

# SQL Relational Schema

## 1. Customers

CustID (Customer ID) – Primary Key	VARCHAR(10)
CustName (Customer Name)	VARCHAR(70)
Type (Customer Type) Non/Premium	BOOL
ExpiryDate (Membership Expiry)	DATETIME
Phone_No (Phone Number)	CHAR(10)
Email (Customer Email)	VARCHAR

## 2. CustAddress

CustID (Customer ID) –Foreign Key	VARCHAR(10)
AddressId (Address ID) – Primary Key	VARCHAR(10)
Pincode	VARCHAR(6)
State	VARCHAR(50)
City	VARCHAR(50)
FlatNo	VARCHAR(20)
Landmark	VARCHAR(100)
Category	VARCHAR(30)

## 3. Products

ProdID (Product ID) – Primary Key	VARCHAR(10)
ProdName (Product Name)	VARCHAR(100)
SubCategoryID (Sub Category) – Foreign Key	VARCHAR(5)
Brand	VARCHAR(100)
Description	TEXT
Price	DECIMAL(10, 2)

Shelf_life	VARCHAR(50)
Size (Quantity)	VARCHAR(20)

#### 4. Categories

CategoryID (Category ID) – Primary Key	VARCHAR(5)
CatName (Category Name)	VARCHAR(50)

#### 5. SubCategories

SubCategoryID (Subcategory ID)	VARCHAR(5)
SubName (Subcategory Name)	VARCHAR(50)
CategoryID – Foreign Key	VARCHAR(5)

#### 6. Suppliers

SupplierID (Supplier ID) – Primary Key	VARCHAR(10)
Name (Supplier Name)	VARCHAR(100)
Location	VARCHAR(255)
Pincode	VARCHAR(6)
City	VARCHAR(50)
State	VARCHAR(50)

#### 7. Warehouses

WarehouseID (Warehouse ID) – Primary Key	VARCHAR(10)
Name (Warehouse Name)	VARCHAR(100)
Location	VARCHAR(255)
Pincode	VARCHAR(6)
City	VARCHAR(50)
State	VARCHAR(50)

## 8. Inventory

InventoryID (Inventory ID) – Primary Key	VARCHAR(10)
WarehouseID – Foreign Key	VARCHAR(10)
ProdID – Foreign Key	VARCHAR(10)
Cost	DECIMAL(10, 2)
Quantity	INT
Min_Quantity (For Reorder)	INT
SupplyOrderID – Foreign Key	VARCHAR(10)

## 9. SupplyOrders

SupplyOrderID (Supply Order ID) – Primary Key	VARCHAR(10)
WarehouseID – Foreign Key	VARCHAR(10)
SupplierID – Foreign Key	VARCHAR(10)
SupplyDate	DATETIME

## 10. SupplyOrderDetails

SupplyOrderID – Foreign Key	VARCHAR(10)
ProdID – Foreign Key	VARCHAR(10)
Quantity	INT
Price	DECIMAL(10,2)
Total	INT

Key: {SupplyOrderID,ProdID}

## 11. DeliveryAgents

DelAgentID (Delivery Agent ID) – Primary Key	VARCHAR(10)
Name (Agent Name)	VARCHAR(70)
Phone_No (Phone Number)	CHAR(10)

Email	VARCHAR
Rating	DECIMAL(2, 1)
No_Deliveries	INT
Earnings	DECIMAL(2, 1)

## 12. Orders

OrderID (Order ID) – Primary Key	VARCHAR(10)
AgentID (Delivery Agent) – Foreign Key	VARCHAR(10)
CustID – Foreign Key	VARCHAR(10)
Discount	DECIMAL(10,2)
DeliveryFee	DECIMAL(10, 2)
Notes	VARCHAR(255)
Amount	DECIMAL(10, 2)
Method – COD/Card/UPI	VARCHAR(20)
TransactionID – Unique	VARCHAR(100)
OrderDate	DATETIME
Timestamp (Delivery Time)	DATETIME
Status	VARCHAR(40)

## 13. OrderDetails

OrderID – Foreign Key	VARCHAR(10)
ProdID – Foreign Key	VARCHAR(10)
Quantity	INT
Price	DECIMAL(10, 2)

Key: {OrderID,ProdID}

## 14. HelpAgents

HelpAgentID (Help Agent ID) – Primary Key	VARCHAR(10)
Name (Agent Name)	VARCHAR(70)
Phone_No (Phone Number)	CHAR(10)
Email	VARCHAR
Rating	DECIMAL(2, 1)
Earnings	DECIMAL(2, 1)

## 15. Complaints

OrderID – Foreign Key	VARCHAR(10)
CustID – Foreign Key	VARCHAR(10)
Type	VARCHAR(50)
TicketNo – Primary Key	VARCHAR(5)
HelpAgentID – Foreign Key(HelpAgents)	VARCHAR(10)
Refund – Refunded/Not Refunded	BOOL
Description	TEXT

## 16. Cart

CartID – Primary Key	VARCHAR(10)
CustID – Foreign Key	VARCHAR(10)
No_Products	INT
Total	DECIMAL(10, 2)

## 17. CartDetails

CartID – Foreign Key	VARCHAR(10)
ProdID – Foreign Key	VARCHAR(10)
Quantity	INT
Sub_Total	DECIMAL(10, 2)

Key: {CartID,ProdID}

## 18. RefundDetails

RefundID – Primary Key	VARCHAR(10)
Amount	DECIMAL(10, 2)
TransactionID – Unique	VARCHAR(10)
TicketNo – Foreign Key	VARCHAR(5)
Date	DATETIME

