StoreMaster
- RegStoreNo INT
- Region VARCHAR(10)
- CreatedOn DATETIME
- ChangedOn DATETIME
- Indexes
- PRIMARY

Major Product Category
- MajorCatCD INT
- MajorCatDESC VARCHAR(45)
- CreatedOn DATETIME
- ChangedOn DATETIME
- Indexes
- PRIMARY

Product Category
- CategoryCD INT
- CategoryDESC VARCHAR(55)
- MajorCatCD INT
- CreatedOn DATETIME
- ChangedOn DATETIME
- Indexes
- PRIMARY
- fk_Product Category_Major Product Category1_idx

Product SubCategory
- SubCatCD INT
- SubCatDESC VARCHAR(65)
- CategoryCD INT
- CreatedOn DATETIME
- UpdatedOn DATETIME
- Indexes
- PRIMARY
- fk_Product SubCategory_Product Category1_idx

Order
- SalesOrderID INT
- CustomerID INT
- RegStoreNo INT
- Order Date DATETIME
- CreatedOn DATETIME
- ChangedOn DATETIME
- Indexes
- fk_Customer_has_StoreMaster_StoreMaster1_idx
- fk_Customer_has_StoreMaster_Customer1_idx
- PRIMARY

Product Group
- ProductGroupID INT
- ProductGroupDesc VARCHAR(70)
- SubCatCD INT
- CreatedOn DATETIME
- ChangedOn DATETIME
- Indexes
- PRIMARY
- fk_Product Group_Product SubCategory_idx

Sales Item
- ProductNo INT
- SalesOrderID INT
- SalesQTY INT
- SalesAMT DECIMAL(13,3)
- UnitPrice DECIMAL(13,3)
- CreatedOn DATETIME
- ChangedOn DATETIME
- Indexes
- PRIMARY
- fk_Product_has_Order_Order1_idx
- fk_Product_has_Order_Product1_idx

Product
- ProductNo INT
- ProductDESC VARCHAR(70)
- ProductGroupID INT
- CreatedOn DATETIME
- ChangedOn DATETIME
- Indexes
- PRIMARY
- fk_Product_Product Group1_idx

Customer
- CustomerID INT
- CustomerPhone VARCHAR(15)
- CustomerCreditCard VARCHAR(20)
- CreatedOn DATETIME
- ChangedOn DATETIME
- Indexes
- PRIMARY

Note:

- I removed SalesItemNo because it was unnecessary — now using Product and Order as a composite key.

- I removed the underscores in the table and column names for consistency.

- I added a Customer ID because the original table didn't have a unique identifier.

- Customers could exist in the database before placing any orders.

- The CAT_CD attribute for the "Product Category" entity is defined as an integer for consistency across all category records.
The "RX" record currently stored as text will be converted to a unique integer identifier (e.g., 9999)
during data cleaning to ensure referential integrity and type consistency in the logical design.

1. Major Product Category

2. Product Category

3. Product Sub Category

4. Product Group

5. Product

6. Store Master

7. Customer

8. Order

9. Sales Item

We decided to load the product hierarchy tables first because they form a clear top-down dependency chain. Each level (major category, category, subcategory, group, and product) relies on the one above it. Loading

After the product data is established, we load the Store Master and Customer tables since they are