**Task 1: Understanding the Data**

1. **Describe the data in hand in your own words**.

This database contains Sales details of transaction of a superstore.

The structure has 5 tables, namely

Cust\_dimen (containing details about customer and their respective locations),

Prod\_dimen (containing product category and their subcategories),

Orders\_dimen (with order no, date, and priority),

Shipping\_dimen (with ship date, order and shipping mode), and

market\_fact (Orderwise , marketwise , orderquantity, sales value, discount profit and shipping cost details).

From this database we can get no of insights from it and it helps in taking various decisions easily.

Using cust\_dimen we can get no of customers from various regions which has different customer segments in it.

Using market\_fact we can get which product has highest and lowest sales and then profit according to sales and order quantity.

Using prod\_dimen we can get which products category and product sub category purchased by the customers using SQL queries.

Using orders\_dimen we can get products order date and which products has high or low order priority accordingly.

Using shipping\_dimen we can get products shipping date and by which mode the following products shipped.

**2. Identify and list the Primary Keys and Foreign Keys for this dataset provided to you.**

1. cust\_dimen - Cust\_id as Primary Key, no foreign key

2. prod\_dimen - Prod\_id as Primary Key, no foreign key

3. orders\_dimen - Ord\_id as Primary Key. But Order\_ID will as foreign key in shipping\_dimen.

4. shipping\_dimen - Shipping id as primary key and Order\_ID as foreign key.

5. market\_fact - Ord\_id, Prod\_id, Ship\_id and Cust\_id as foreign key. No Primary Key

**Task 2: Basic & Advanced Analysis**



























