**Base de Datos I**

Grupo 5 – Integrantes:

LU: 1072204 – Apellido y nombre: Mingo Suarez, Tomas Esteban

LU: 1022935 – Apellido y nombre: Miño, Lucas Nicolas

LU: 1065614 – Apellido y nombre: Gueicha Muñoz, Esteban Ezequiel

LU: 1014180 – Apellido y nombre: Guglielmone, Juan Ignacio

1-

(((((((((Platos where Descripcion = ‘café’) {Nroplato}) rename nroplato as idplato) join ItemsFactura) {Nrofac}) join Factura) {idmesa}) rename idmesa as nromesa) join Mesas){}

1) Restriccion 2) Proyeccion

|  |  |  |
| --- | --- | --- |
| Nroplato | Descripcion | Precio |
| 101 | Cafe | 6.50 |

|  |
| --- |
| Nroplato |
| 101 |

3) Renombrar 4) Reunir

|  |
| --- |
| Idplato |
| 101 |

|  |  |  |  |
| --- | --- | --- | --- |
| Nrofac | Idplato | Cant | Precio |
| 3 | 101 | 2 | 6.50 |
| 5 | 101 | 2 | 6.50 |
| 7 | 101 | 3 | 6.50 |
| 8 | 101 | 8 | 6.50 |

|  |
| --- |
| Nrofac |
| 3 |
| 5 |
| 7 |
| 8 |

5) Proyeccion 6) Reunir

|  |  |  |  |
| --- | --- | --- | --- |
| Nrofac | Idmesa | idMozo | nroPer |
| 3 | 4 | 3 | 2 |
| 5 | 7 | 1 | 1 |
| 7 | 9 | 5 | 4 |
| 8 | 2 | 3 | 3 |

7) Proyeccion 8) Renombrar

|  |
| --- |
| Idmesa |
| 4 |
| 7 |
| 9 |
| 2 |

|  |
| --- |
| nromesa |
| 4 |
| 7 |
| 9 |
| 2 |

|  |  |
| --- | --- |
| Idmesa | Descripcion |
| 4 | Salon |
| 7 | Rinconera |
| 9 | Salon |
| 2 | Reservado |

9) Reunir 10) Proyeccion

|  |  |
| --- | --- |
| Idmesa | Descripcion |
| 4 | Salon |
| 7 | Rinconera |
| 9 | Salon |
| 2 | Reservado |

2 –

((((((Mesas RESTRICCION descripción = ‘Rinconera’) RENOMBRAR nroMesa COMO idMesa) PROYECTAR {idMesa}) REUNION Factura) PROYECTAR {idMozo}) RENOMBRAR idMozo COMO nroMozo) REUNION Mozos

|  |  |
| --- | --- |
| 1 – RESTRICCION | |
| nroMesa | Descripcion |
| 1 | Rinconera |
| 7 | Rinconera |

|  |  |
| --- | --- |
| 2 – RENOMBRAR | |
| idMesa | Descripcion |
| 1 | Rinconera |
| 7 | Rinconera |

|  |  |  |  |
| --- | --- | --- | --- |
| 4 - REUNION | | | |
| nroFac | IdMesa | IdMozo | nroPer |
| 1 | 1 | 3 | 5 |
| 5 | 7 | 1 | 1 |

|  |
| --- |
| 3 – PROYECTAR |
| idMesa |
| 1 |
| 7 |

|  |
| --- |
| 6 – RENOMBRAR |
| nroMozo |
| 3 |
| 1 |

|  |
| --- |
| 5 – PROYECTAR |
| idMozo |
| 3 |
| 1 |

|  |  |
| --- | --- |
| 7 – REUNION | |
| nroMozo | Descripcion |
| 3 | Marcela |
| 1 | Juan |

3-

(((((((((Platos where Descripcion = ‘medialunas’) {Nroplato}) rename nroplato as idplato) join ItemsFactura) {Nrofac}) join factura) (((Mesas where description = ’rinconera’) {Nromesa}) rename nromesa as idmesa) join factura) {idmesa}) rename idmozo as nromozo) join Mozos) {}

1) Restriccion

|  |  |  |
| --- | --- | --- |
| Nroplato | Descripcion | Precio |
| 105 | Medialunas | 2.50 |

2) Proyeccion

|  |
| --- |
| Nroplato |
| 105 |

3) Renombrar

|  |
| --- |
| Idplato |
| 105 |

4) Reunir

|  |  |  |  |
| --- | --- | --- | --- |
| Nrofac | Idplato | Cant | Precio |
| 1 | 105 | 6 | 2.50 |
| 3 | 105 | 2 | 2.50 |
| 2 | 105 | 3 | 2.50 |
| 7 | 105 | 8 | 2.50 |
| 8 | 105 | 9 | 2.50 |

5) Proyeccion 6) Reunir

|  |
| --- |
| Nrofac |
| 1 |
| 3 |
| 2 |
| 7 |
| 8 |

|  |  |  |  |
| --- | --- | --- | --- |
| Nrofac | Idmesa | Idmozo | nroper |
| 1 | 1 | 3 | 5 |
| 3 | 4 | 3 | 2 |
| 2 | 3 | 4 | 1 |
| 7 | 9 | 5 | 4 |
| 8 | 2 | 3 | 3 |

7) Restriccion 8) Proyeccion

|  |  |
| --- | --- |
| Nromesa | Descripcion |
| 1 | Rinconera |

|  |
| --- |
| Nromesa |
| 1 |

9) Renombrar 10) Reunir

|  |
| --- |
| idmesa |
| 1 |

|  |  |  |  |
| --- | --- | --- | --- |
| Nrofac | Idmesa | Idmozo | nroper |
| 1 | 1 | 3 | 5 |

11) Proyeccion 12) Renombrar

|  |
| --- |
| Idmozo |
| 3 |

|  |
| --- |
| nromozo |
| 3 |

13) Reunir 14) Proyeccion

|  |  |
| --- | --- |
| nromozo | Descripcion |
| 3 | Marcela |

|  |  |
| --- | --- |
| nromozo | Descripcion |
| 3 | Marcela |

4-

(((((Platos where Descripcion = ‘medialuna’) {Nroplato}) rename Nroplato as Idplato) join ItemsFactura) extend add sum (cant) as total){}

1) Restriccion 2) Proyeccion

|  |  |  |
| --- | --- | --- |
| Nroplato | Descripcion | Precio |
| 105 | Medialunas | 2.50 |

|  |
| --- |
| Nroplato |
| 105 |

3) Renombrar 4) Reunir

|  |
| --- |
| Idplato |
| 105 |

|  |  |  |  |
| --- | --- | --- | --- |
| Nrofac | Idplato | Cant | Precio |
| 1 | 105 | 6 | 2.50 |
| 3 | 105 | 2 | 2.50 |
| 2 | 105 | 3 | 2.50 |
| 7 | 105 | 8 | 2.50 |
| 8 | 105 | 9 | 2.50 |

5) Extender 6) Proyeccion

|  |
| --- |
| Total |
| 28 |

|  |
| --- |
| Total |
| 28 |

5 –

((SUMARIZAR ItemFactura POR idPlato AGREGAR SUMAR (cant) COMO cantTotal) RESTRICCION cantTotal > 6) PROYECTAR {idPlato}

|  |  |
| --- | --- |
| 1 - SUMARIZAR | |
| idPlato | cantTotal |
| 101 | 6 |
| 102 | 11 |
| 103 | 1 |
| 104 | 3 |
| 105 | 28 |
| 106 | 1 |
| 107 | 2 |
| 108 | 3 |

|  |  |
| --- | --- |
| 2 - RESTRICCION | |
| idPlato | cantTotal |
| 102 | 11 |
| 105 | 28 |

|  |
| --- |
| 3 - PROYECTAR |
| idPlato |
| 102 |
| 105 |

6 –

(SUMARIZAR ( (SUMARIZAR ItemsFacturas POR nroFac AGREGAR SUMA(Precio) COMO total) REUNION Factura) POR idMesa AGREGAR SUMA (total) COMO totalMesa ) REUNION (Mesas RENOMBRAR nroMesa COMO idMesa)

|  |  |
| --- | --- |
| 1 - SUMARIZAR | |
| nroFac | total |
| 1 | 9 |
| 2 | 10 |
| 3 | 24 |
| 4 | 12.5 |
| 5 | 13.5 |
| 6 | 7 |
| 7 | 24 |
| 8 | 16 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 2 - REUNION | | | | |
| nroFac | IdMesa | IdMozo | nroPer | total |
| 1 | 1 | 3 | 5 | 9 |
| 2 | 3 | 4 | 1 | 10 |
| 3 | 4 | 3 | 2 | 24 |
| 4 | 3 | 2 | 1 | 12.5 |
| 5 | 7 | 1 | 1 | 13.5 |
| 6 | 6 | 4 | 4 | 7 |
| 7 | 9 | 5 | 4 | 24 |
| 8 | 2 | 3 | 3 | 16 |

|  |  |
| --- | --- |
| 3 - SUMARIZAR | |
| IdMesa | totalMesa |
| 1 | 9 |
| 3 | 22.5 |
| 4 | 24 |
| 7 | 13.5 |
| 6 | 7 |
| 9 | 24 |
| 2 | 16 |

|  |  |
| --- | --- |
| 4 - RENOMBRAR | |
| idMesa | Descripcion |
| 1 | Rinconera |
| 2 | Reservado |
| 3 | Reservado |
| 4 | Salon |
| 5 | Salon |
| 6 | Salon |
| 7 | Rinconera |
| 8 | Salon |
| 9 | Salon |

|  |  |  |
| --- | --- | --- |
| 5 - REUNION | | |
| IdMesa | totalMesa | Descripcion |
| 1 | 9 | Rinconera |
| 3 | 22.5 | Reservado |
| 4 | 24 | Salon |
| 7 | 13.5 | Rinconera |
| 6 | 7 | Salon |
| 9 | 24 | Salon |
| 2 | 16 | Reservado |

7-

((((((Mesas where Descripcion = ‘Salon’) {Nromesa}) rename nromesa as idmesa) join Factura){nrofac})join ItemsFactura){nrofac, idplato} extend add count (((nrofac, idplato minus( Platos where descripción = ‘torta’){Nroplato})rename nroplato as idplato) as totalfac)

|  |  |
| --- | --- |
| Nromesa | Descripcion |
| 4 | Salon |
| 5 | Salon |
| 6 | Salon |
| 8 | Salon |
| 9 | Salon |

1) Restriccion 2) Proyeccion

|  |
| --- |
| Nromesa |
| 4 |
| 5 |
| 6 |
| 8 |
| 9 |

3) Renombrar 4) Reunir

|  |
| --- |
| idmesa |
| 4 |
| 5 |
| 6 |
| 8 |
| 9 |

|  |  |  |  |
| --- | --- | --- | --- |
| Nrofac | Idmesa | Idmozo | nroper |
| 3 | 4 | 3 | 2 |
| 6 | 6 | 4 | 4 |
| 7 | 9 | 5 | 4 |

5) Proyeccion 6) Reunir

|  |
| --- |
| Nrofac |
| 3 |
| 6 |
| 7 |

|  |  |  |  |
| --- | --- | --- | --- |
| Nrofac | idplato | cant | precio |
| 3 | 101 | 2 | 6.50 |
| 3 | 108 | 1 | 9.00 |
| 6 | 102 | 4 | 7.00 |
| 7 | 101 | 2 | 6.50 |
| 7 | 105 | 8 | 2.50 |
| 7 | 104 | 2 | 6.00 |
| 7 | 108 | 2 | 9.00 |

|  |  |
| --- | --- |
| Nrofac | idplato |
| 3 | 101 |
| 3 | 108 |
| 6 | 102 |
| 7 | 101 |
| 7 | 105 |
| 7 | 104 |
| 7 | 108 |

7) Proyeccion

8) Restriccion

|  |  |  |
| --- | --- | --- |
| Nroplato | Descripcion | Precio |
| 108 | Torta | 9.00 |

|  |
| --- |
| Nroplato |
| 108 |

9) Proyeccion 10) Renombrar

|  |
| --- |
| idplato |
| 108 |

11) Diferencia 12) Extender

|  |  |
| --- | --- |
| Nrofac | idplato |
| 3 | 101 |
| 6 | 102 |
| 7 | 101 |
| 7 | 105 |
| 7 | 104 |

|  |
| --- |
| totalfac |
| 5 |

13) Proyeccion

|  |
| --- |
| totalfac |
| 5 |
|  |

8 –

((((EXTENDER ((((((Mesas RESTRICCION Descripcion=’Salon’) RENOMBRAR nroMesa COMO idMesa) PROYECTAR {idMesa}) REUNION Factura) REUNION (SUMARIZAR itemFactura POR nroFact AGREGAR SUMA(cant) COMO cantTotal)) PRODUCTO (((((Mozo RESTRICCION Descripcion=’Analia’) PROYECCION {nroMozo}) RENOMBRAR nroMozo COMO idMozo) REUNION Factura) REUNION (SUMARIZAR itemFactura POR nroFact AGREGAR SUMA(cant) COMO cantTotalAna) PROYECTAR {cantTotalAna})) AGREGAR (cantTotal - cantTotalAna) COMO dif)) RESTRICCION dif>0) REUNION (Mozo RENOMBRAR nroMozo COMO idMozo)) PROYECTAR {Descripcion}

|  |  |
| --- | --- |
| 1 – RESTRICCION | |
| nroMesa | Descripcion |
| 4 | Salon |
| 5 | Salon |
| 6 | Salon |
| 8 | Salon |
| 9 | Salon |

|  |  |
| --- | --- |
| 2 – RENOMBRAR | |
| idMesa | Descripcion |
| 4 | Salon |
| 5 | Salon |
| 6 | Salon |
| 8 | Salon |
| 9 | Salon |

|  |
| --- |
| 3 – PROYECTAR |
| idMesa |
| 4 |
| 5 |
| 6 |
| 8 |
| 9 |

|  |  |  |  |
| --- | --- | --- | --- |
| 4 - REUNION | | | |
| nroFac | IdMesa | IdMozo | nroPer |
| 3 | 4 | 3 | 2 |
| 6 | 6 | 4 | 4 |
| 7 | 9 | 5 | 4 |

|  |  |
| --- | --- |
| 5 - SUMARIZAR | |
| nroFac | cantTotal |
| 1 | 10 |
| 2 | 4 |
| 3 | 5 |
| 4 | 4 |
| 5 | 2 |
| 6 | 4 |
| 7 | 14 |
| 8 | 11 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 6 - REUNION | | | | |
| nroFac | IdMesa | IdMozo | nroPer | cantTotal |
| 3 | 4 | 3 | 2 | 5 |
| 6 | 6 | 4 | 4 | 4 |
| 7 | 9 | 5 | 4 | 14 |

|  |  |
| --- | --- |
| 7 - RESTRICCION | |
| nroMozo | Descripcion |
| 2 | Analia |

|  |
| --- |
| 8 -PROYECCION |
| nroMozo |
| 2 |

|  |
| --- |
| 9 - RENOMBRAR |
| idMozo |
| 2 |

|  |  |
| --- | --- |
| 11 - SUMARIZAR | |
| nroFac | cantTotalAna |
| 1 | 10 |
| 2 | 4 |
| 3 | 5 |
| 4 | 4 |
| 5 | 2 |
| 6 | 4 |
| 7 | 14 |
| 8 | 11 |

|  |  |  |  |
| --- | --- | --- | --- |
| 10 - REUNION | | | |
| nroFac | IdMesa | IdMozo | nroPer |
| 4 | 3 | 2 | 1 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 12 - REUNION | | | | |
| nroFac | IdMesa | IdMozo | nroPer | cantTotalAna |
| 4 | 3 | 2 | 1 | 4 |

|  |
| --- |
| 13 - PROYECCION |
| cantTotalAna |
| 4 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 14 - PRODUCTO | | | | | |
| nroFac | IdMesa | IdMozo | nroPer | cantTotal | cantTotalAna |
| 3 | 4 | 3 | 2 | 5 | 4 |
| 6 | 6 | 4 | 4 | 4 | 4 |
| 7 | 9 | 5 | 4 | 14 | 4 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 15 – EXTENDER | | | | | | |
| nroFac | IdMesa | IdMozo | nroPer | cantTotal | cantTotalAna | Dif |
| 3 | 4 | 3 | 2 | 5 | 4 | 1 |
| 6 | 6 | 4 | 4 | 4 | 4 | 0 |
| 7 | 9 | 5 | 4 | 14 | 4 | 10 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 16 – RESTRICCION | | | | | | |
| nroFac | IdMesa | IdMozo | nroPer | cantTotal | cantTotalAna | Dif |
| 3 | 4 | 3 | 2 | 5 | 4 | 1 |
| 7 | 9 | 5 | 4 | 14 | 4 | 10 |

|  |  |
| --- | --- |
| 17 - RENOMBRAR | |
| idMozo | Descripcion |
| 1 | Juan |
| 2 | Analia |
| 3 | Marcela |
| 4 | Carlos |
| 5 | Paula |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 18 – REUNION | | | | | | | |
| nroFac | IdMesa | IdMozo | nroPer | cantTotal | cantTotalAna | Dif | Descripcion |
| 3 | 4 | 3 | 2 | 5 | 4 | 1 | Marcela |
| 7 | 9 | 5 | 4 | 14 | 4 | 10 | Paula |

|  |
| --- |
| 19 – PROYECTAR |
| Descripcion |
| Marcela |
| Paula |

9 –

(SUMARIZAR ItemFactura POR idPlato AGREGAR SUMAR (cant) COMO cantTotal) REUNION (Platos RENOMBRAR nroplato COMO idPlato) PROYECTAR {idPlato,Descripcion,cantTotal}

|  |  |
| --- | --- |
| 1 - SUMARIZAR | |
| idPlato | cantTotal |
| 101 | 6 |
| 102 | 11 |
| 103 | 1 |
| 104 | 3 |
| 105 | 28 |
| 106 | 1 |
| 107 | 2 |
| 108 | 3 |

|  |  |  |
| --- | --- | --- |
| 2 - RENOMBRAR | | |
| idPlato | Descripcion | Precio |
| 101 | Café | 6.5 |
| 102 | Cortado | 7 |
| 103 | Café c/Leche | 7.5 |
| 104 | Te | 6 |
| 105 | Medialunas | 2.50 |
| 106 | Tostadas | 4.5 |
| 107 | Manteca o Dulce | 2 |
| 108 | Torta | 9 |
| 109 | Tostado | 8.5 |

|  |  |  |  |
| --- | --- | --- | --- |
| 3 - REUNION | | | |
| idPlato | Descripcion | Precio | cantTotal |
| 101 | Café | 6.5 | 6 |
| 102 | Cortado | 7 | 11 |
| 103 | Café c/Leche | 7.5 | 1 |
| 104 | Te | 6 | 3 |
| 105 | Medialunas | 2.50 | 28 |
| 106 | Tostadas | 4.5 | 1 |
| 107 | Manteca o Dulce | 2 | 2 |
| 108 | Torta | 9 | 3 |

|  |  |  |
| --- | --- | --- |
| 4 - PROYECTAR | | |
| idPlato | Descripcion | cantTotal |
| 101 | Café | 6 |
| 102 | Cortado | 11 |
| 103 | Café c/Leche | 1 |
| 104 | Te | 3 |
| 105 | Medialunas | 28 |
| 106 | Tostadas | 1 |
| 107 | Manteca o Dulce | 2 |
| 108 | Torta | 3 |

10 –

((((EXTENDER (SUMARIZAR ItemFactura POR idPlato AGREGAR SUMAR (cant) COMO cantTotal) AGREGAR MAX(cantTotal) COMO máximo) RENOMBRAR máximo COMO cantTotal) REUNION (SUMARIZAR ItemFactura POR idPlato AGREGAR SUMAR (cant) COMO cantTotal)) REUNION (Platos RENOMBRAR nroplato COMO idPlato)) PROYECTAR {idPlato,Descripcion}

|  |  |
| --- | --- |
| 1 - SUMARIZAR | |
| idPlato | cantTotal |
| 101 | 6 |
| 102 | 11 |
| 103 | 1 |
| 104 | 3 |
| 105 | 28 |
| 106 | 1 |
| 107 | 2 |
| 108 | 3 |

|  |
| --- |
| 3 - RENOMBRAR |
| cantTotal |
| 28 |

|  |
| --- |
| 2 - EXTENDER |
| maximo |
| 28 |

|  |  |
| --- | --- |
| 4 - REUNION | |
| idPlato | cantTotal |
| 105 | 28 |

|  |  |  |
| --- | --- | --- |
| 5 - RENOMBRAR | | |
| idPlato | Descripcion | Precio |
| 101 | Café | 6.5 |
| 102 | Cortado | 7 |
| 103 | Café c/Leche | 7.5 |
| 104 | Te | 6 |
| 105 | Medialunas | 2.50 |
| 106 | Tostadas | 4.5 |
| 107 | Manteca o Dulce | 2 |
| 108 | Torta | 9 |
| 109 | Tostado | 8.5 |

|  |  |  |  |
| --- | --- | --- | --- |
| 6 - REUNION | | | |
| idPlato | Descripcion | Precio | cantTotal |
| 105 | Medialunas | 2.50 | 28 |

|  |  |
| --- | --- |
| 7 - PROYECTAR | |
| idPlato | Descripcion |
| 105 | Medialunas |

13 –

14 –

(((EXTENDER (SUMARIZAR ItemsFacturas POR nroFac AGREGAR SUMA(Precio) COMO Total) AGREGAR MAX(total) COMO máximo)) RENOMBRAR máximo COMO total) REUNION (SUMARIZAR ItemsFacturas POR nroFac AGREGAR SUMA(Precio) COMO Total) PROYECTAR {nroFac}

|  |  |
| --- | --- |
| 1 - SUMARIZAR | |
| nroFac | total |
| 1 | 9 |
| 2 | 10 |
| 3 | 24 |
| 4 | 12.5 |
| 5 | 13.5 |
| 6 | 7 |
| 7 | 24 |
| 8 | 16 |

|  |
| --- |
| 3 - RENOMBRAR |
| total |
| 24 |

|  |
| --- |
| 5 - PROYECTAR |
| nroFac |
| 3 |
| 7 |

|  |
| --- |
| 2 - EXTENDER |
| máximo |
| 24 |

|  |  |
| --- | --- |
| 4 - REUNION | |
| nroFac | total |
| 3 | 24 |
| 7 | 24 |

15 –

((EXTENDER (SUMARIZAR itemFactura POR nroFact AGREGAR COUNT(nroFact) COMO cantItemFac) AGREGAR MAX(cantItemFac) COMO máximo) RENOMBRAR máximo COMO cantItemFac) REUNION (SUMARIZAR itemFactura POR nroFact AGREGAR COUNT(nroFact) COMO cantItemFac) PROYECTAR {nroFac}

|  |  |
| --- | --- |
| 1 - SUMARIZAR | |
| nroFac | cantItemFac |
| 1 | 2 |
| 2 | 2 |
| 3 | 3 |
| 4 | 4 |
| 5 | 2 |
| 6 | 1 |
| 7 | 4 |
| 8 | 2 |

|  |
| --- |
| 2 – EXTENDER |
| maximo |
| 4 |

|  |
| --- |
| 3 – RENOMBRAR |
| cantItemFac |
| 4 |

|  |  |
| --- | --- |
| 4 - REUNION | |
| nroFac | cantItemFac |
| 4 | 4 |
| 7 | 4 |

|  |
| --- |
| 5 – PROYECTAR |
| nroFac |
| 4 |
| 7 |

16 –

((SUMARIZAR ItemFactura POR idPlato AGREGAR SUMAR (cant) COMO cantTotal) RESTRICCION cantTotal >3) PROYECTAR {idPlato}

|  |  |
| --- | --- |
| 1 - SUMARIZAR | |
| idPlato | cantTotal |
| 101 | 6 |
| 102 | 11 |
| 103 | 1 |
| 104 | 3 |
| 105 | 28 |
| 106 | 1 |
| 107 | 2 |
| 108 | 3 |

|  |  |
| --- | --- |
| 2 - RESTRICCION | |
| idPlato | cantTotal |
| 101 | 6 |
| 102 | 11 |
| 105 | 28 |

|  |
| --- |
| 3 - PROYECTAR |
| idPlato |
| 101 |
| 102 |
| 105 |

17 –

((SUMARIZAR ItemFactura POR idPlato AGREGAR SUMAR (cant) COMO cantTotal) RESTRICCION cantTotal >10) PROYECTAR {idPlato}

|  |  |
| --- | --- |
| 1 - SUMARIZAR | |
| idPlato | cantTotal |
| 101 | 6 |
| 102 | 11 |
| 103 | 1 |
| 104 | 3 |
| 105 | 28 |
| 106 | 1 |
| 107 | 2 |
| 108 | 3 |

|  |  |
| --- | --- |
| 2 - RESTRICCION | |
| idPlato | cantTotal |
| 102 | 11 |
| 105 | 28 |

|  |
| --- |
| 3 - PROYECTAR |
| idPlato |
| 102 |
| 105 |

18 –

(SUMARIZAR Factura POR idMesa AGREGAR COUNT(idMesa) COMO cantMesa) PROYECTAR {idMesa} DIFERENCIA ((Mesas PROYECTAR {nroMesa}) RENOMBRAR nroMesa COMO idMesa)

|  |  |
| --- | --- |
| 1 – SUMARIZAR | |
| idMesa | cantMesa |
| 1 | 1 |
| 3 | 2 |
| 4 | 1 |
| 7 | 1 |
| 6 | 1 |
| 9 | 1 |
| 2 | 1 |

|  |
| --- |
| 2 – PROYECTAR |
| idMesa |
| 1 |
| 3 |
| 4 |
| 7 |
| 6 |
| 9 |
| 2 |

|  |
| --- |
| 3 – PROYECTAR |
| nroMesa |
| 1 |
| 2 |
| 3 |
| 4 |
| 5 |
| 6 |
| 7 |
| 8 |
| 9 |

|  |
| --- |
| 4 – RENOMBRAR |
| idMesa |
| 1 |
| 2 |
| 3 |
| 4 |
| 5 |
| 6 |
| 7 |
| 8 |
| 9 |

|  |
| --- |
| 5 – DIFERENCIA |
| idMesa |
| 5 |
| 8 |

19 –

EXTENDER (SUMARIZAR ItemsFacturas POR nroFac AGREGAR SUMA(Precio) COMO Total) AGREGAR AVG(total) COMO promedioFac

|  |  |
| --- | --- |
| 1 - SUMARIZAR | |
| nroFac | total |
| 1 | 9 |
| 2 | 10 |
| 3 | 24 |
| 4 | 12.5 |
| 5 | 13.5 |
| 6 | 7 |
| 7 | 24 |
| 8 | 16 |

|  |
| --- |
| 2 – EXTENDER |
| promedioFac |
| 14.5 |

20 –

EXTENDER (SUMARIZAR itemFactura POR nroFact AGREGAR SUMA(cant) COMO cantTotal) AGREGAR AVG(cantTotal) COMO promedioCant

|  |  |
| --- | --- |
| 1 - SUMARIZAR | |
| nroFac | cantTotal |
| 1 | 10 |
| 2 | 4 |
| 3 | 5 |
| 4 | 4 |
| 5 | 2 |
| 6 | 4 |
| 7 | 14 |
| 8 | 11 |

|  |
| --- |
| 2 - EXTENDER |
| promedioCant |
| 6.75 |

21 –

((EXTENDER (EXTENDER (SUMARIZAR ItemsFacturas POR nroFac AGREGAR SUMA(Precio) COMO Total) AGREGAR AVG(total) COMO promedioFac) PRODUCTO (SUMARIZAR ItemsFacturas POR nroFac AGREGAR SUMA(Precio) COMO Total) AGREGAR (total - promedioFac) COMO difTotal) RESTRICCION difTotal > 0) PROYECTAR {nroFac}

|  |  |
| --- | --- |
| 1 - SUMARIZAR | |
| nroFac | total |
| 1 | 9 |
| 2 | 10 |
| 3 | 24 |
| 4 | 12.5 |
| 5 | 13.5 |
| 6 | 7 |
| 7 | 24 |
| 8 | 16 |

|  |
| --- |
| 2 – EXTENDER |
| promedioFac |
| 14.5 |

|  |  |  |
| --- | --- | --- |
| 3 – PRODUCTO | | |
| nroFac | total | promedioFac |
| 1 | 9 | 14.5 |
| 2 | 10 | 14.5 |
| 3 | 24 | 14.5 |
| 4 | 12.5 | 14.5 |
| 5 | 13.5 | 14.5 |
| 6 | 7 | 14.5 |
| 7 | 24 | 14.5 |
| 8 | 16 | 14.5 |

|  |  |  |  |
| --- | --- | --- | --- |
| 4 – EXTENDER | | | |
| nroFac | total | promedioFac | difTotal |
| 1 | 9 | 14.5 | -5.5 |
| 2 | 10 | 14.5 | -4.5 |
| 3 | 24 | 14.5 | 9.5 |
| 4 | 12.5 | 14.5 | -2 |
| 5 | 13.5 | 14.5 | -1 |
| 6 | 7 | 14.5 | -7.5 |
| 7 | 24 | 14.5 | 9.5 |
| 8 | 16 | 14.5 | 1.5 |

|  |  |  |  |
| --- | --- | --- | --- |
| 5 – RESTRICCION | | | |
| nroFac | total | promedioFac | difTotal |
| 3 | 24 | 14.5 | 9.5 |
| 7 | 24 | 14.5 | 9.5 |
| 8 | 16 | 14.5 | 1.5 |

|  |
| --- |
| 6 – PROYECTAR |
| nroFac |
| 3 |
| 7 |
| 8 |

22 –

((EXTENDER Plato AGREGAR MAX(Precio) COMO masCaro) RENOMBRAR masCaro COMO Precio) REUNION Platos

|  |
| --- |
| 1 - EXTENDER |
| masCaro |
| 9 |

|  |
| --- |
| 2 - RENOMBRAR |
| Precio |
| 9 |

|  |  |  |
| --- | --- | --- |
| 3 – RENOMBRAR | | |
| idPlato | Descripcion | Precio |
| 108 | Torta | 9 |

23 –

(((EXTENDER (SUMARIZAR Factura POR idMesa AGREGAR COUNT(idMesa) COMO cantFacMesa) AGREGAR MAX(cantFacMesa) COMO máximo) RENOMBRAR máximo COMO cantFacMesa) REUNION (SUMARIZAR Factura POR idMesa AGREGAR COUNT(idMesa) COMO cantFacMesa)) PROYECTAR {idMesa}

|  |  |
| --- | --- |
| 1 – SUMARIZAR | |
| idMesa | cantFacMesa |
| 1 | 1 |
| 3 | 2 |
| 4 | 1 |
| 7 | 1 |
| 6 | 1 |
| 9 | 1 |
| 2 | 1 |

|  |
| --- |
| 2 – EXTENDER |
| maximo |
| 2 |

|  |
| --- |
| 3 – RENOMBRAR |
| cantFacMesa |
| 2 |

|  |  |
| --- | --- |
| 4 – REUNION | |
| idMesa | cantFacMesa |
| 3 | 2 |

|  |
| --- |
| 5 – PROYECTAR |
| idMesa |
| 3 |

24 –

((EXTENDER ((EXTENDER ((((Mozos RESTRICCION descripción = ‘Paula’) PROYECTAR {nroMozo}) RENOMBRAR nroMozo COMO idMozo) REUNION Factura) AGREGAR COUNT(idMozo) COMO cantPaula) PRODUCTO (SUMARIZAR Factura POR idMozo AGREGAR COUNT(idMozo) COMO cantMozo)) AGREGAR (cantMozo - cantPaula) COMO difMozo) RESTRICCION difMozo>0) PROYECTAR {idMozo} REUNIO (Mozos RENOMBRAR nroMozo COMO idMozo)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | 1 – RENOMBRAR | | | nroMozo | Descripcion | | 5 | Paula | | |  | | --- | | 2 – PROYECTAR | | nroMozo | | 5 | | |  | | --- | | 3 – PROYECTAR | | idMozo | | 5 | |
| |  |  |  |  | | --- | --- | --- | --- | | 4 - REUNION | | | | | nroFac | IdMesa | IdMozo | nroPer | | 7 | 9 | 5 | 4 | | |  | | --- | | 5 – EXTENDER | | cantPaula | | 1 | | |  |  | | --- | --- | | 6 – SUMARIZAR | | | idMozo | CantMozo | | 3 | 3 | | 4 | 2 | | 2 | 1 | | 1 | 1 | | 5 | 1 | |
| |  |  |  | | --- | --- | --- | | 7 – PRODUCTO | | | | idMozo | CantMozo | cantPaula | | 3 | 3 | 1 | | 4 | 2 | 1 | | 2 | 1 | 1 | | 1 | 1 | 1 | | 5 | 1 | 1 | | |  |  |  |  | | --- | --- | --- | --- | | 8 – EXTENDER | | | | | idMozo | CantMozo | cantPaula | difMozo | | 3 | 3 | 1 | 2 | | 4 | 2 | 1 | 1 | | 2 | 1 | 1 | 0 | | 1 | 1 | 1 | 0 | | 5 | 1 | 1 | 0 | | |  | | --- | | 9 - 10 – RESTRICCION Y PROYECTAR | | idMozo | | 3 | | 4 | |
| |  |  | | --- | --- | | 11 – RENOMBRAR | | | idMozo | Descripcion | | 1 | Juan | | 2 | Analia | | 3 | Marcela | | 4 | Carlos | | 5 | Paula | | |  |  | | --- | --- | | 12 – REUNION | | | idMozo | Descripcion | | 3 | Marcela | | 4 | Carlos | | |  | | --- | | 13 – PROYECTAR | | Descripcion | | Marcela | | Carlos | |

25 –

((((Mesas RESTRICCION descripción = ‘Salon’) RENOMBRAR nroMesa COMO idMesa) REUNION Factura) PROYECTAR {idMozo}) REUNION (Mozos RENOMBRAR nroMozo COMO idMozo)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | 1 – RESTRICCION | | | nroMesa | Descripcion | | 4 | Salon | | 5 | Salon | | 6 | Salon | | 8 | Salon | | 9 | Salon | | |  |  | | --- | --- | | 2 – RENOMBRAR | | | idMesa | Descripcion | | 4 | Salon | | 5 | Salon | | 6 | Salon | | 8 | Salon | | 9 | Salon | | |  |  |  |  |  | | --- | --- | --- | --- | --- | | 3 - REUNION | | | | | | nroFac | IdMesa | IdMozo | nroPer | Descripcion | | 3 | 4 | 3 | 2 | Salon | | 6 | 6 | 4 | 4 | Salon | | 7 | 9 | 5 | 4 | Salon | |
| |  | | --- | | 4 – PROYECTAR | | idMozo | | 3 | | 4 | | 5 | | |  |  | | --- | --- | | 5 – RENOMBRAR | | | idMozo | Descripcion | | 1 | Juan | | 2 | Analia | | 3 | Marcela | | 4 | Carlos | | 5 | Paula | | |  |  | | --- | --- | | 6 – REUNION | | | idMozo | Descripcion | | 3 | Marcela | | 4 | Carlos | | 5 | Paula | |

26 -

(((EXTENDER (SUMARIZAR (((Mesas RESTRICCION descripción <> ‘Salon’) PROYECTAR {nroMesa} RENOMBRAR nroMesa COMO idMesa) REUNION factura) REUNION (SUMARIZAR ItemsFacturas POR nroFac AGREGAR SUMA(Precio) COMO Total) POR idMozo AGREGAR SUMA(Total) COMO totalMozo) AGREGAR MAX(totalMozo) COMO masFacturo) RENOMBRAR masFacturo COMO totalMozo) REUNION (SUMARIZAR (((Mesas RESTRICCION descripción <> ‘Salon’) PROYECTAR {nroMesa} RENOMBRAR nroMesa COMO idMesa) REUNION factura) REUNION (SUMARIZAR ItemsFacturas POR nroFac AGREGAR SUMA(Precio) COMO Total) POR idMozo AGREGAR SUMA(Total) COMO totalMozo)) PROYECTAR {idMozo}

|  |  |
| --- | --- |
| 1 – RESTRICCION | |
| nroMesa | Descripcion |
| 1 | Rinconera |
| 2 | Reservado |
| 3 | Reservado |
| 7 | Rinconera |

|  |
| --- |
| 2 - PROYECTAR |
| nroMesa |
| 1 |
| 2 |
| 3 |
| 7 |

|  |
| --- |
| 3 - RENOMBRAR |
| idMesa |
| 1 |
| 2 |
| 3 |
| 7 |

|  |  |  |  |
| --- | --- | --- | --- |
| 4 - REUNION | | | |
| nroFac | idMesa | idMozo | nroPer |
| 1 | 1 | 3 | 5 |
| 2 | 3 | 4 | 1 |
| 4 | 3 | 2 | 1 |
| 5 | 7 | 1 | 1 |
| 8 | 2 | 3 | 3 |

|  |  |
| --- | --- |
| 5 - SUMARIZAR | |
| nroFac | Total |
| 1 | 9 |
| 2 | 10 |
| 3 | 24 |
| 4 | 12.5 |
| 5 | 13.5 |
| 6 | 7 |
| 7 | 24 |
| 8 | 16 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 6 - REUNION | | | | |
| nroFac | idMesa | idMozo | nroPer | Total |
| 1 | 1 | 3 | 5 | 9 |
| 2 | 3 | 4 | 1 | 10 |
| 4 | 3 | 2 | 1 | 12.5 |
| 5 | 7 | 1 | 1 | 13.5 |
| 8 | 2 | 3 | 3 | 16 |

|  |  |
| --- | --- |
| 7 - SUMARIZAR | |
| idMozo | totalMozo |
| 3 | 25 |
| 4 | 10 |
| 2 | 12.5 |
| 1 | 13.5 |

|  |  |
| --- | --- |
| 10 - REUNION | |
| idMozo | totalMozo |
| 3 | 25 |

|  |
| --- |
| 8 - EXTENDER |
| masFacturo |
| 25 |

|  |
| --- |
| 9 - RENOMBRAR |
| totalMozo |
| 25 |

|  |
| --- |
| 11 - PROYECTAR |
| idMozo |
| 3 |

27 -

((EXTENDER (SUMARIZAR ItemFactura POR idPlato AGREGAR SUMAR (cant) COMO cantTotal) AGREGAR MIN (cantTotal) COMO minimo) RENOMBRAR minimo COMO cantTotal) REUNION (SUMARIZAR ItemFactura POR idPlato AGREGAR SUMAR (cant) COMO cantTotal)

|  |  |
| --- | --- |
| 1 - SUMARIZAR | |
| idPlato | cantTotal |
| 101 | 6 |
| 102 | 11 |
| 103 | 1 |
| 104 | 3 |
| 105 | 28 |
| 106 | 1 |
| 107 | 2 |
| 108 | 3 |

|  |  |
| --- | --- |
| 4 - SUMARIZAR | |
| idPlato | cantTotal |
| 103 | 1 |
| 106 | 1 |

|  |
| --- |
| 3 - RENOMBRAR |
| cantTotal |
| 1 |

|  |
| --- |
| 2 - EXTENDER |
| minimo |
| 1 |

28 –

(((((((Platos RESTRICCION Descripcion=’Cafe’) PROYECTAR {Nroplato}) RENOMBRAR Nroplato COMO idPlato) REUNION ItemsFactura) PROYECTAR {nroFac}) DIFERENCIA (((((Platos RESTRICCION Descripcion=’torta’) PROYECTAR {Nroplato}) RENOMBRAR Nroplato COMO idPlato) REUNION ItemsFactura) PROYECTAR {nroFac})) REUNION Factura) PROYECTAR {idMozo}) RENOMBRAR idMozo COMO nroMozo) REUNION Mozos) PROYECTAR {Descripcion}

|  |  |  |
| --- | --- | --- |
| 1 – RESTRICCION | | |
| Nroplato | Descripcion | Precio |
| 101 | Café | 6,5 |

|  |
| --- |
| 2 - PROYECTAR |
| Nroplato |
| 101 |

|  |  |  |  |
| --- | --- | --- | --- |
| 4 – REUNION | | | |
| nroFac | idPlato | Cant | Precio |
| 3 | 101 | 2 | 6,5 |
| 5 | 101 | 1 | 6,5 |
| 7 | 101 | 2 | 6,5 |
| 8 | 101 | 1 | 6,5 |

|  |
| --- |
| 3 - RENOMBRAR |
| idPlato |
| 101 |

|  |
| --- |
| 5 – PROYECTAR |
| nroFac |
| 3 |
| 5 |
| 7 |
| 8 |

|  |  |  |
| --- | --- | --- |
| 6 – RESTRICCION | | |
| Nroplato | Descripcion | Precio |
| 108 | Torta | 9 |

|  |
| --- |
| 7 - PROYECTAR |
| Nroplato |
| 108 |

|  |  |  |  |
| --- | --- | --- | --- |
| 9 – REUNION | | | |
| nroFac | idPlato | Cant | Precio |
| 3 | 108 | 1 | 9 |
| 7 | 108 | 2 | 9 |

|  |
| --- |
| 8 - RENOMBRAR |
| idPlato |
| 108 |

|  |
| --- |
| 10 – PROYECTAR |
| nroFac |
| 3 |
| 7 |

|  |
| --- |
| 11– DIFERENCIA |
| nroFac |
| 5 |
| 8 |

|  |  |  |  |
| --- | --- | --- | --- |
| 12 - REUNION | | | |
| nroFac | idMesa | idMozo | nroPer |
| 5 | 7 | 1 | 1 |
| 8 | 2 | 3 | 3 |

|  |  |
| --- | --- |
| 15 - REUNION | |
| nroMozo | Descripcion |
| 1 | Juan |
| 3 | Marcela |

|  |
| --- |
| 13 - PROYECTAR |
| idMozo |
| 3 |
| 1 |

|  |
| --- |
| 14 - RENOMBRAR |
| nroMozo |
| 3 |
| 1 |

|  |
| --- |
| 16 - PROYECTAR |
| Descripcion |
| Juan |
| Marcela |