**Entities and Attributes**

1. Customer (Customer\_ID(PK), First\_Name, Last\_Name, Email, Password\_Hash, Gender, Membership, date\_of\_birth, Customer\_Address (Zip\_Code, Country, State, City, Street))
2. Order(Order\_ID (PK), Customer\_ID (FK), Product\_ID(FK), Order\_Date, Order\_Status, Sub\_Quantity, Total\_Quantity, Total\_Price)
3. Transaction (Transaction\_ID(PK), Order\_ID(FK), Customer\_ID(FK), Transaction\_Time, Transaction\_Status, Amount, Payment\_Method)
4. Delivery (Delivery\_ID(PK), Transaction\_ID(FK), Delivery\_Start\_Date, Delivery\_End\_Date, Delivery\_Status)
5. Product (Product\_ID (PK), Category\_ID(FK), Product\_Description, Product\_Price, Purchase\_Price, Product\_Name, Discount\_Price, Rate\_Value)
6. Supply (Supplier\_ID(FK), Product\_ID(FK), Quantity\_Available)
7. Supplier (Supplier\_ID(PK), Supplier\_Email, , Supplier\_Name, Supplier\_Phone, Supplier\_Address(Street,City, State, Country, Zip\_Code))
8. Ads (Ad\_ID(PK), Product\_ID(FK), Ad\_Description, Ad\_Status)
9. Category (Category\_ID(PK), Parent\_Category\_ID(FK), Category\_Type, Category\_Description)