# Design Document

| Table Name | Attribute | Contents | Type | Format | Range | Require | Default | Unique | PK/FK | FK Ref. Table |
|---|---|---|---|---|---|---|---|---|---|---|
| Customer | Cust_ID | Customer ID | VARCHAR(4) | #### | | Yes | | Yes | PK | |
| | Cust_fName | Customer's first name | VARCHAR(35) | | | Yes | | | | |
| | Cust_lName | Customer's Last name | VARCHAR(35) | | | Yes | | | | |
| | Cust_initial | Customer's middle initial | CHAR(1) | | | No | | | | |
| | Cust_Phone | Customer's phone number | CHAR(11) | ###-###-#### | | Yes | | | | |
| | Cust_Address | Customer's Address | VARCHAR(50) | | | Yes | | | | |
| Order | Ord_Num | Order Number | VARCHAR(10) | XXXXXXXXXX | | Yes | | Yes | PK | |
| | Cust_ID | Customer ID | VARCHAR(4) | #### | | Yes | | Yes | FK | Customer |
| | Ord_Date | Date of order | DATE | YYYY-MM-DD | | Yes | | | | |
| Reciept | Receipt_Num | Receipt Number | INT | ########## | | Yes | | Yes | PK | |
| | Cust_ID | Customer ID | VARCHAR(4) | #### | | Yes | | Yes | FK | Customer |
| | Ord_Num | Order Number | VARCHAR(10) | XXXXXXXXXX | | Yes | | Yes | FK | Order |
| Line | Line_Num | Line Number | INT | ## | 1-50 | Yes | | Yes | PK | |
| | Receipt_Num | Receipt Number | INT | ########## | | Yes | | Yes | PK/FK | Reciept |
| | Prod_Num | Product number | VARCHAR(8) | XXXXXXXX | | Yes | | Yes | FK | Inventory |

| Table Name | Attribute | Contents | Type | Format | Range | Require | Default | Unique | PK/FK | FK Ref. Table |
|---|---|---|---|---|---|---|---|---|---|---|
| | Prod_QTY | Quantity bought | INT | ### | 1-500 | Yes | | | | |
| | Prod_Price | Product price | Decimal(9,2) | ###.## | | Yes | | | FK | Inventory |
| Inventory | Prod_Num | Product Number | VARCHAR(8) | XXXXXXXX | | Yes | | Yes | PK | |
| | Prod_Price | Product Price | Decimal(9,2) | ###.## | | Yes | | | | |
| | Inv_QTY | Product Quantity | INT | #### | 0-9999 | Yes | | | FK | Warehouse |
| | Warehouse_Code | Warehouse ID | Int | ## | 1-5 | Yes | | Yes | FK | Warehouse |
| Warehouse | Warehouse_Code | Warehouse ID | Int | ## | 1-5 | Yes | | Yes | PK | |
| | Inv_QTY | Product Quantity | INT | #### | 0-9999 | Yes | | | | |
| Transit | Transit_ID | Transit Center ID | INT | ## | 1-5 | Yes | | Yes | PK | |
| | Warehouse_Code | Warehouse ID | Int | ## | 1-5 | Yes | | Yes | FK | Warehouse |
| | Ord_Num | Order Number | VARCHAR(10) | XXXXXXXXXX | | Yes | | Yes | FK | Order |
| | Cust_ID | Customer ID | VARCHAR(4) | #### | | Yes | | Yes | FK | Customer |
| | Receipt_Num | Receipt Number | INT | ########## | | Yes | | Yes | FK | Receipt |
| | Line_Num | Line Number | INT | ## | 1-50 | Yes | | Yes | FK | Line |
| | Shipper | Shipper to use | VARCHAR | | | No | | | | |

ERD

Joseph Medina
Oct 31, 2016
CS3810

**Customer**

PK - Cust_ID
Cust_fName
Cust_lName
Cust_initial
Cust_Phone
Cust_Address

Ships to

can place

**Transit**
Transit_ID
Warehouse_Code
Ord_Num
Cust_ID
Receipt_Num
Line_Num
Shipper

**Order**

Ord_Num
Cust_ID
Ord_Date

Generates

**Receipt**

Receipt_Num
Cust_ID
Ord_Num

Prepares shipment

Can have

**Warehouse**

Warehouse_Code
Inv_QTY

Checks

**Inventory**

PK- Prod_Num
Prod_Price
Inv_QTY
Warehouse_Code

Checks

**Line**

Line_Num
Receipt_Num
Prod_Num
Prod_QTY
Prod_Price