         | 166   |    |  |  |  |  |
| 24 | 2   | 2   | 1           | 5           | 11    | 1     | 21           | 6             | 2    | 41353 | 3     | 20    | 62320      | 163   | 624 | 89          | 225         | 142   |    |  |  |  |  |
| 25 | 6   | 2   | 0           | 3           | 14    | 1     | 22           |               |      |       |       |       |            |       |     |             |             |       |    |  |  |  |  |
| 26 | 4   | 1   | 1           | 5           | 11    | 1     | 23           |               |      |       |       |       |            |       |     |             |             |       |    |  |  |  |  |
| 27 | 8   | 2   | 0           | 1           | 11    | 1     | 24           |               |      |       |       |       |            |       |     |             |             |       |    |  |  |  |  |

Formula: `=SUM(AC6:AS6)`

|    | Large Truck | Total | Check | Location No. | Direction No. | Date | Month | Day   | Code1 | Motorcycle | Car   | Bus | Small Truck | Large Truck | Total |    |  |  |  |  |  |  |  |
|----|-------------|-------|-------|--------------|---------------|------|-------|-------|-------|------------|-------|-----|-------------|-------------|-------|----|--|--|--|--|--|--|--|
| 2  | 0           | 4     | 1     | 0            | 16 hours      | 1    | 1     | 41345 | 3     | 12         | 11312 | 7   | 64          | 24          | 5     | 47 |  |  |  |  |  |  |  |
| 3  | 2           | 11    | 1     | 1            | 1             | 2    | 41345 | 3     | 12    | 12312      | 18    | 62  | 22          | 9           | 49    |    |  |  |  |  |  |  |  |
| 4  | 1           | 7     | 1     | 2            | 1             | 1    | 41346 | 3     | 13    | 11313      | 9     | 56  | 23          | 8           | 60    |    |  |  |  |  |  |  |  |
| 5  | 0           | 12    | 1     | 3            | 2             | 2    | 41346 | 3     | 13    | 12313      | 6     | 45  | 23          | 8           | 76    |    |  |  |  |  |  |  |  |
| 6  | 7           | 14    | 1     | 4            | 2             | 1    | 41345 | 3     | 12    | 21312      | 11    | 32  | 17          | 10          | 30    |    |  |  |  |  |  |  |  |
| 7  | 1           | 6     | 1     | 5            | 2             | 2    | 41345 | 3     | 12    | 2312       | 8     | 37  | 18          | 3           | 28    |    |  |  |  |  |  |  |  |
| 8  | 7           | 12    | 1     | 6            | 2             | 2    | 41346 | 3     | 13    | 21313      | 15    | 40  | 18          | 9           | 20    |    |  |  |  |  |  |  |  |
| 9  | 2           | 8     | 1     | 7            | 2             | 2    | 41346 | 3     | 13    | 22313      | 6     | 35  | 17          | 8           | 26    |    |  |  |  |  |  |  |  |
| 10 | 3           | 13    | 1     | 8            | 3             | 1    | 41367 | 4     | 3     | 3143       | 54    | 123 | 12          | 34          | 296   |    |  |  |  |  |  |  |  |
| 11 | 4           | 13    | 1     | 9            | 3             | 2    | 41367 | 4     | 3     | 3243       | 65    | 120 | 12          | 25          | 217   |    |  |  |  |  |  |  |  |
| 12 | 4           | 13    | 1     | 10           | 3             | 2    | 41368 | 4     | 4     | 3144       | 61    | 152 | 14          | 33          | 309   |    |  |  |  |  |  |  |  |
| 13 | 5           | 11    | 1     | 10           | 3             | 2    | 41368 | 4     | 4     | 3144       | 61    | 152 | 14          | 33          | 309   |    |  |  |  |  |  |  |  |
| 14 | 1           | 11    | 1     | 11           | 3             | 2    | 41368 | 4     | 4     | 3244       | 47    | 135 | 12          | 35          | 239   |    |  |  |  |  |  |  |  |
| 15 | 8           | 10    | 1     | 12           | 4             | 1    | 41367 | 4     | 3     | 4143       | 19    | 63  | 29          | 24          | 276   |    |  |  |  |  |  |  |  |
| 16 | 4           | 8     | 1     | 13           | 4             | 2    | 41367 | 4     | 3     | 4243       | 14    | 65  | 31          | 19          | 260   |    |  |  |  |  |  |  |  |
| 17 | 4           | 4     | 1     | 14           | 4             | 1    | 41368 | 4     | 4     | 4144       | 16    | 68  | 25          | 17          | 274   |    |  |  |  |  |  |  |  |
| 18 | 2           | 3     | 1     | 15           | 4             | 2    | 41368 | 4     | 4     | 4244       | 19    | 80  | 32          | 29          | 303   |    |  |  |  |  |  |  |  |
| 19 | 1           | 4     | 1     | 16           | 5             | 1    | 41340 | 3     | 7     | 5137       | 193   | 539 | 59          | 183         | 75    |    |  |  |  |  |  |  |  |
| 20 | 0           | 7     | 1     | 17           | 5             | 2    | 41340 | 3     | 7     | 5237       | 181   | 545 | 54          | 184         | 100   |    |  |  |  |  |  |  |  |
| 21 | 1           | 9     | 1     | 18           | 6             | 1    | 41352 | 3     | 19    | 61319      | 155   | 574 | 98          | 246         | 131   |    |  |  |  |  |  |  |  |
| 22 | 4           | 10    | 1     | 19           | 6             | 2    | 41352 | 3     | 19    | 62319      | 166   | 611 | 95          | 220         | 105   |    |  |  |  |  |  |  |  |
| 23 | 3           | 15    | 1     | 20           | 6             | 1    | 41353 | 3     | 20    | 61320      | 164   | 626 | 89          | 224         | 166   |    |  |  |  |  |  |  |  |
| 24 | 5           | 11    | 1     | 21           | 6             | 2    | 41353 | 3     | 20    | 62320      | 163   | 624 | 89          | 225         | 142   |    |  |  |  |  |  |  |  |
| 25 | 3           | 14    | 1     | 22           |               |      |       |       |       |            |       |     |             |             |       |    |  |  |  |  |  |  |  |
| 26 | 5           | 11    | 1     | 23           |               |      |       |       |       |            |       |     |             |             |       |    |  |  |  |  |  |  |  |
| 27 | 1           | 11    | 1     | 24           |               |      |       |       |       |            |       |     |             |             |       |    |  |  |  |  |  |  |  |

Paso 4: Volumen Muestra e Índice Muestra

1. Elaborar formato

Estos datos OD tienen 6 lugares, 2 direcciones, cambiado a 5 clasificaciones de vehículos y fecha. Por lo tanto, el formato será elaborado como se muestra a continuación.

(Estación 1, 2, 3, 4, 6 son encuestas de 2 días, Estación 5 es encuesta de 1 día)

| Lacation | Direction | Date | Classification | Sample Volume | Traffic Volume | Sample Rate |
|----------|-----------|------|----------------|---------------|----------------|-------------|
| 1        | 1         | 1    | 1              | 1             |                |             |
| 1        | 1         | 1    | 1              | 2             |                |             |
| 1        | 1         | 1    | 1              | 3             |                |             |
| 1        | 1         | 1    | 1              | 4             |                |             |
| 1        | 1         | 1    | 1              | 5             |                |             |
| 1        | 2         | 1    | 1              | 1             |                |             |
| 1        | 2         | 1    | 1              | 2             |                |             |
| 1        | 2         | 1    | 1              | 3             |                |             |
| 1        | 2         | 1    | 1              | 4             |                |             |
| 1        | 2         | 1    | 1              | 5             |                |             |
| 1        | 1         | 2    | 1              | 1             |                |             |
| 1        | 1         | 2    | 2              | 2             |                |             |
| 1        | 1         | 2    | 3              | 3             |                |             |
| 1        | 1         | 2    | 4              | 4             |                |             |
| 1        | 1         | 2    | 5              | 5             |                |             |
| 1        | 2         | 2    | 1              | 1             |                |             |
| 1        | 2         | 2    | 2              | 2             |                |             |
| 1        | 2         | 2    | 3              | 3             |                |             |
| 1        | 2         | 2    | 4              | 4             |                |             |
| 1        | 2         | 2    | 5              | 5             |                |             |
| 2        | 1         | 1    | 1              | 1             |                |             |
| 2        | 1         | 1    | 1              | 2             |                |             |
| 2        | 1         | 1    | 1              | 3             |                |             |
| 2        | 1         | 1    | 1              | 4             |                |             |
| 2        | 1         | 1    | 1              | 5             |                |             |
| 2        | 2         | 1    | 1              | 1             |                |             |
| 2        | 2         | 1    | 1              | 2             |                |             |
| 2        | 2         | 1    | 1              | 3             |                |             |
| 2        | 2         | 1    | 1              | 4             |                |             |
| 2        | 2         | 1    | 1              | 5             |                |             |
| 2        | 1         | 2    | 1              | 1             |                |             |
| 2        | 1         | 2    | 2              | 2             |                |             |
| 2        | 1         | 2    | 3              | 3             |                |             |
| 2        | 1         | 2    | 4              | 4             |                |             |
| 2        | 1         | 2    | 5              | 5             |                |             |
| 2        | 2         | 2    | 1              | 1             |                |             |
| 2        | 2         | 2    | 2              | 2             |                |             |
| 2        | 2         | 2    | 3              | 3             |                |             |
| 2        | 2         | 2    | 4              | 4             |                |             |
| 2        | 2         | 2    | 5              | 5             |                |             |
| 3        | 1         | 1    | 1              | 1             |                |             |
| 3        | 1         | 1    | 1              | 2             |                |             |
| 3        | 1         | 1    | 1              | 3             |                |             |
| 3        | 1         | 1    | 1              | 4             |                |             |
| 3        | 1         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |
| 3        | 2         | 1    | 1              | 1             |                |             |
| 3        | 2         | 1    | 1              | 2             |                |             |
| 3        | 2         | 1    | 1              | 3             |                |             |
| 3        | 2         | 1    | 1              | 4             |                |             |
| 3        | 2         | 1    | 1              | 5             |                |             |

## 2. Cálculo de Volumen Muestra

Insertar línea vertical en Volumen Muestra y Código 2

|    | New Code | Location | Direction | Date | Classification | Code2 | Sample Volume | Traffic Volume | Sample Rate |
|----|----------|----------|-----------|------|----------------|-------|---------------|----------------|-------------|
| 3  | 1        | 1        | 1         | 1    | 1              | 1     |               |                |             |
| 4  | 2        | 1        | 1         | 1    | 1              | 2     |               |                |             |
| 5  | 3        | 1        | 1         | 1    | 1              | 3     |               |                |             |
| 6  | 4        | 1        | 1         | 1    | 1              | 4     |               |                |             |
| 7  | 5        | 1        | 1         | 1    | 1              | 5     |               |                |             |
| 8  | 6        | 1        | 2         | 1    | 1              | 1     |               |                |             |
| 9  | 7        | 1        | 2         | 1    | 1              | 2     |               |                |             |
| 10 | 8        | 1        | 2         | 1    | 1              | 3     |               |                |             |
| 11 | 9        | 1        | 2         | 1    | 1              | 4     |               |                |             |
| 12 | 10       | 1        | 2         | 1    | 1              | 5     |               |                |             |
| 13 | 11       | 1        | 1         | 2    | 1              | 1     |               |                |             |
| 14 | 12       | 1        | 1         | 2    | 2              | 2     |               |                |             |
| 15 | 13       | 1        | 1         | 2    | 3              | 3     |               |                |             |
| 16 | 14       | 1        | 1         | 2    | 4              | 4     |               |                |             |
| 17 | 15       | 1        | 1         | 2    | 5              | 5     |               |                |             |
| 18 | 16       | 1        | 2         | 2    | 1              | 1     |               |                |             |
| 19 | 17       | 1        | 2         | 2    | 2              | 2     |               |                |             |
| 20 | 18       | 1        | 2         | 2    | 3              | 3     |               |                |             |
| 21 | 19       | 1        | 2         | 2    | 4              | 4     |               |                |             |
| 22 | 20       | 1        | 2         | 2    | 5              | 5     |               |                |             |
| 23 | 21       | 2        | 1         | 1    | 1              | 1     |               |                |             |
| 24 | 22       | 2        | 1         | 1    | 2              | 2     |               |                |             |
| 25 | 23       | 2        | 1         | 1    | 3              | 3     |               |                |             |

## 3. Calcular Volumen Muestra

1) Insertar Línea Vertical en Volumen Muestra y Código 2 (=N3&O3&P3&Q3):

Lugar&Dirección&Fecha&Clasificación

|    | New Code | Location | Direction | Date | Classification | Code2        | Sample Volume | Traffic Volume | Sample Rate |
|----|----------|----------|-----------|------|----------------|--------------|---------------|----------------|-------------|
| 3  | 1        | 1        | 1         | 1    | 1              | =N3&O3&P3&Q3 |               |                |             |
| 4  | 2        | 1        | 1         | 1    | 1              | 2            |               |                |             |
| 5  | 3        | 1        | 1         | 1    | 1              | 3            |               |                |             |
| 6  | 4        | 1        | 1         | 1    | 1              | 4            |               |                |             |
| 7  | 5        | 1        | 1         | 1    | 1              | 5            |               |                |             |
| 8  | 6        | 1        | 2         | 1    | 1              | 1            |               |                |             |
| 9  | 7        | 1        | 2         | 1    | 1              | 2            |               |                |             |
| 10 | 8        | 1        | 2         | 1    | 1              | 3            |               |                |             |
| 11 | 9        | 1        | 2         | 1    | 1              | 4            |               |                |             |
| 12 | 10       | 1        | 2         | 1    | 1              | 5            |               |                |             |
| 13 | 11       | 1        | 1         | 2    | 1              | 1            |               |                |             |
| 14 | 12       | 1        | 1         | 2    | 2              | 2            |               |                |             |
| 15 | 13       | 1        | 1         | 2    | 3              | 3            |               |                |             |
| 16 | 14       | 1        | 1         | 2    | 4              | 4            |               |                |             |
| 17 | 15       | 1        | 1         | 2    | 5              | 5            |               |                |             |
| 18 | 16       | 1        | 2         | 2    | 1              | 1            |               |                |             |
| 19 | 17       | 1        | 2         | 2    | 2              | 2            |               |                |             |
| 20 | 18       | 1        | 2         | 2    | 3              | 3            |               |                |             |
| 21 | 19       | 1        | 2         | 2    | 4              | 4            |               |                |             |
| 22 | 20       | 1        | 2         | 2    | 5              | 5            |               |                |             |
| 23 | 21       | 2        | 1         | 1    | 1              | 1            |               |                |             |
| 24 | 22       | 2        | 1         | 1    | 2              | 2            |               |                |             |
| 25 | 23       | 2        | 1         | 1    | 3              | 3            |               |                |             |

2) Insertar línea vertical en Tipo de Vehículo en la Hoja Principal de Datos, específicamente “Nuevo Tipo de Vehículo”

The screenshot shows an Excel spreadsheet with the following columns: Survey\_Sample, Station, Direction, Date, Plate\_Registratio, Plate\_3digits, Type of Vehicle, New Type of Vehicle, Vehicle Ownership, Occupancy, Origin Place, Destination Place, Trip Purpose, Travel Frequency, and Put Fuel (la). The 'New Type of Vehicle' column is highlighted in blue and contains the number 7 for all rows.

3) Cambiar código de vehículo para usar nuevo código de vehículo en la Hoja de Lista de Códigos. Insertar fórmula “=CONSULTAV(G2,'nombre de hoja'!\$A\$3:\$C\$19,3,FALSO)”.

The screenshot shows the same Excel spreadsheet as above, but with a formula in the 'New Type of Vehicle' column. The formula is: `=VLOOKUP(G2,'code list'!$A$3:$C$19,3,FALSE)`. A tooltip for the VLOOKUP function is visible over the formula cell, showing the syntax: `VLOOKUP(検索値, 範囲, 列番号, (検索方法))`.

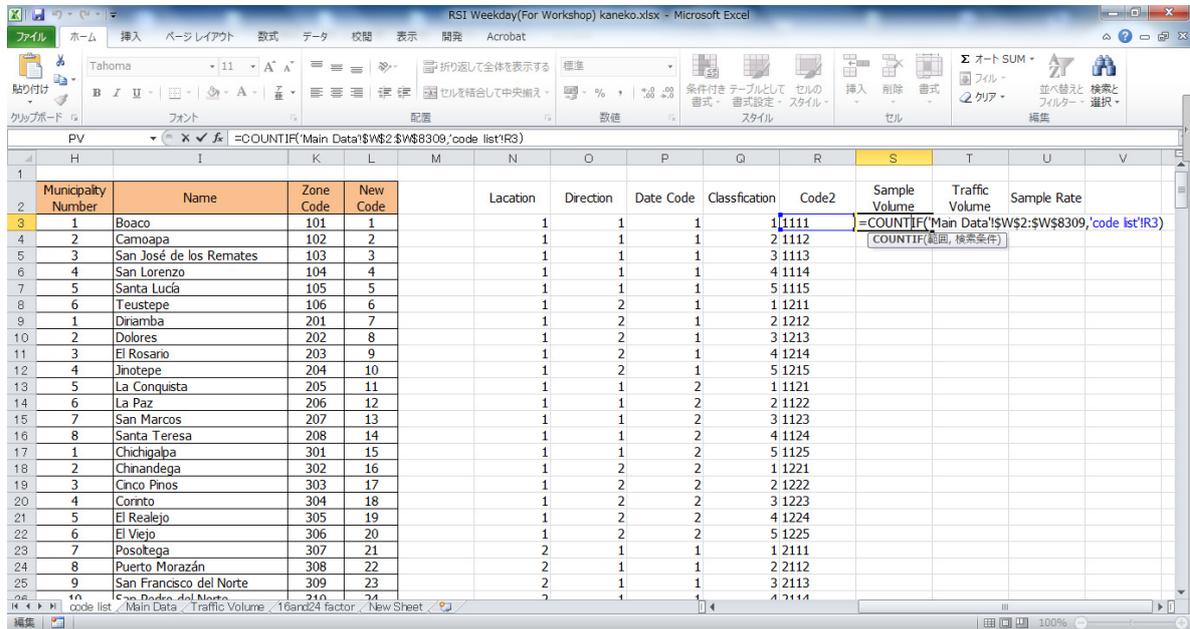
- 4) Insertar línea vertical en Registro\_Placa en la Hoja Principal de Datos y propiamente “Código de Datos” e insertar fórmula “=CONSULTAV(D2,'VolumendeTráfico'!\$AK\$3:\$AL\$24,2,FALSO)”

| Survey_Sample | Station | Direction | Date | Date Code | Plate_Registration | Plate_3digits | Type of Vehicle | New Type of Vehicle | Vehicle Ownership | Occupancy | Origin Place | Destination Place | Trip Purpose | Travel Frequency |
|---------------|---------|-----------|------|-----------|--------------------|---------------|-----------------|---------------------|-------------------|-----------|--------------|-------------------|--------------|------------------|
| 2             | 1       | 1         | 2    | 2013/3/12 | NS                 | 004           | 7               | 3                   | 3                 | 2         | 1302         | 1308              | 1            | 07               |
| 3             | 2       | 1         | 2    | 2013/3/12 | HO                 | 417           | 4               | 2                   | 1                 | 2         | 3011         | 1308              | 1            | 00               |
| 4             | 4       | 1         | 2    | 2013/3/12 | NS                 | 013           | 7               | 3                   | 3                 | 2         | 1302         | 1308              | 1            | 21               |
| 5             | 6       | 1         | 2    | 2013/3/12 | NS                 | 015           | 7               | 3                   | 3                 | 2         | 1302         | 1308              | 1            | 21               |
| 6             | 7       | 1         | 2    | 2013/3/12 | NS                 | 635           | 4               | 2                   | 2                 | 2         | 1311         | 1308              | 1            | 04               |
| 7             | 9       | 1         | 2    | 2013/3/12 | HO                 | 051           | 4               | 2                   | 2                 | 2         | 3013         | 1003              | 1            | 00               |
| 8             | 10      | 1         | 2    | 2013/3/12 | HO                 | 051           | 3               | 2                   | 2                 | 4         | 3013         | 1003              | 1            | 00               |
| 9             | 11      | 1         | 2    | 2013/3/12 | CO                 | 092           | 7               | 3                   | 2                 | 16        | 3011         | 1003              | 1            | 07               |
| 10            | 12      | 1         | 2    | 2013/3/12 | NS                 | 074           | 7               | 3                   | 3                 | 2         | 1302         | 1308              | 1            | 21               |
| 11            | 13      | 1         | 2    | 2013/3/12 | HO                 | 765           | 4               | 2                   | 1                 | 2         | 3013         | 1308              | 7            | 00               |
| 12            | 16      | 1         | 2    | 2013/3/12 | HO                 | 108           | 14              | 5                   | 2                 | 2         | 3008         | 1003              | 1            | 42               |
| 13            | 18      | 1         | 2    | 2013/3/12 | LE                 |               | 8               | 4                   | 2                 | 2         | 1311         | 502               | 1            | 03               |
| 14            | 19      | 1         | 2    | 2013/3/12 | MZ                 | 017           | 7               | 3                   | 3                 | 2         | 1302         | 905               | 1            | 07               |
| 15            | 20      | 1         | 2    | 2013/3/12 | HO                 | 784           | 4               | 2                   | 1                 | 2         | 3013         | 1308              | 7            | 00               |
| 16            | 21      | 1         | 2    | 2013/3/12 | HO                 | 097           | 4               | 2                   | 1                 | 2         | 3011         | 905               | 1            | 01               |
| 17            | 22      | 1         | 2    | 2013/3/12 | HO                 | 618           | 5               | 3                   | 2                 | 2         | 3011         | 1308              | 1            | 01               |
| 18            | 23      | 1         | 2    | 2013/3/12 | HO                 | 051           | 3               | 2                   | 1                 | 2         | 3003         | 1203              | 5            | 00               |
| 19            | 24      | 1         | 2    | 2013/3/12 | HO                 | 125           | 14              | 5                   | 1                 | 1         | 3008         | 603               | 1            | 00               |
| 20            | 25      | 1         | 2    | 2013/3/12 | HO                 | 904           | 6               | 3                   | 1                 | 20        | 3003         | 1308              | 2            | 03               |
| 21            | 26      | 1         | 2    | 2013/3/12 | M                  | 906           | 14              | 5                   | 1                 | 1         | 3006         | 1507              | 1            | 33               |
| 22            | 27      | 1         | 2    | 2013/3/12 | US                 | 003           | 1               | 1                   | 1                 | 1         | 7005         | 2014              | 5            | 00               |
| 23            | 28      | 1         | 2    | 2013/3/12 | HO                 | 633           | 4               | 2                   | 2                 | 3         | 3011         | 1003              | 1            | 00               |
| 24            | 31      | 1         | 2    | 2013/3/12 | HO                 | 101           | 4               | 2                   | 1                 | 1         | 3011         | 1003              | 5            | 00               |
| 25            | 33      | 1         | 2    | 2013/3/12 | HO                 | 290           | 1               | 1                   | 1                 | 1         | 3011         | 1003              | 5            | 00               |
| 26            | 34      | 1         | 2    | 2013/3/12 | HO                 | 576           | 1               | 1                   | 1                 | 1         | 3011         | 1003              | 1            | 00               |
| 27            | 35      | 1         | 2    | 2013/3/12 | M                  | 653           | 4               | 2                   | 1                 | 2         | 3011         | 1003              | 4            | 00               |
| 28            | 36      | 1         | 2    | 2013/3/12 | M                  | 644           | 14              | 5                   | 2                 | 2         | 3013         | 1507              | 1            | 01               |

- 5) Elaborar propiamente “Datos2” e introducir fórmula “=B2&C2&E2&I2” : Lugar&Dirección&Fecha&Clasificación

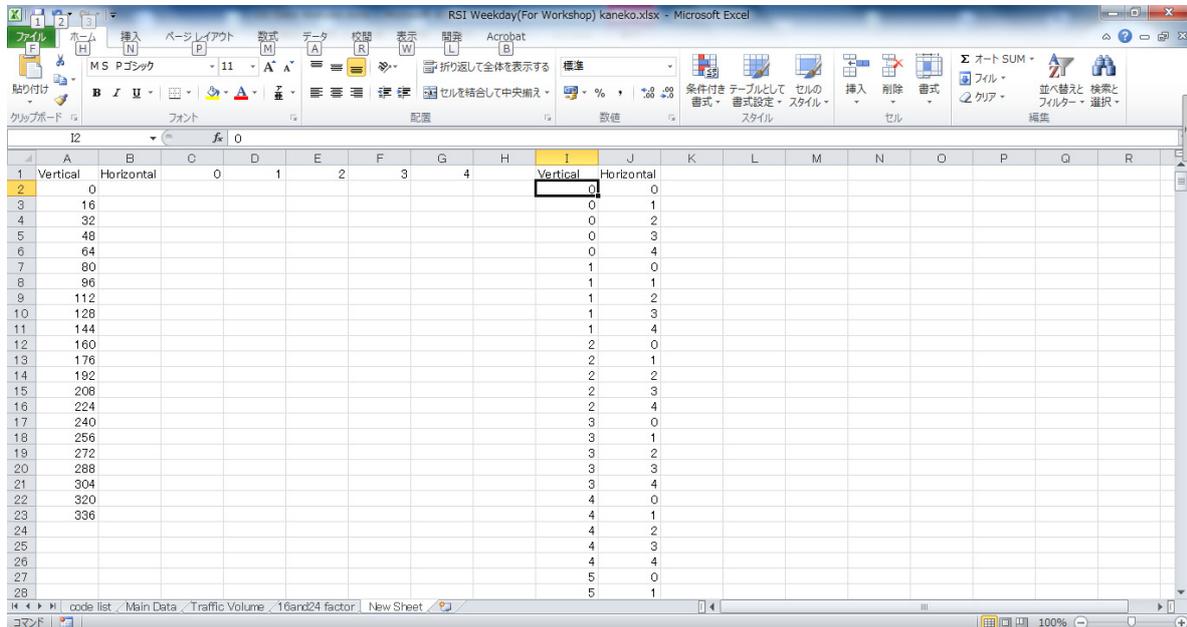
| Survey_Sample | Station | Origin Place | Destination Place | Trip Purpose | Travel Frequency | Put Fuel (last) | Put Fuel (next) | Type of Freight Carried | Loading_Vol | Observation | Valid_Trip | Check | Code2        |
|---------------|---------|--------------|-------------------|--------------|------------------|-----------------|-----------------|-------------------------|-------------|-------------|------------|-------|--------------|
| 2             | 1       | 1302         | 1308              | 1            | 07               |                 |                 |                         |             |             | 0          | 1     | =B2&C2&E2&I2 |
| 3             | 2       | 3011         | 1308              | 1            | 00               |                 |                 |                         |             |             | 0          | 1     |              |
| 4             | 4       | 1302         | 1308              | 1            | 21               |                 |                 |                         |             |             | 0          | 1     |              |
| 5             | 6       | 1302         | 1308              | 1            | 21               |                 |                 |                         |             |             | 0          | 1     |              |
| 6             | 7       | 1311         | 1308              | 1            | 04               |                 |                 |                         |             |             | 0          | 1     |              |
| 7             | 9       | 3013         | 1003              | 1            | 00               |                 |                 |                         |             |             | 0          | 1     |              |
| 8             | 10      | 3013         | 1003              | 1            | 00               |                 |                 |                         |             |             | 0          | 1     |              |
| 9             | 11      | 3011         | 1003              | 1            | 07               |                 |                 |                         |             |             | 0          | 1     |              |
| 10            | 12      | 1302         | 1308              | 1            | 21               |                 |                 |                         |             |             | 0          | 1     |              |
| 11            | 13      | 3013         | 1308              | 7            | 00               |                 |                 |                         |             |             | 0          | 1     |              |
| 12            | 16      | 3008         | 1003              | 1            | 42               | 3013            | 1003            | 11                      | 4           |             | 0          | 1     |              |
| 13            | 18      | 1311         | 502               | 1            | 03               | 1308            | 1308            |                         | 0           | TRPO UE     | 0          | 1     |              |
| 14            | 19      | 1302         | 905               | 1            | 07               |                 |                 |                         |             |             | 0          | 1     |              |
| 15            | 20      | 3013         | 1308              | 7            | 00               |                 |                 |                         |             |             | 0          | 1     |              |
| 16            | 21      | 3011         | 905               | 1            | 01               |                 |                 |                         |             |             | 0          | 1     |              |
| 17            | 22      | 3011         | 1308              | 1            | 01               |                 |                 |                         |             | NUMERU DE   | 0          | 1     |              |
| 18            | 23      | 3003         | 1203              | 5            | 00               |                 |                 |                         |             |             | 0          | 1     |              |
| 19            | 24      | 3008         | 603               | 1            | 00               | 3013            | 3013            | 3                       | 4           |             | 0          | 1     |              |
| 20            | 25      | 3003         | 1308              | 2            | 03               |                 |                 |                         |             |             | 0          | 1     |              |
| 21            | 26      | 3006         | 1507              | 1            | 33               |                 |                 | 18                      | 3           |             | 0          | 1     |              |
| 22            | 27      | 7005         | 2014              | 5            | 00               |                 |                 |                         |             |             | 0          | 1     |              |
| 23            | 28      | 3011         | 1003              | 1            | 00               |                 |                 |                         |             |             | 0          | 1     |              |
| 24            | 31      | 3011         | 1003              | 5            | 00               |                 |                 |                         |             |             | 0          | 1     |              |
| 25            | 33      | 3011         | 1003              | 5            | 00               |                 |                 |                         |             |             | 0          | 1     |              |
| 26            | 34      | 3011         | 1003              | 1            | 00               |                 |                 |                         |             |             | 0          | 1     |              |
| 27            | 35      | 3011         | 1003              | 4            | 00               |                 |                 |                         |             |             | 0          | 1     |              |
| 28            | 36      | 3013         | 1507              | 1            | 01               | 1003            | 1003            |                         | 4           | TRPO UE     | 0          | 1     |              |

6) Insertar fórmula “= CONTAR.SI ('Datos Principales'!\$W\$2:\$W\$8309,'Lista de Códigos'!R3)”



#### 4. Insertar Volumen de Tráfico

1) Primero, elaborar código en Nueva Hoja de Código como se muestra a continuación.



2) Insertar fórmula “=DESREF('Volumen de Tráfico'!\$AP\$3,'Nueva Hoja'!I2,'Nueva Hoja'!J2)”

|    | H  | I                       | K    | L         | M        | N        | O         | P         | Q              | R     | S             | T   | U           | V |
|----|----|-------------------------|------|-----------|----------|----------|-----------|-----------|----------------|-------|---------------|---|-------------|---|
| 1  |    |                         |      |           |          |          |           |           |                |       |               |   |             |   |
| 2  |    | Municipality Number     | Name | Zone Code | New Code | Location | Direction | Date Code | Classification | Code2 | Sample Volume | Traffic Volume  | Sample Rate |   |
| 3  | 1  | Boaco                   |      | 101       | 1        | 1        | 1         | 1         | 1              | 1111  | 2             | =OFFSET('Traffic Volume'!\$AP\$3,'New Sheet'!I2,'New Sheet'!J2) |             |   |
| 4  | 2  | Camoapa                 |      | 102       | 2        | 1        | 1         | 1         | 2              | 1112  | 46            |   |             |   |
| 5  | 3  | San José de los Remates |      | 103       | 3        | 1        | 1         | 1         | 3              | 1113  | 21            |   |             |   |
| 6  | 4  | San Lorenzo             |      | 104       | 4        | 1        | 1         | 1         | 4              | 1114  | 4             |   |             |   |
| 7  | 5  | Santa Lucía             |      | 105       | 5        | 1        | 1         | 1         | 5              | 1115  | 40            |   |             |   |
| 8  | 6  | Teustepe                |      | 106       | 6        | 1        | 2         | 1         | 1              | 1211  | 13            |   |             |   |
| 9  | 1  | Diramba                 |      | 201       | 7        | 1        | 2         | 1         | 2              | 1212  | 40            |   |             |   |
| 10 | 2  | Dolores                 |      | 202       | 8        | 1        | 2         | 1         | 3              | 1213  | 23            |   |             |   |
| 11 | 3  | El Rosario              |      | 203       | 9        | 1        | 2         | 1         | 4              | 1214  | 9             |   |             |   |
| 12 | 4  | Jinotepe                |      | 204       | 10       | 1        | 2         | 1         | 5              | 1215  | 42            |   |             |   |
| 13 | 5  | La Conquista            |      | 205       | 11       | 1        | 1         | 2         | 1              | 1121  | 7             |   |             |   |
| 14 | 6  | La Paz                  |      | 206       | 12       | 1        | 1         | 2         | 2              | 1122  | 50            |   |             |   |
| 15 | 7  | San Marcos              |      | 207       | 13       | 1        | 1         | 2         | 3              | 1123  | 22            |   |             |   |
| 16 | 8  | Santa Teresa            |      | 208       | 14       | 1        | 1         | 2         | 4              | 1124  | 8             |   |             |   |
| 17 | 1  | Chichigalpa             |      | 301       | 15       | 1        | 1         | 2         | 5              | 1125  | 51            |   |             |   |
| 18 | 2  | Chinandega              |      | 302       | 16       | 1        | 2         | 2         | 1              | 1221  | 3             |   |             |   |
| 19 | 3  | Cinco Pinos             |      | 303       | 17       | 1        | 2         | 2         | 2              | 1222  | 36            |   |             |   |
| 20 | 4  | Corinto                 |      | 304       | 18       | 1        | 2         | 2         | 3              | 1223  | 20            |   |             |   |
| 21 | 5  | El Realejo              |      | 305       | 19       | 1        | 2         | 2         | 4              | 1224  | 6             |   |             |   |
| 22 | 6  | El Viejo                |      | 306       | 20       | 1        | 2         | 2         | 5              | 1225  | 64            |   |             |   |
| 23 | 7  | Posotepe                |      | 307       | 21       | 2        | 1         | 1         | 1              | 1211  | 7             |   |             |   |
| 24 | 8  | Puerto Morazán          |      | 308       | 22       | 2        | 1         | 1         | 2              | 2112  | 27            |   |             |   |
| 25 | 9  | San Francisco del Norte |      | 309       | 23       | 2        | 1         | 1         | 3              | 2113  | 14            |   |             |   |
| 26 | 10 | San Dolores del Mar     |      | 310       | 24       | 2        | 1         | 1         | 4              | 2114  | 9             |   |             |   |

### 5. Calcular Índice Muestra

Insertar fórmula “=T3/S3”

|    | H  | I                       | K    | L         | M        | N        | O         | P         | Q              | R     | S             | T              | U           | V |
|----|----|-------------------------|------|-----------|----------|----------|-----------|-----------|----------------|-------|---------------|----------------|-------------|---|
| 1  |    |                         |      |           |          |          |           |           |                |       |               |                |             |   |
| 2  |    | Municipality Number     | Name | Zone Code | New Code | Location | Direction | Date Code | Classification | Code2 | Sample Volume | Traffic Volume | Sample Rate |   |
| 3  | 1  | Boaco                   |      | 101       | 1        | 1        | 1         | 1         | 1              | 1111  | 2             | 46             | =T3/S3      |   |
| 4  | 2  | Camoapa                 |      | 102       | 2        | 1        | 1         | 1         | 2              | 1112  | 46            |                |             |   |
| 5  | 3  | San José de los Remates |      | 103       | 3        | 1        | 1         | 1         | 3              | 1113  | 21            |                |             |   |
| 6  | 4  | San Lorenzo             |      | 104       | 4        | 1        | 1         | 1         | 4              | 1114  | 4             |                |             |   |
| 7  | 5  | Santa Lucía             |      | 105       | 5        | 1        | 1         | 1         | 5              | 1115  | 40            |                |             |   |
| 8  | 6  | Teustepe                |      | 106       | 6        | 1        | 2         | 1         | 1              | 1211  | 13            |                |             |   |
| 9  | 1  | Diramba                 |      | 201       | 7        | 1        | 2         | 1         | 2              | 1212  | 40            |                |             |   |
| 10 | 2  | Dolores                 |      | 202       | 8        | 1        | 2         | 1         | 3              | 1213  | 23            |                |             |   |
| 11 | 3  | El Rosario              |      | 203       | 9        | 1        | 2         | 1         | 4              | 1214  | 9             |                |             |   |
| 12 | 4  | Jinotepe                |      | 204       | 10       | 1        | 2         | 1         | 5              | 1215  | 42            |                |             |   |
| 13 | 5  | La Conquista            |      | 205       | 11       | 1        | 1         | 2         | 1              | 1121  | 7             |                |             |   |
| 14 | 6  | La Paz                  |      | 206       | 12       | 1        | 1         | 2         | 2              | 1122  | 50            |                |             |   |
| 15 | 7  | San Marcos              |      | 207       | 13       | 1        | 1         | 2         | 3              | 1123  | 22            |                |             |   |
| 16 | 8  | Santa Teresa            |      | 208       | 14       | 1        | 1         | 2         | 4              | 1124  | 8             |                |             |   |
| 17 | 1  | Chichigalpa             |      | 301       | 15       | 1        | 1         | 2         | 5              | 1125  | 51            |                |             |   |
| 18 | 2  | Chinandega              |      | 302       | 16       | 1        | 2         | 2         | 1              | 1221  | 3             |                |             |   |
| 19 | 3  | Cinco Pinos             |      | 303       | 17       | 1        | 2         | 2         | 2              | 1222  | 36            |                |             |   |
| 20 | 4  | Corinto                 |      | 304       | 18       | 1        | 2         | 2         | 3              | 1223  | 20            |                |             |   |
| 21 | 5  | El Realejo              |      | 305       | 19       | 1        | 2         | 2         | 4              | 1224  | 6             |                |             |   |
| 22 | 6  | El Viejo                |      | 306       | 20       | 1        | 2         | 2         | 5              | 1225  | 64            |                |             |   |
| 23 | 7  | Posotepe                |      | 307       | 21       | 2        | 1         | 1         | 1              | 1211  | 7             |                |             |   |
| 24 | 8  | Puerto Morazán          |      | 308       | 22       | 2        | 1         | 1         | 2              | 2112  | 27            |                |             |   |
| 25 | 9  | San Francisco del Norte |      | 309       | 23       | 2        | 1         | 1         | 3              | 2113  | 14            |                |             |   |
| 26 | 10 | San Dolores del Mar     |      | 310       | 24       | 2        | 1         | 1         | 4              | 2114  | 9             |                |             |   |

## 6. Elaborar Tabla Inicial OD

- 1) Ingresar “O TAZ 161”, “D TAZ 161”, “Índice Muestra”, “Factor Diario”, “Factor TPDA”, “Factor de Dos Días” y “Factor de Ampliación”

| Survey_Sample | Station | Valid_Trip | Check | Code2 | New Type of Vehicle | O TAZ161 | D TAZ161 | Sample Rate | Daily factor | AADT factor | Twodays Factor | EXPANSION Factor |
|---------------|---------|------------|-------|-------|---------------------|----------|----------|-------------|--------------|-------------|----------------|------------------|
| 1             | 1       | 1          | 0     | 1     | 1213                | 3        |          |             |              |             |                |                  |
| 2             | 1       | 1          | 0     | 1     | 1212                | 2        |          |             |              |             |                |                  |
| 3             | 2       | 1          | 0     | 1     | 1213                | 3        |          |             |              |             |                |                  |
| 4             | 4       | 1          | 0     | 1     | 1213                | 3        |          |             |              |             |                |                  |
| 5             | 6       | 1          | 0     | 1     | 1213                | 3        |          |             |              |             |                |                  |
| 6             | 7       | 1          | 0     | 1     | 1212                | 2        |          |             |              |             |                |                  |
| 7             | 9       | 1          | 0     | 1     | 1212                | 2        |          |             |              |             |                |                  |
| 8             | 10      | 1          | 0     | 1     | 1212                | 2        |          |             |              |             |                |                  |
| 9             | 11      | 1          | 0     | 1     | 1213                | 3        |          |             |              |             |                |                  |
| 10            | 12      | 1          | 0     | 1     | 1213                | 3        |          |             |              |             |                |                  |
| 11            | 13      | 1          | 0     | 1     | 1212                | 2        |          |             |              |             |                |                  |
| 12            | 16      | 1          | 0     | 1     | 1215                | 5        |          |             |              |             |                |                  |
| 13            | 18      | 1          | 0     | 1     | 1214                | 4        |          |             |              |             |                |                  |
| 14            | 19      | 1          | 0     | 1     | 1213                | 3        |          |             |              |             |                |                  |
| 15            | 20      | 1          | 0     | 1     | 1212                | 2        |          |             |              |             |                |                  |
| 16            | 21      | 1          | 0     | 1     | 1212                | 2        |          |             |              |             |                |                  |
| 17            | 22      | 1          | 0     | 1     | 1213                | 3        |          |             |              |             |                |                  |
| 18            | 23      | 1          | 0     | 1     | 1212                | 2        |          |             |              |             |                |                  |
| 19            | 24      | 1          | 0     | 1     | 1215                | 5        |          |             |              |             |                |                  |
| 20            | 25      | 1          | 0     | 1     | 1213                | 3        |          |             |              |             |                |                  |
| 21            | 26      | 1          | 0     | 1     | 1215                | 5        |          |             |              |             |                |                  |
| 22            | 27      | 1          | 0     | 1     | 1211                | 1        |          |             |              |             |                |                  |
| 23            | 28      | 1          | 0     | 1     | 1212                | 2        |          |             |              |             |                |                  |
| 24            | 31      | 1          | 0     | 1     | 1212                | 2        |          |             |              |             |                |                  |
| 25            | 33      | 1          | 0     | 1     | 1211                | 1        |          |             |              |             |                |                  |
| 26            | 34      | 1          | 0     | 1     | 1211                | 1        |          |             |              |             |                |                  |
| 27            | 35      | 1          | 0     | 1     | 1212                | 2        |          |             |              |             |                |                  |
| 28            | 36      | 1          | 0     | 1     | 1215                | 5        |          |             |              |             |                |                  |

- 2) Insertar fórmula “=BUSCARV(L2,'lista de códigos'!\$K\$3:\$L\$213,2,FALSO)” y “=BUSCARV(M2,'lista de códigos'!\$K\$3:\$L\$213,2,FALSO)” en O TAX 161 y D TAZ 161, respectivamente.

| Survey_Sample | Station | Loading_Vol | Observation         | Valid_Trip | Check | Code2 | New Type of Vehicle | O TAZ161   | D TAZ161 | Sample Rate | Daily factor | AADT factor | Twodays Factor | EXPANSION Factor |
|---------------|---------|-------------|---------------------|------------|-------|-------|---------------------|--|----------|-------------|--------------|-------------|----------------|------------------|
| 1             | 1       |             |                     | 0          | 1     |       |                     |  |          |             |              |             |                |                  |
| 2             | 1       |             |                     | 0          | 1     | 1212  | 2                   | =VLOOKUP(L2,'code list'!\$K\$3:\$L\$213,2,FALSE) |          |             |              |             |                |                  |
| 3             | 2       |             |                     | 0          | 1     | 1213  | 3                   |  |          |             |              |             |                |                  |
| 4             | 4       |             |                     | 0          | 1     | 1213  | 3                   |  |          |             |              |             |                |                  |
| 5             | 6       |             |                     | 0          | 1     | 1213  | 3                   |  |          |             |              |             |                |                  |
| 6             | 7       |             |                     | 0          | 1     | 1212  | 2                   |  |          |             |              |             |                |                  |
| 7             | 9       |             |                     | 0          | 1     | 1212  | 2                   |  |          |             |              |             |                |                  |
| 8             | 10      |             |                     | 0          | 1     | 1212  | 2                   |  |          |             |              |             |                |                  |
| 9             | 11      |             |                     | 0          | 1     | 1213  | 3                   |  |          |             |              |             |                |                  |
| 10            | 12      |             |                     | 0          | 1     | 1213  | 3                   |  |          |             |              |             |                |                  |
| 11            | 13      |             |                     | 0          | 1     | 1212  | 2                   |  |          |             |              |             |                |                  |
| 12            | 16      | 4           |                     | 0          | 1     | 1215  | 5                   |  |          |             |              |             |                |                  |
| 13            | 18      | 0           | TIPO DE CARGA       | 0          | 1     | 1214  | 4                   |  |          |             |              |             |                |                  |
| 14            | 19      |             |                     | 0          | 1     | 1213  | 3                   |  |          |             |              |             |                |                  |
| 15            | 20      |             |                     | 0          | 1     | 1212  | 2                   |  |          |             |              |             |                |                  |
| 16            | 21      |             |                     | 0          | 1     | 1212  | 2                   |  |          |             |              |             |                |                  |
| 17            | 22      |             | NUMERO DE OPERACION | 0          | 1     | 1213  | 3                   |  |          |             |              |             |                |                  |
| 18            | 23      |             |                     | 0          | 1     | 1212  | 2                   |  |          |             |              |             |                |                  |
| 19            | 24      | 4           |                     | 0          | 1     | 1215  | 5                   |  |          |             |              |             |                |                  |
| 20            | 25      |             |                     | 0          | 1     | 1213  | 3                   |  |          |             |              |             |                |                  |
| 21            | 26      | 3           |                     | 0          | 1     | 1215  | 5                   |  |          |             |              |             |                |                  |
| 22            | 27      |             |                     | 0          | 1     | 1211  | 1                   |  |          |             |              |             |                |                  |
| 23            | 28      |             |                     | 0          | 1     | 1212  | 2                   |  |          |             |              |             |                |                  |
| 24            | 31      |             |                     | 0          | 1     | 1212  | 2                   |  |          |             |              |             |                |                  |
| 25            | 33      |             |                     | 0          | 1     | 1211  | 1                   |  |          |             |              |             |                |                  |
| 26            | 34      |             |                     | 0          | 1     | 1211  | 1                   |  |          |             |              |             |                |                  |
| 27            | 35      |             |                     | 0          | 1     | 1212  | 2                   |  |          |             |              |             |                |                  |
| 28            | 36      | 4           | TIPO DE             | 0          | 1     | 1215  | 5                   |  |          |             |              |             |                |                  |

- 3) Introducir fórmula “=DESREF('factor16y24 '\$A\$2,'Datos Principales'!B2,'Datos Principales'!H2)” en Factor Diario.

| Survey_Sample | Station | Loading_Vol | Observation | Valid_Trip | Check | Code2 | New Type of Vehicle | O TAZ161 | D TAZ161 | Sample Rate | Daily factor | AADT factor |
|---------------|---------|-------------|-------------|------------|-------|-------|---------------------|----------|----------|-------------|--------------|-------------|
| 1             | 1       |             |             | 0          | 1     | 1213  | 3                   | 107      | 113      | 0.956521739 | 1.0137       |             |
| 2             | 1       |             |             | 0          | 1     | 1212  | 2                   | 158      | 113      | 0.956521739 | 1.0137       |             |
| 3             | 1       |             |             | 0          | 1     | 1213  | 3                   | 107      | 113      | 0.956521739 | 1.0137       |             |
| 4             | 1       |             |             | 0          | 1     | 1213  | 3                   | 107      | 113      | 0.956521739 | 1.0137       |             |
| 5             | 1       |             |             | 0          | 1     | 1213  | 3                   | 107      | 113      | 0.956521739 | 1.0137       |             |
| 6             | 1       |             |             | 0          | 1     | 1212  | 2                   | 116      | 113      | 1.55        | 1.0154       |             |
| 7             | 1       |             |             | 0          | 1     | 1212  | 2                   | 158      | 77       | 1.55        | 1.0154       |             |
| 8             | 1       |             |             | 0          | 1     | 1212  | 2                   | 158      | 77       | 1.55        | 1.0505       |             |
| 9             | 1       |             |             | 0          | 1     | 1213  | 3                   | 158      | 77       | 0.956521739 | 1.0137       |             |
| 10            | 1       |             |             | 0          | 1     | 1213  | 3                   | 107      | 113      | 0.956521739 | 1.0137       |             |
| 11            | 1       |             |             | 0          | 1     | 1212  | 2                   | 158      | 113      | 1.55        | 1.0154       |             |
| 12            | 1       | 4           |             | 0          | 1     | 1215  | 5                   | 158      | 77       | 1.166666667 | 1.0000       |             |
| 13            | 1       | 0           |             | 0          | 1     | 1214  | 4                   | 116      | 39       | 1           | 1.0679       |             |
| 14            | 1       |             |             | 0          | 1     | 1213  | 3                   | 107      | 70       | 0.956521739 | 1.0137       |             |
| 15            | 1       |             |             | 0          | 1     | 1212  | 2                   | 158      | 113      | 1.55        | 1.0154       |             |
| 16            | 1       |             |             | 0          | 1     | 1212  | 2                   | 158      | 70       | 1.55        | 1.0154       |             |
| 17            | 1       |             |             | 0          | 1     | 1213  | 3                   | 158      | 113      | 0.956521739 | 1.0315       |             |
| 18            | 1       |             |             | 0          | 1     | 1212  | 2                   | 158      | 95       | 1.55        | 1.0505       |             |
| 19            | 1       | 4           |             | 0          | 1     | 1215  | 5                   | 158      | 46       | 1.166666667 | 1.0000       |             |
| 20            | 1       |             |             | 0          | 1     | 1213  | 3                   | 158      | 113      | 0.956521739 | 0.9650       |             |
| 21            | 1       | 3           |             | 0          | 1     | 1215  | 5                   | 159      | 130      | 1.166666667 | 1.0000       |             |
| 22            | 1       |             |             | 0          | 1     | 1211  | 1                   | 161      | 154      | 1.384615385 | 0.9962       |             |
| 23            | 1       |             |             | 0          | 1     | 1212  | 2                   | 158      | 77       | 1.55        | 1.0154       |             |

- 4) Insertar fórmula “=DESREF('factor16y24 '\$A\$12,'Datos Principales'!B2,'Datos Principales'!H2)” en Factor TPDA.

| Survey_Sample | Station | Code2 | New Type of Vehicle | O TAZ161 | D TAZ161 | Sample Rate | Daily factor | AADT factor | Twodays Factor | EXPANSION Factor |
|---------------|---------|-------|---------------------|----------|----------|-------------|--------------|-------------|----------------|------------------|
| 1             | 1       |       |                     |          |          |             |              |             |                |                  |
| 2             | 1       | 1213  | 3                   | 107      | 113      |             |              |             |                |                  |
| 3             | 1       | 1212  | 2                   | 158      | 113      |             |              |             |                |                  |
| 4             | 1       | 1213  | 3                   | 107      | 113      | 0.956521739 | 1.0137       | 1.0070      |                |                  |
| 5             | 1       | 1213  | 3                   | 107      | 113      | 0.956521739 | 1.0137       | 1.0070      |                |                  |
| 6             | 1       | 1212  | 2                   | 116      | 113      | 1.55        | 1.0154       | 1.0035      |                |                  |
| 7             | 1       | 1212  | 2                   | 158      | 77       | 1.55        | 1.0154       | 1.0035      |                |                  |
| 8             | 1       | 1212  | 2                   | 158      | 77       | 1.55        | 1.0505       | 1.0128      |                |                  |
| 9             | 1       | 1213  | 3                   | 158      | 77       | 0.956521739 | 1.0137       | 1.0070      |                |                  |
| 10            | 1       | 1213  | 3                   | 107      | 113      | 0.956521739 | 1.0137       | 1.0070      |                |                  |
| 11            | 1       | 1212  | 2                   | 158      | 113      | 1.55        | 1.0154       | 1.0035      |                |                  |
| 12            | 1       | 1215  | 5                   | 158      | 77       | 1.166666667 | 1.0000       | 1.0000      |                |                  |
| 13            | 1       | 1214  | 4                   | 116      | 39       | 1           | 1.0679       | 1.0044      |                |                  |
| 14            | 1       | 1213  | 3                   | 107      | 70       | 0.956521739 | 1.0137       | 1.0070      |                |                  |
| 15            | 1       | 1212  | 2                   | 158      | 113      | 1.55        | 1.0154       | 1.0035      |                |                  |
| 16            | 1       | 1212  | 2                   | 158      | 70       | 1.55        | 1.0154       | 1.0035      |                |                  |
| 17            | 1       | 1213  | 3                   | 158      | 113      | 0.956521739 | 1.0315       | 1.0041      |                |                  |
| 18            | 1       | 1212  | 2                   | 158      | 95       | 1.55        | 1.0505       | 1.0128      |                |                  |
| 19            | 1       | 1215  | 5                   | 158      | 46       | 1.166666667 | 1.0000       | 1.0000      |                |                  |
| 20            | 1       | 1213  | 3                   | 158      | 113      | 0.956521739 | 0.9650       | 1.0006      |                |                  |
| 21            | 1       | 1215  | 5                   | 159      | 130      | 1.166666667 | 1.0000       | 1.0000      |                |                  |
| 22            | 1       | 1211  | 1                   | 161      | 154      | 1.384615385 | 0.9962       | 1.0127      |                |                  |
| 23            | 1       | 1212  | 2                   | 158      | 77       | 1.55        | 1.0154       | 1.0035      |                |                  |

- 5) La encuesta de tráfico de dos días se realizó en la Estación 1, 2, 3, 4, 6. El volumen de ampliación de tráfico será el promedio de volumen de tráfico usando el Factor de Dos Días que es “0.5”, al realizarse la encuesta de tráfico de Dos días.

| Survey_Sample | Station | Code2 | New Type of Vehicle | O TAZ161 | D TAZ161 | Sample Rate | Daily factor | AADT factor | Twodays Factor | EXPANSION Factor |
|---------------|---------|-------|---------------------|----------|----------|-------------|--------------|-------------|----------------|------------------|
| 1             | 1       | 1213  | 3                   | 107      | 113      | 0.956521739 | 1.0137       | 1.0070      | 0.5            |                  |
| 2             | 2       | 1212  | 2                   | 158      | 113      | 1.55        | 1.0154       | 1.0035      | 0.5            |                  |
| 3             | 4       | 1213  | 3                   | 107      | 113      | 0.956521739 | 1.0137       | 1.0070      | 0.5            |                  |
| 4             | 6       | 1213  | 3                   | 107      | 113      | 0.956521739 | 1.0137       | 1.0070      | 0.5            |                  |
| 5             | 7       | 1212  | 2                   | 116      | 113      | 1.55        | 1.0154       | 1.0035      | 0.5            |                  |
| 6             | 9       | 1212  | 2                   | 158      | 77       | 1.55        | 1.0154       | 1.0035      | 0.5            |                  |
| 7             | 10      | 1212  | 2                   | 158      | 77       | 1.55        | 1.0505       | 1.0128      | 0.5            |                  |
| 8             | 11      | 1213  | 3                   | 158      | 77       | 0.956521739 | 1.0137       | 1.0070      | 0.5            |                  |
| 9             | 12      | 1213  | 3                   | 107      | 113      | 0.956521739 | 1.0137       | 1.0070      | 0.5            |                  |
| 10            | 13      | 1212  | 2                   | 158      | 113      | 1.55        | 1.0154       | 1.0035      | 0.5            |                  |
| 11            | 16      | 1215  | 5                   | 158      | 77       | 1.166666667 | 1.0000       | 1.0000      | 0.5            |                  |
| 12            | 18      | 1214  | 4                   | 116      | 39       | 1           | 1.0679       | 1.0044      | 0.5            |                  |
| 13            | 19      | 1213  | 3                   | 107      | 70       | 0.956521739 | 1.0137       | 1.0070      | 0.5            |                  |
| 14            | 20      | 1212  | 2                   | 158      | 113      | 1.55        | 1.0154       | 1.0035      | 0.5            |                  |
| 15            | 21      | 1212  | 2                   | 158      | 70       | 1.55        | 1.0154       | 1.0035      | 0.5            |                  |
| 16            | 22      | 1213  | 3                   | 158      | 113      | 0.956521739 | 1.0315       | 1.0041      | 0.5            |                  |
| 17            | 23      | 1212  | 2                   | 158      | 95       | 1.55        | 1.0505       | 1.0128      | 0.5            |                  |
| 18            | 24      | 1215  | 5                   | 158      | 46       | 1.166666667 | 1.0000       | 1.0000      | 0.5            |                  |
| 19            | 25      | 1213  | 3                   | 158      | 113      | 0.956521739 | 0.9650       | 1.0006      | 0.5            |                  |
| 20            | 26      | 1215  | 5                   | 159      | 130      | 1.166666667 | 1.0000       | 1.0000      | 0.5            |                  |
| 21            | 27      | 1211  | 1                   | 161      | 154      | 1.384615385 | 0.9962       | 1.0127      | 0.5            |                  |
| 22            | 28      | 1212  | 2                   | 158      | 77       | 1.55        | 1.0154       | 1.0035      | 0.5            |                  |

- 6) Calcular Factor de Ampliación usando “Índice Muestra”, “Factor Diario”, “Factor TPDA” y “Factor Dos Días”. La fórmula es “=AA2\*AB2\*AC2\*AD2”

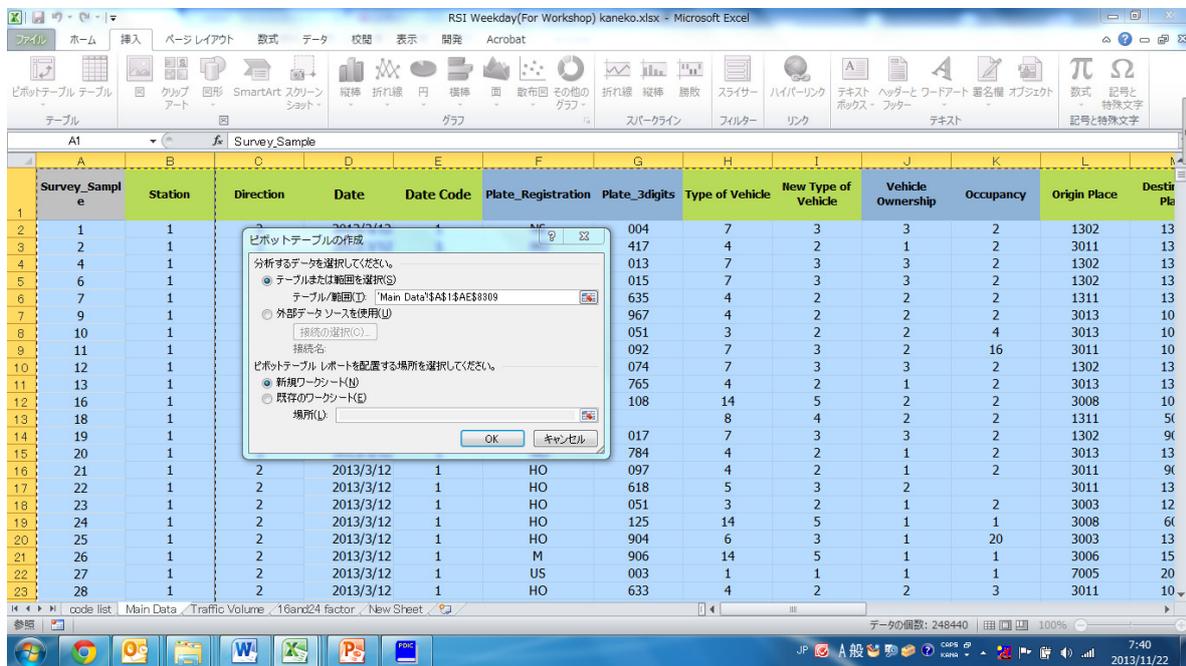
| Survey_Sample | Station | Code2 | New Type of Vehicle | O TAZ161 | D TAZ161 | Sample Rate | Daily factor | AADT factor | Twodays Factor | EXPANSION Factor |
|---------------|---------|-------|---------------------|----------|----------|-------------|--------------|-------------|----------------|------------------|
| 1             | 1       | 1213  | 3                   | 107      | 113      | 0.956521739 | 1.0137       | 1.0070      | 0.5            |                  |
| 2             | 2       | 1212  | 2                   | 158      | 113      | 1.55        | 1.0154       | 1.0035      | 0.5            | =AA2*AB2*AC2*AD2 |
| 3             | 4       | 1213  | 3                   | 107      | 113      | 0.956521739 | 1.0137       | 1.0070      | 0.5            |                  |
| 4             | 6       | 1213  | 3                   | 107      | 113      | 0.956521739 | 1.0137       | 1.0070      | 0.5            |                  |
| 5             | 7       | 1212  | 2                   | 116      | 113      | 1.55        | 1.0154       | 1.0035      | 0.5            |                  |
| 6             | 9       | 1212  | 2                   | 158      | 77       | 1.55        | 1.0154       | 1.0035      | 0.5            |                  |
| 7             | 10      | 1212  | 2                   | 158      | 77       | 1.55        | 1.0505       | 1.0128      | 0.5            |                  |
| 8             | 11      | 1213  | 3                   | 158      | 77       | 0.956521739 | 1.0137       | 1.0070      | 0.5            |                  |
| 9             | 12      | 1213  | 3                   | 107      | 113      | 0.956521739 | 1.0137       | 1.0070      | 0.5            |                  |
| 10            | 13      | 1212  | 2                   | 158      | 113      | 1.55        | 1.0154       | 1.0035      | 0.5            |                  |
| 11            | 16      | 1215  | 5                   | 158      | 77       | 1.166666667 | 1.0000       | 1.0000      | 0.5            |                  |
| 12            | 18      | 1214  | 4                   | 116      | 39       | 1           | 1.0679       | 1.0044      | 0.5            |                  |
| 13            | 19      | 1213  | 3                   | 107      | 70       | 0.956521739 | 1.0137       | 1.0070      | 0.5            |                  |
| 14            | 20      | 1212  | 2                   | 158      | 113      | 1.55        | 1.0154       | 1.0035      | 0.5            |                  |
| 15            | 21      | 1212  | 2                   | 158      | 70       | 1.55        | 1.0154       | 1.0035      | 0.5            |                  |
| 16            | 22      | 1213  | 3                   | 158      | 113      | 0.956521739 | 1.0315       | 1.0041      | 0.5            |                  |
| 17            | 23      | 1212  | 2                   | 158      | 95       | 1.55        | 1.0505       | 1.0128      | 0.5            |                  |
| 18            | 24      | 1215  | 5                   | 158      | 46       | 1.166666667 | 1.0000       | 1.0000      | 0.5            |                  |
| 19            | 25      | 1213  | 3                   | 158      | 113      | 0.956521739 | 0.9650       | 1.0006      | 0.5            |                  |
| 20            | 26      | 1215  | 5                   | 159      | 130      | 1.166666667 | 1.0000       | 1.0000      | 0.5            |                  |
| 21            | 27      | 1211  | 1                   | 161      | 154      | 1.384615385 | 0.9962       | 1.0127      | 0.5            |                  |
| 22            | 28      | 1212  | 2                   | 158      | 77       | 1.55        | 1.0154       | 1.0035      | 0.5            |                  |

7) Elaborar Tabla inicial OD por estación por tipo de vehículo (5) como se muestra en el formato a continuación.

| Clasificación |     | 1 |   | 2  |  |  | 3 |  |  |
|---------------|-----|---|---|----|--|--|---|--|--|
| Lugar         |     | 1 | — | 36 |  |  |   |  |  |
| O             | D   |   |   |    |  |  |   |  |  |
| 1             | 1   |   |   |    |  |  |   |  |  |
| 1             |     |   |   |    |  |  |   |  |  |
| 1             | 158 |   |   |    |  |  |   |  |  |
| 158           | 158 |   |   |    |  |  |   |  |  |

8) Usando la Tabla Dinámica

Seleccionar todos los datos de la Hoja Principal de Datos y seleccionar Tabla Dinámica, luego “OK”.



Consultar la siguiente figura

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ピボットテーブル ツール

ピボットテーブル名: アクティブなフィールド: 合計 / EXPANSION Factor

ピボットテーブル: アクティブなフィールド: 合計 / EXPANSION Factor

フィールド リスト

レポート フィールド: 行ラベル: 合計 / EXP. 値: 合計 / EXP.

| 行ラベル | 合計 / EXPANSION Factor |
|------|-----------------------|
| 1    | 154                   |
| 2    | 160                   |
| 3    | 154                   |
| 4    | 159                   |
| 5    | 67                    |
| 6    | 158                   |
| 7    | 160                   |
| 8    | 158                   |
| 9    | 159                   |
| 10   | 161                   |
| 11   | 107                   |
| 12   | 158                   |
| 13   | 159                   |
| 14   | 159                   |
| 15   | 71                    |
| 16   | 158                   |
| 17   | 160                   |
| 18   | 161                   |
| 19   | 67                    |
| 20   | 68                    |
| 21   | 70                    |
| 22   | 71                    |
| 23   | 113                   |
| 24   | 154                   |
| 25   | 157                   |
| 26   | 158                   |
| 27   | 159                   |
| 28   | 161                   |
| 29   | 157                   |
| 30   | 26                    |
| 31   | 67                    |

合計 / EXPANSION Factor  
 総: 値なし  
 行: 1 - 154  
 列: 1 - 5

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ピボットテーブル ツール

MS Pゴシック 11

ピボットテーブル名: Select Data

ピボットテーブル: Select Data

フィールド リスト

レポート フィールド: 行ラベル: Select Data 値: 合計 / EXP.

| 行ラベル | 合計 / EXPANSION Factor |
|------|-----------------------|
| 1    | 154                   |
| 2    | 160                   |
| 3    | 154                   |
| 4    | 159                   |
| 5    | 67                    |
| 6    | 158                   |
| 7    | 160                   |
| 8    | 158                   |
| 9    | 159                   |
| 10   | 161                   |
| 11   | 107                   |
| 12   | 158                   |
| 13   | 159                   |
| 14   | 159                   |
| 15   | 71                    |
| 16   | 158                   |
| 17   | 160                   |
| 18   | 161                   |
| 19   | 67                    |
| 20   | 68                    |
| 21   | 70                    |
| 22   | 71                    |
| 23   | 113                   |
| 24   | 154                   |
| 25   | 157                   |
| 26   | 158                   |
| 27   | 159                   |
| 28   | 161                   |
| 29   | 157                   |
| 30   | 26                    |
| 31   | 67                    |

合計 / EXPANSION Factor  
 総: 値なし  
 行: 13 - 107  
 列: 1 - 4

9) Seleccionar Datos Maximos de la estaci3n 1 a la 6 en cada Tipo de Vehculo por Pares de OD.

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Formula Bar: =MAX(OD table!D6:J6)

| Row | A | B | C        | D        | E   | F         | G         | H         | I | J | K | L | M | N | O | P | Q | R | S | T | U | V |  |
|-----|---|---|----------|----------|-----|-----------|-----------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| 1   |   |   |          |          |     |           |           |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 2   |   |   |          |          |     |           |           |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 3   |   |   |          |          |     |           |           |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 4   |   |   |          |          |     |           |           |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 5   |   |   | O TAZ161 | D TAZ161 | 1   | 2         |           |           |   | 3 | 4 | 5 |   |   |   |   |   |   |   |   |   |   |  |
| 6   |   |   |          |          | 154 | 0         | 0         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 7   |   |   |          |          | 160 | 0         | 0         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 8   |   |   |          |          | 154 | 0         | 0         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 9   |   |   |          |          | 159 | 0         | 0         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 10  |   |   |          |          | 67  | 0         | 0         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 11  |   |   |          |          | 158 | 0         | 0.9182432 |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 12  |   |   |          |          | 160 | 0         | 0.7278312 |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 13  |   |   |          |          | 158 | 0         | 0         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 14  |   |   |          |          | 159 | 0         | 0         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 15  |   |   |          |          | 160 | 0         | 0         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 16  |   |   |          |          | 161 | 0         | 0         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 17  |   |   |          |          | 107 | 0         | 0         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 18  |   |   |          |          | 158 | 0         | 0         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 19  |   |   |          |          | 159 | 0         | 0         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 20  |   |   |          |          | 71  | 0         | 0.8244677 |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 21  |   |   |          |          | 158 | 0         | 0         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 22  |   |   |          |          | 159 | 0         | 0         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 23  |   |   |          |          | 160 | 0         | 0.8244677 |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 24  |   |   |          |          | 16  | 26        | 0         | 3.8111975 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 25  |   |   |          |          | 41  | 0         | 0         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 26  |   |   |          |          | 67  | 0         | 0.8244677 |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 27  |   |   |          |          | 69  | 0         | 0.7899002 |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 28  |   |   |          |          | 70  | 0         | 0.7879065 |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 29  |   |   |          |          | 71  | 0         | 0         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 30  |   |   |          |          | 113 | 0         | 2.4428356 |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 31  |   |   |          |          | 154 | 8.6350224 | 1.1026219 |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 32  |   |   |          |          | 157 | 0         | 26.04461  |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 33  |   |   |          |          | 158 | 0         | 7.9570252 |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 34  |   |   |          |          | 159 | 0         | 0         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

RSI Weekday(For Workshop) kaneko.xlsx - Microsoft Excel

Formula Bar: =f6

| Row | A | B | C        | D        | E   | F         | G         | H         | I | J | K | L | M | N | O | P | Q | R | S | T | U | V |  |
|-----|---|---|----------|----------|-----|-----------|-----------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| 1   |   |   |          |          |     |           |           |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 2   |   |   |          |          |     |           |           |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 3   |   |   |          |          |     |           |           |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 4   |   |   |          |          |     |           |           |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 5   |   |   | O TAZ161 | D TAZ161 | 1   | 2         |           |           |   | 3 | 4 | 5 |   |   |   |   |   |   |   |   |   |   |  |
| 6   |   |   |          |          | 154 | 0         | 0         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 7   |   |   |          |          | 160 | 0         | 0         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 8   |   |   |          |          | 154 | 0         | 0         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 9   |   |   |          |          | 159 | 0         | 0         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 10  |   |   |          |          | 67  | 0         | 0         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 11  |   |   |          |          | 158 | 0         | 0.9182432 |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 12  |   |   |          |          | 160 | 0         | 0.7278312 |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 13  |   |   |          |          | 158 | 0         | 0         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 14  |   |   |          |          | 159 | 0         | 0         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 15  |   |   |          |          | 160 | 0         | 0         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 16  |   |   |          |          | 161 | 0         | 0         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 17  |   |   |          |          | 107 | 0         | 0         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 18  |   |   |          |          | 158 | 0         | 0         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 19  |   |   |          |          | 159 | 0         | 0         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 20  |   |   |          |          | 71  | 0         | 0.8244677 |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 21  |   |   |          |          | 158 | 0         | 0         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 22  |   |   |          |          | 159 | 0         | 0         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 23  |   |   |          |          | 160 | 0         | 0.8244677 |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 24  |   |   |          |          | 16  | 26        | 0         | 3.8111975 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 25  |   |   |          |          | 41  | 0         | 0         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 26  |   |   |          |          | 67  | 0         | 0.8244677 |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 27  |   |   |          |          | 69  | 0         | 0.7899002 |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 28  |   |   |          |          | 70  | 0         | 0.7879065 |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 29  |   |   |          |          | 71  | 0         | 0         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 30  |   |   |          |          | 113 | 0         | 2.4428356 |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 31  |   |   |          |          | 154 | 8.6350224 | 1.1026219 |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 32  |   |   |          |          | 157 | 0         | 26.04461  |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 33  |   |   |          |          | 158 | 0         | 7.9570252 |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 34  |   |   |          |          | 159 | 0         | 0         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

# Resumir Tabla OD Inicial

The screenshot shows an Excel spreadsheet with the following data:

|    | A | B        | C        | D          | E         | F         | G           | H         | I         | J | K | L | M | N | O | P | Q | R | S | T | U | V |  |
|----|---|----------|----------|------------|-----------|-----------|-------------|-----------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| 1  |   |          |          |            |           |           |             |           |           |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 2  |   |          |          |            |           |           |             |           |           |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 3  |   |          |          |            |           |           |             |           |           |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 4  |   |          |          |            |           |           |             |           |           |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 5  |   | O TAZ161 | D TAZ161 | Motorcycle | Car       | Bus       | Small Truck | Laree     | Truck     |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 6  |   | 1        | 154      | 0          | 0         | 0         | 0           | 0         | 2.1962335 |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 7  |   | 1        | 160      | 0          | 0         | 0         | 0           | 0         | 0.5579399 |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 8  |   | 2        | 154      | 0          | 0         | 0         | 0.7893246   | 0         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 9  |   | 2        | 159      | 0          | 0         | 0         | 0           | 0         | 1.1904762 |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 10 |   | 4        | 67       | 0          | 0         | 0         | 0.8179843   | 0         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 11 |   | 7        | 158      | 0          | 0.9182432 | 0         | 0           | 0         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 12 |   | 7        | 160      | 0          | 0.7278312 | 0         | 0           | 0         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 13 |   | 10       | 158      | 0          | 0         | 0         | 0           | 1.498948  | 0         |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 14 |   | 10       | 159      | 0          | 0         | 0         | 0           | 0         | 1.1904762 |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 15 |   | 10       | 160      | 0          | 0         | 0         | 0           | 0         | 0.5638792 |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 16 |   | 10       | 161      | 0          | 0         | 0         | 0           | 0         | 0.5638792 |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 17 |   | 13       | 107      | 0          | 0         | 0         | 0           | 0         | 1.1904762 |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 18 |   | 13       | 158      | 0          | 0         | 0         | 0           | 0         | 5.438752  |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 19 |   | 13       | 159      | 0          | 0         | 0         | 0           | 0         | 6.8446926 |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 20 |   | 15       | 71       | 0          | 0.8244677 | 0         | 0           | 0         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 21 |   | 15       | 158      | 0          | 0         | 0         | 0           | 0         | 1.4059406 |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 22 |   | 15       | 159      | 0          | 0         | 0         | 0           | 0         | 0.5507614 |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 23 |   | 15       | 160      | 0          | 0.8244677 | 0         | 0           | 0         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 24 |   | 16       | 26       | 0          | 3.6111875 | 0         | 0           | 0         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 25 |   | 16       | 41       | 0          | 0         | 0         | 0           | 2.4214048 | 0         |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 26 |   | 16       | 67       | 0          | 0.8244677 | 0         | 0           | 0         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 27 |   | 16       | 69       | 0          | 0.7939002 | 0         | 0           | 0         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 28 |   | 16       | 70       | 0          | 0.7879065 | 0         | 0           | 0         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 29 |   | 16       | 71       | 0          | 0         | 0.7436629 | 0.8179843   | 0         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 30 |   | 16       | 113      | 0          | 2.4428356 | 0         | 0.8017103   | 0         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 31 |   | 16       | 154      | 0.6350224  | 1.1028219 | 2.745263  | 0.6712236   | 5.4817695 |           |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 32 |   | 16       | 157      | 0          | 26.04461  | 0         | 0.5718039   | 1.1144407 |           |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 33 |   | 16       | 158      | 0          | 7.9570252 | 0         | 0.8891971   | 2.8183962 |           |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 34 |   | 16       | 159      | 0          | 0         | 0         | 0.9468892   | 2.8389381 |           |   |   |   |   |   |   |   |   |   |   |   |   |   |  |