**🔍 Key Design Details**

**✅ Entities & Attributes**

* **Customer**
  + CustomerID (PK), FirstName, LastName, Email, Phone, DateJoined
* **Order**
  + OrderID (PK), CustomerID (FK), OrderDate, TotalAmount, PurchaseMode
* **Product**
  + ProductID (PK), ProductName, Category, Price
* **OrderProduct** *(junction table for many-to-many)*
  + OrderID (FK), ProductID (FK), Quantity, PriceAtPurchase
* **Inventory**
  + InventoryID (PK), ProductID (FK), FulfillmentCenter, StockLevel, LastUpdated

**🔗 Relationships**

* One-to-Many: **Customer ➝ Orders**
* Many-to-Many (via OrderProduct): **Orders ⇄ Products**
* One-to-Many: **Product ➝ Inventory**

**✅ Normalization**

* Fully normalized to **3NF**:
  + No redundant attributes.
  + Proper use of junction table (OrderProduct) to handle many-to-many.
  + Referential integrity with foreign keys.