Customer

<u>Customer_ID</u>
Name
   First_Name
   Last_Name
{Order_ID}
Customer_Email
Customer_Phone_Number
Payment_Total
Paid_Total
Balance ()
Delivery_Address
   DA_Line_One
   DA_Line_Two
   DA_City
   DA_State
   DA_Zipcode

Credit_Card

Card_Number
Card_Owner_Name
Card_CVV
Card_Expire_Date
Card_Billing_Address
   CBA_Line_One
   CBA_Line_Two
   CBA_City
   CBA_State
   CBA_Zipcode

Owns

PaidWith

Order

<u>Order_ID</u>
Customer_ID
Payment_Card_Number
Ordering_Total
Status

Order_Item

<u>Product_ID</u>
Quantity
Unit_Price
Subtotal
{Warehouse_ID}

Includes

Ordering

Staff

<u>Staff_ID</u>
Name
   First_Name
   Last_Name
Address
   A_Line_One
   A_Line_Two
   A_City
   A_State
   A_Zipcode
Staff_Email
Staff_Phone_Number
Salary
Job_title

Product

<u>Product_ID</u>
 Name
 Category
 Size

Category

Label

Additional_Information

Stock

<u>Product_ID</u>
<u>Warehouse_ID</u>
Item_Quantity
Size_Total

Availability

Select_Time

GetPrice_Time

GetPrice

Stores

Stores_Time

addStock

Warehouse

<u>Warehouse_ID</u>
Name
Address
   A_Line_One
   A_Line_Two
   A_City
   A_State
   A_Zipcode
Capacity
Capacity_Used
Capacity_Remained ()

Product_Pricing

<u>Product_ID</u>
<u>Delivery_State</u>
Unit_Price

Pricing

New_Price
Pricing_Time

Add_Quantity
Add_Size
Add_Time

Supplier

<u>Supplier_ID</u>
Name
Supplier_Email
Supplier_Phone_Number
Address
   A_Line_One
   A_Line_Two
   A_City
   A_State
   A_Zipcode

Request

Details

Supplies

Supplier_Item

<u>Product_ID</u>
Supplier_Price

Supply_Time

<Remarks on Attribute Name>

- **Customer**
    - Order_ID: Multivalued - tracking all the orders related to a particular customer.
    - Payment_Total: Total amount of money charging the customer on all orders.
    - Paid_Total: Total amount of money already paid by the customer for the orders.
    - Balance: Amount of balance the customer owe/credit, i.e. Payment_Total - Paid_Total.

- **Order**
    - Payment_Card_Number: must be paid with a card in Credit_Card.
    - Ordering_Total: Sum of Order_Item.Subtotal related to a particular Order_ID.
    - Status: only accepts the values of "pending" (items in shopping cart), "issued", "sent" and "received".

- **Order_Item**
    - Warehouse_ID: Multivalued - in case the stock in one warehouse is not enough for the order.

- **Warehouse**
    - Capacity_Used: Sum of all records of Stock.Size_Total in a unique Warehouse_ID.
    - Capacity_Remained: Capacity - Capacity_Used.

- **Stock**
    - Size_Total: Product of Product.Size and Stock.Item_Quantity.
    - Item_Quantity: increase with the value of addStock.Add_Quantity, and decrease with Order_Item.Quantity when the foreign key in Order_Item matches with the primary key in Stock.