**Mapeo Comercial los Mellizos**

**Usuario**

**Pk Fk**

|  |  |  |
| --- | --- | --- |
| IdUsuario | Contraceña | CiP |

**Personal**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Ci | Nombre | Apellido | Dirección | Celular | Sexo | IdPersonal |

**Pk Fk**

**Compra**

**Pk Fk Fk**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| CodigoCompra | FechaCompra | TotalCompra | CiP | CodigoProveedor |

**Proveedor**

**Pk Fk**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| CodigoProveedor | Ci | Nombre | Apellido | Sexo | Dirección | Celular | CiP |

**Producto**

**Pk Fk Fk**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CodigoProducto | Descripción | CantidadStock | Precio | CiP | CodigoTipoProducto |

**DetalleCompra**

**Fk Fk**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| CodigoCompra | CodigoProducto | PrecioCompra | CantidadCompra | DescripcionCompra |

**Pk Pk**

**Venta**

**Pk Fk**

|  |  |  |  |
| --- | --- | --- | --- |
| CodigoVenta | FechaVenta | PrecioVenta | CodigoTipoVenta |

**DetalleVenta**

**Fk Fk**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| CodigoProducto | CodigoVenta | CantidadVenta | PrecioVenta | DescripcionVenta |

**Pk Pk**

**Factura**

**Pk FK Fk**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| NumeroFactura | Detalle | Precio | FechaFactura | CodigoVenta | CodigoCliente |

**Cliente**

**Pk**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CodigoCliente | Nombre | Apellido | Dirección | Celular | Sexo |

**Modelo Relacional**

**Usuario**

**PK FK**

|  |  |  |
| --- | --- | --- |
| **IdUsuario** | **Contraceña** | **CiP** |
| DanielCerezo22 | Cerezo22daniel | 109998877 |
| TeresaGuzman66 | Guzman6tere | 109998866 |

**Personal**

**PK FK**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **CiP** | **Nombre** | **Apellido** | **Direccion** | **Celular** | **Sexo** | **IdP** |
| 10661122 | Carlos | Soruco | Calle Bolivar | 77881122 | M | EC1 |
| 10661133 | Daniel | Gonzalo | Barrio San Antonio | 77881122 | M | ADM1 |
| 10661144 | Gladys | Adan | Calle Gabriel Rene Moreno | 77881133 | F | PRO1 |
| 10661155 | Harol | Maldonado | Barrio San Juan | 77881144 | M | VEN1 |
| 10661166 | Daniela | Flores | Calle Willans | 77881155 | F | SEC1 |

**Compra**

**PK FK FK**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Codigo**  **Compra** | **FechaCompra** | **TotalCompra** | **Codigo**  **Proveedor** | **CiP** |
| C1111 | 05/07/2021 | 1080 | CPR111 | 10661122 |
| C2222 | 06/07/2021 | 1140 | CPR111 | 10661122 |
| C3333 | 07/07/2021 | 720 | CPR111 | 10661122 |
| C4444 | 08/07/2021 | 780 | CPR111 | 10661122 |
| C5555 | 09/07/2021 | 1140 | CPR222 | 10661122 |
| C6666 | 10/07/2021 | 1200 | CPR222 | 10661122 |

**Proveedor**

**PK FK**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Codigo**  **Proveedor** | **Ci** | **Nombre** | **Apellido** | **Sexo** | **Dirección** | **Celular** | **CiP** |
| CPR111 | 9722999 | Daniel | Méndez | M | Santa Cruz | 69885599 | 10661166 |
| CPR222 | 9722888 | Alberto | Condori | M | Santa Cruz | 69885588 | 10661166 |

**Detalle Compra**

**FK FK**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Codigo**  **Compra** | **Codigo**  **Producto** | **Precio**  **Compra** | **Cantidad**  **Compra** | **Descripción**  **Compra** |
| C1111 | CP11 | 90 | 12 | Por las compras de poleras tambras tallas S |
| C2222 | CP22 | 95 | 12 | Por las compras de poleras tambras tallas M |
| C3333 | CP33 | 60 | 12 | Por las compras de poleras Hollister tallas S |
| C4444 | CP44 | 65 | 12 | Por las compras de poleras Hollister tallas M |
| C5555 | CP55 | 95 | 12 | Por las compras de pantalones Hollister tallas 38 |
| C6666 | CP66 | 100 | 12 | Por las compras de pantalones Hollister tallas 40 |

**PK PK**

**Producto**

**PK FK FK**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Codigo**  **Producto** | **Descripción** | **CantidadStock** | **PrecioP** | **CodigoTipo**  **Producto** | **CiP** |
| CP11 | Polera Talla S | 12 | 110 | CTP1 | 10661166 |
| CP22 | Polera Talla M | 12 | 120 | CTP1 | 10661166 |
| CP33 | Polera Talla S | 12 | 80 | CTP2 | 10661166 |
| CP44 | Polera Talla M | 12 | 90 | CTP2 | 10661166 |
| CP55 | Pantalon Talla 38 | 12 | 120 | CTP3 | 10661166 |
| CP66 | Pantalon Talla 40 | 10 | 130 | CTP3 | 10661166 |
| CP77 | Pantalon Talla 42 | 10 | 135 | CTP3 | 10661166 |

**Tipo Producto**

**PK**

|  |  |
| --- | --- |
| **CodigoTipoProducto** | **Descripción** |
| CTP1 | Polera Tambras |
| CTP2 | Polera Hollister |
| CTP3 | Pantalon Hollister |
| CTP4 | Pantalon Euro |
| CTP5 | Pantalon Marchall |
| CTP6 | Camisa San Diego |
| CTP7 | Camisa Rey |

**Venta**

**PK FK**

|  |  |  |  |
| --- | --- | --- | --- |
| **CodigoVenta** | **FechaVenta** | **PrecioTotalVenta** | **CodigoTipoVenta** |
| CV11 | 11/07/2021 | 110 | CTV11 |
| CV22 | 12/07/2021 | 120 | CTV22 |
| CV33 | 13/07/2021 | 160 | CTV33 |
| CV44 | 14/07/2021 | 180 | CTV44 |
| CV55 | 15/07/2021 | 240 | CTV55 |
| CV55 | 16/07/2021 | 130 | CTV66 |

**Detalle Venta**

**FK FK**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Codigo**  **Venta** | **Codigo**  **Producto** | **Cantidad**  **Venta** | **Precio**  **Venta** | **Descripción** |
| CV11 | CP11 | 1 | 110 | Por las ventas de poleras Tambras Talla S |
| CV22 | CP22 | 1 | 120 | Por las ventas de poleras Tambras Talla M |
| CV33 | CP33 | 2 | 80 | Por las ventas de poleras Hollister Talla S |
| CV44 | CP44 | 2 | 90 | Por las ventas de poleras Hollister Talla M |
| CV55 | CP55 | 2 | 120 | Por las ventas de pantalón Hollister Talla 38 |
| CV66 | CP66 | 1 | 130 | Por las ventas de pantalón Hollister Talla 40 |

**PK PK**

**Tipo de Venta**

**PK**

|  |  |
| --- | --- |
| **CodigoTipoVenta** | **TipoDePago** |
| CTV11 | Efecitvo |
| CTV22 | Efecitvo |
| CTV33 | Efecitvo |
| CTV44 | Efecitvo |
| CTV55 | Efecitvo |
| CTV66 | Efecitvo |

**Factura**

**PK FK FK**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Numero**  **Factura** | **Detalle** | **PrecioTotal** | **Fecha** | **Codigo**  **Venta** | **Codigo**  **Cliente** |
| 0011 | Por las ventas de poleras Tambras Talla S | 110 | 11/07/2021 | CV11 | 111 |
| 0022 | Por las ventas de poleras Tambras Talla M Hollister talla S | 120 | 12/07/2021 | CV22 | 222 |
| 0033 | Por las ventas de poleras Hollister Talla S | 80 | 13/07/2021 | CV33 | 333 |

**Cliente**

**PK**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **CICliente** | **Nombre** | **Apellido** | | **Dirección** | **Celular** | **Sexo** |
| 111 | Juan | Nuñez | Av. Humberto Suarez Roca | | 78992211 | M |
| 222 | Rudy | Gálvez | Calle Abaroa | | 77882222 | M |
| 333 | Meliza | Salazar | Calle Pabón | | 77882233 | F |
| 444 | Mercedes | Ríos | Calle Bolívar | | 77882244 | F |
| 555 | Jesús | Yucra | Barrio San Suan | | 77882255 | M |

**Diseño Físico**

**Personal**

|  |  |  |  |
| --- | --- | --- | --- |
| **Nombre** | **Tipo de Dato** | **Llave** | **Nulo** |
| Ci | Integer | **Pk** | NOT NULL |
| Nombre | Varchar (50) |  | NOT NULL |
| Apellido | Varchar (50) |  | NOT NULL |
| Dirección | Varchar (50) |  | NOT NULL |
| Celular | Integer |  | NULL |
| Sexo | Varchar (1) |  | NOT NULL |
| Idp | Integer | **FK** | NOT NULL |

**Tipo Personal**

|  |  |  |  |
| --- | --- | --- | --- |
| **Nombre** | **Tipo de Dato** | **Llave** | **Nulo** |
| IdP | Varchar (50) | **PK** | NOT NULL |
| DescripcionP | Varchar (50) |  | NOT NULL |

**Compra**

|  |  |  |  |
| --- | --- | --- | --- |
| **Nombre** | **Tipo de Dato** | **Llave** | **Nulo** |
| CodigoCompra | Varchar (50) | Pk | NOT NULL |
| FechaCompra | Date |  | NOT NULL |
| TotalCompra | Money |  | NOT NULL |
| CiP | Integer | FK | NOT NULL |
| CiProveedor | Integer | FK | NOT NULL |

**Proveedor**

|  |  |  |  |
| --- | --- | --- | --- |
| **Nombre** | **Tipo de Dato** | **Llave** | **Nulo** |
| CiProveedor | Integer | **PK** | NOT NULL |
| Nombre | Varchar (50) |  | NOT NULL |
| Apellido | Varchar (50) |  | NOT NULL |
| Dirección | Varchar (50) |  | NOT NULL |
| Celular | Integer |  | NULL |
| Sexo | Varchar (1) |  | NOT NULL |
| CiP | Varchar (50) | **FK** | NOT NULL |

**Producto**

|  |  |  |  |
| --- | --- | --- | --- |
| **Nombre** | **Tipo de Dato** | **Llave** | **Nulo** |
| CodigoProducto | Varchar (50) | **PK** | NOT NULL |
| Descripción | Varchar (50) |  | NOT NULL |
| CantidadStock | Integer |  | NOT NULL |
| PrecioTotal | Money |  | NOT NULL |
| CodigoTipoProducto | Integer | **FK** | NOT NULL |
| CiP | Integer | **FK** | NOT NULL |

**Tipo Producto**

|  |  |  |  |
| --- | --- | --- | --- |
| **Nombre** | **Tipo de Dato** | **Llave** | **Nulo** |
| CodigoTipoProducto | Varchar (50) | **Pk** | NOT NULL |
| TipoPago | Varchar (50) |  | NOT NULL |

**Detalle Compra**

|  |  |  |  |
| --- | --- | --- | --- |
| **Nombre** | **Tipo de Dato** | **Llave** | **Nulo** |
| CodigoCompra | Varchar (50) | PK-FK | NOT NULL |
| CodigoProveedor | Integer | PK-FK | NOT NULL |
| PrecioCompra | Money |  | NOT NULL |
| CantidadCompra | Integer |  | NOT NULL |
| DescripcionCompra | Varchar (50) |  | NOT NULL |

**Venta**

|  |  |  |  |
| --- | --- | --- | --- |
| **Nombre** | **Tipo de Dato** | **Llave** | **Nulo** |
| CodigoVenta | Varchar (50) | **PK** | NOT NULL |
| FechaVenta | Date |  | NOT NULL |
| PrecioVenta | Money |  | NOT NULL |
| CodigoTipoVenta | Integer | **FK** | NOT NULL |

**Tipo de Venta**

|  |  |  |  |
| --- | --- | --- | --- |
| **Nombre** | **Tipo de Dato** | **Llave** | **Nulo** |
| CodigoTipoVenta | Varchar (50) | Pk | NOT NULL |
| TipoPago | Varchar (50) |  | NOT NULL |

**Detalle Venta**

|  |  |  |  |
| --- | --- | --- | --- |
| **Nombre** | **Tipo de Dato** | **Llave** | **Nulo** |
| CodigoVenta | Varchar (50) | PK-FK | NOT NULL |
| CodigoProducto | Integer | PK-FK | NOT NULL |
| PrecioVenta | Money |  | NOT NULL |
| CantidadVenta | Integer |  | NOT NULL |
| DescripcionVenta | Varchar (50) |  | NOT NULL |

**Factura**

|  |  |  |  |
| --- | --- | --- | --- |
| **Nombre** | **Tipo de Dato** | **Llave** | **Nulo** |
| NumeroFactura | Integer | Pk | NOT NULL |
| Detalle | Varchar (50) |  | NOT NULL |
| Fecha | Date |  | NOT NULL |
| PrecioTotal | Money |  | NOT NULL |
| CodigoVenta | Integer | FK | NOT NULL |
| CodigoCliente | Integer | FK | NOT NULL |

**Cliente**

|  |  |  |  |
| --- | --- | --- | --- |
| **Nombre** | **Tipo de Dato** | **Llave** | **Nulo** |
| Ci | Integer | Pk | NOT NULL |
| Nombre | Varchar (50) |  | NOT NULL |
| Apellido | Varchar (50) |  | NOT NULL |
| Direccion | Varchar (50) |  | NOT NULL |
| Celular | Integer |  | NULL |
| Sexo | Char (1) |  | NOT NULL |