DATA DESCRIPTION FOR SUPERSTORE DATA:

Note: Here I have given VARCHAR() instead of TEXT and INT to pass the values without errors(we can Give VARCHAR() to any PRIMARY DATA for length varying purpose as length of character)

Superstore_data types in my own words.

 cust_dimen: Details of all the customers Customer_Name (TEXT): Name of the customer Province (TEXT): Province of the customer Region (TEXT): Region of the customer Customer_Segment (TEXT): Segment of the customer Cust id (VARCHAR()): Unique Customer ID 2. market_fact: Details of every order item sold Ord_id (TEXT): Order ID Prod_id (TEXT): Prod ID Ship_id (TEXT): Shipment ID Cust_id (TEXT): Customer ID Sales (DOUBLE): Sales from the Item sold Discount (DOUBLE): Discount on the Item sold Order_Quantity (INT): Order Quantity of the Item sold Profit (DOUBLE): Profit from the Item sold Shipping_Cost (DOUBLE): Shipping Cost of the Item sold Product Base Margin (DOUBLE): Product Base Margin on the Item sold 3. orders dimen: Details of every order placed Order_ID (INT): Order ID Order_Date (TEXT): Order Date Order_Priority (TEXT): Priority of the Order Ord_id (VARCHAR()): Unique Order ID 4. prod_dimen: Details of product category and sub category

Product_Category (TEXT): Product Category

```
Product_Sub_Category (VARCHAR()): Product Sub Category
Prod_id (VARCHAR()): Unique Product ID
```

5. shipping_dimen: Details of shipping of orders

Order_ID (INT): Order ID

Ship_Mode (TEXT): Shipping Mode

Ship_Date (TEXT): Shipping Date

Ship_id (VARCHAR()): Unique Shipment ID

Primary Keys and Foreign Keys for this dataset

cust_dimen

Primary Key: Cust_id

Foreign Key: NA

2. market_fact

Primary Key: NA

Foreign Key: Ord_id, Prod_id, Ship_id, Cust_id

3. orders_dimen

Primary Key: Ord_id

Foreign Key: NA

4. prod_dimen

Primary Key: Prod_id, Product_Sub_Category

Foreign Key: NA

5. shipping_dimen

Primary Key: Ship_id

Foreign Key: NA

SUPER STORE DATABASE QUERIES:

```
SELECT customer_Name "customer_Name",customer_segment "customer_segment"
FROM cust_dimen;
SELECT * FROM cust_dimen
ORDER BY Customer_Name DESC;
SELECT order_ID, order_Date, ord_id
FROM orders_dimen
WHERE Order_Priority='HIGH';
SELECT
SUM(sales) AS total_sales, AVG(sales) AS avg_sales
FROM market_fact;
SELECT MAX(sales), MIN(sales)
FROM market_fact;
SELECT region, COUNT(*) AS no_of_customers
FROM cust_dimen
GROUP BY region
ORDER BY no_of_customers DESC;
SELECT region, COUNT(*) AS no_of_customers
FROM cust_dimen
GROUP BY region
HAVING
no_of_customers >= ALL (
                            SELECT COUNT(*) AS no_of_customers
FROM cust_dimen
GROUP BY region );
```

```
SELECT c.customer_name, COUNT(*) AS no_of_tables_purchased
FROM market_fact m
INNER JOIN cust_dimen c ON m.cust_id = c.cust_id
WHERE c.region = 'atlantic'
AND m.prod_id = ( SELECT prod_id
FROM prod_dimen
WHERE product_sub_category = 'tables')
GROUP BY m.cust_id, c.customer_name;
SELECT Customer_Name AS "Customer Name", Customer_Segment AS "no. of small businees
owners"
FROM cust dimen WHERE Province="ONTARIO" AND Customer Segment="SMALL BUSINESS";
SELECT prod_id AS product_id, COUNT(*) AS no_of_products_sold
FROM market fact
GROUP BY prod_id
ORDER BY no of products sold DESC;
SELECT Prod_id , Product_Sub_Category
FROM prod dimen
WHERE Product Category IN("TECHNOLOGY" AND "FURNITURE");
SELECT p.Product_Category AS "Product Category", round(sum(m.Profit), 2) AS "Profits"
FROM market fact m
JOIN Prod dimen p ON m.Prod id=p.Prod id
GROUP BY p.Product Category
ORDER BY sum(m.Profit) DESC;
SELECT p.product_category, p.product_sub_category, SUM(m.profit) AS profits
FROM market fact m
INNER JOIN prod dimen p ON m.prod id = p.prod id
GROUP BY p.product_category, p.product_sub_category;
```

```
SELECT Customer_Name
FROM cust_dimen
WHERE Customer_Name LIKE'_R%';
SELECT Customer_Name
FROM cust_dimen
WHERE Customer_Name LIKE'___D%';
SELECT a.Cust_id,a.customer_Name,a.Region,
b.sales
FROM cust_dimen a,market_fact b
WHERE a.cust_id=b.cust_id
AND b.sales BETWEEN 1000 AND 5000;
SELECT sales
FROM
(SELECT sales
FROM market_fact
ORDER BY sales DESC
LIMIT 1) AS Comp
ORDER BY sales
LIMIT 3;
SELECT c.region, COUNT(distinct s.ship_id) AS no_of_shipments, SUM(m.profit) AS
profit_in_each_region
FROM market fact m
INNER JOIN cust_dimen c ON m.cust_id = c.cust_id
INNER JOIN shipping_dimen s ON m.ship_id = s.ship_id
INNER JOIN prod_dimen p ON m.prod_id = p.prod_id
WHERE p.product_sub_category IN
(SELECT p.product_sub_category
FROM market_fact m
INNER JOIN
prod_dimen p ON m.prod_id = p.prod_id
```

GROUP BY p.product_sub_category

HAVING SUM(m.profit) <= ALL

(SELECT SUM(m.profit) AS profits

FROM market_fact m

INNER JOIN prod_dimen p ON m.prod_id = p.prod_id

GROUP BY p.product_sub_category))

GROUP BY c.region

ORDER BY profit_in_each_region DESC;