ASSIGNMENT-04

TASK 01

A. Describe the data in hand in your own words.

Table 01: cust_dimen: It consists of all the details of 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 (TEXT): Unique Customer ID

Table 02: market_fact: It consists of all the 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

Table 03: orders_dimen: Details of every order placed by the customers.

Order_ID (INT): Order ID

Order_Date (TEXT): Order Date

Order_Priority (TEXT): Priority of the Order

Ord_id (TEXT): Unique Order ID

Table 04: prod_dimen: The details of product category and sub category of each and every

product.

Product_Category (TEXT): Product Category

Product_Sub_Category (TEXT): Product Sub Category

Prod_id (TEXT): Unique Product ID

Table 05: shipping_dimen: The details of all the shipping orders of the products

Order_ID (INT): Order ID

Ship_Mode (TEXT): Shipping Mode

Ship_Date (TEXT): Shipping Date

Ship_id (TEXT): Unique Shipment ID

B. Identify and list the Primary Keys and Foreign Keys for this dataset

 Table 01:
 cust_dimen

Primary Key: Cust_id

Foreign Key: Not Available

Table 02: market_fact

Primary Key: Not Available

Foreign Key: Ord_id, Prod_id, Ship_id, Cust_id

Table 03: orders_dimen

Primary Key: Ord_id

Foreign Key: Not Available

 Table 04:
 prod_dimen

Primary Key: Prod_id, Product_Sub_Category

Foreign Key: Not Available

Table 05: shipping_dimen

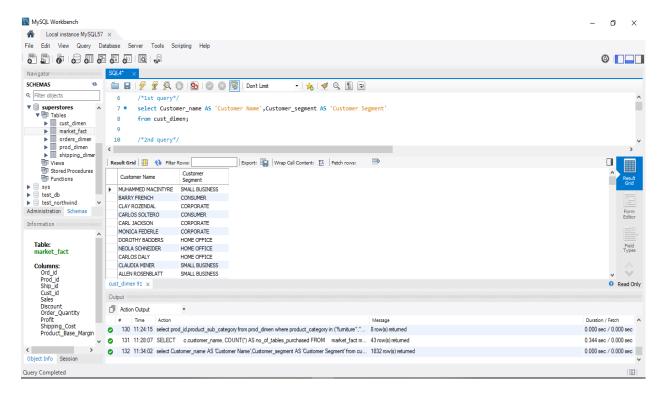
Primary Key: Ship_id

Foreign Key: Not Available

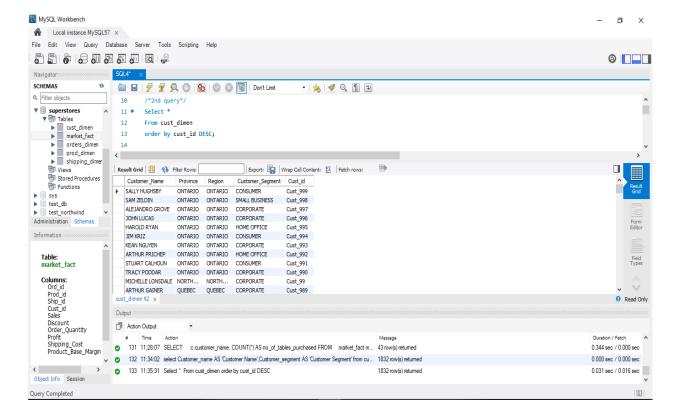
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Task 02:

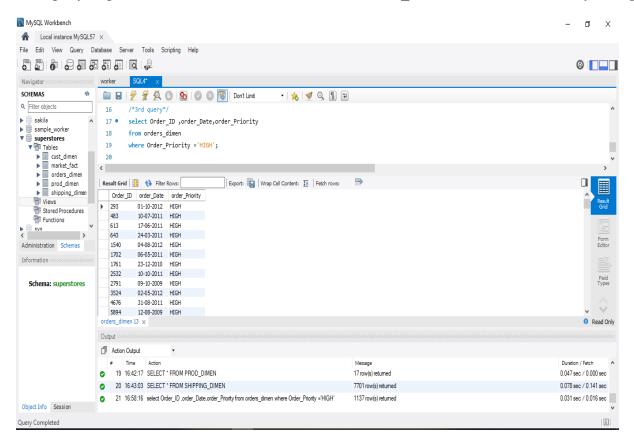
1) A query to display the Customer_Name and Customer Segment using alias name "Customer Name", "Customer Segment" from table Cust_dimen



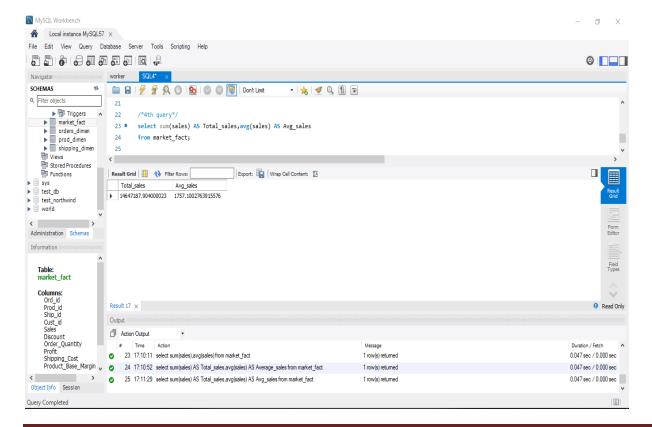
2) A query to find all the details of the customer from the table cust_dimen order by desc.



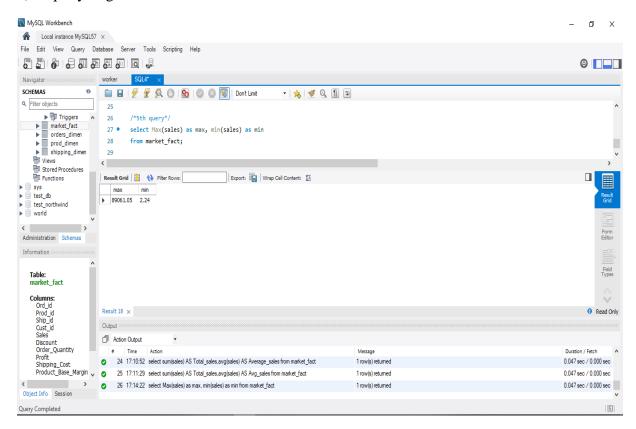
3) A query to get the Order ID, Order date from table orders_dimen where 'Order Priority' is high



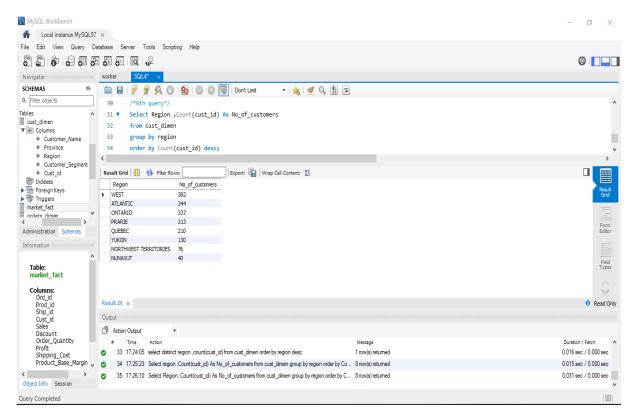
4)The total and the average sales (display total_sales and avg_sales)



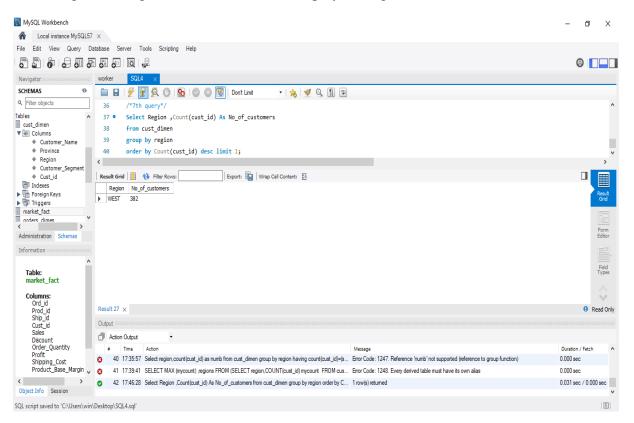
5) A query to get the maximum and minimum sales from maket_fact table.



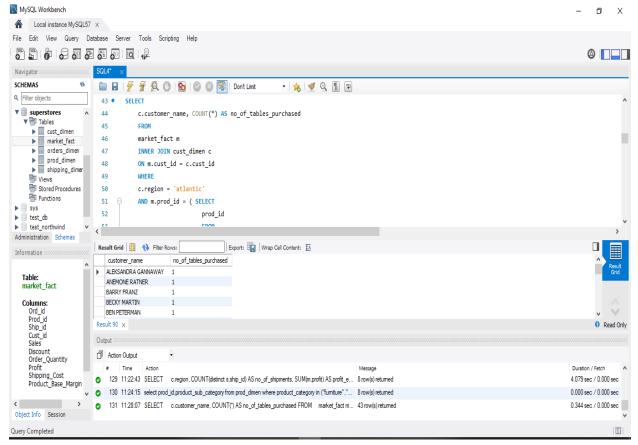
5) Display the number of customers in each region in decreasing order of no_of_customers. The result should contain columns Region, no_of_customers.



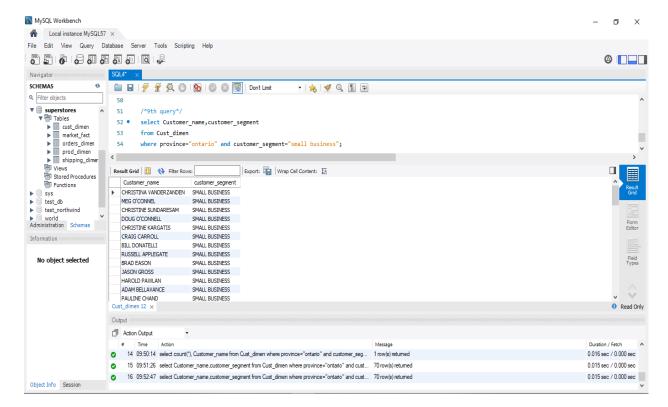
7) The region having maximum customers (display the region name and max(no_of_customers)



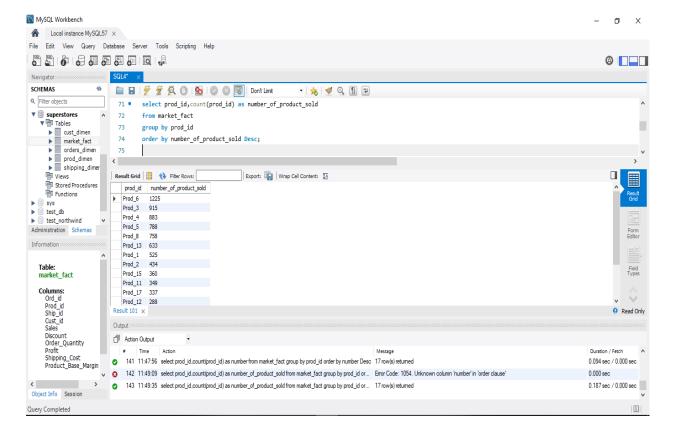
8) A query to retrieve all the customers from Atlantic region who have ever purchased 'TABLES' and the number of tables purchased (display the customer name, no_of_tables purchased)



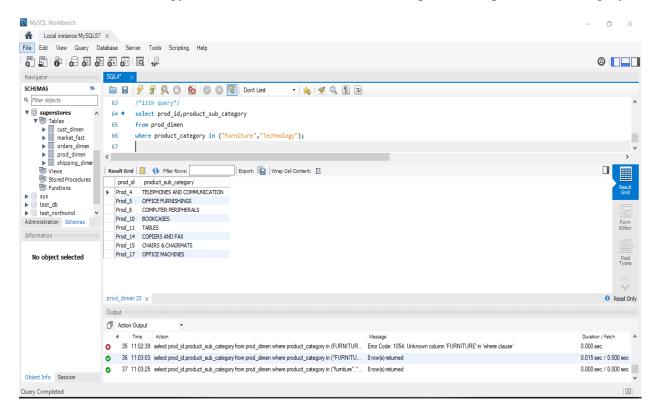
9) A query to obtain all the customers from Ontario province who own Small Business. (display the customer name, no of small business owners)



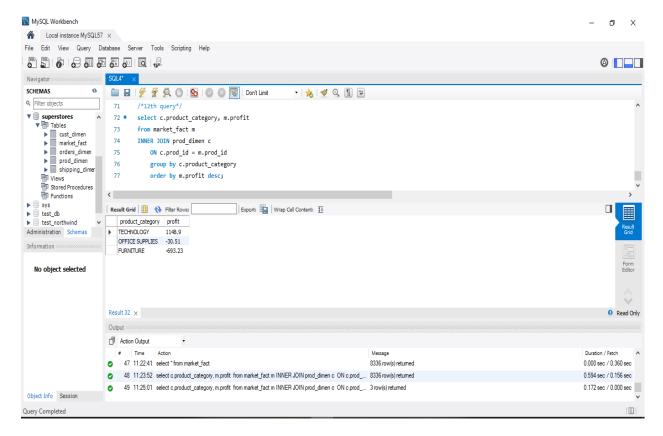
10) A query to retrieve the number and id of products sold in decreasing order of products sold (display product id, no_of_products sold)



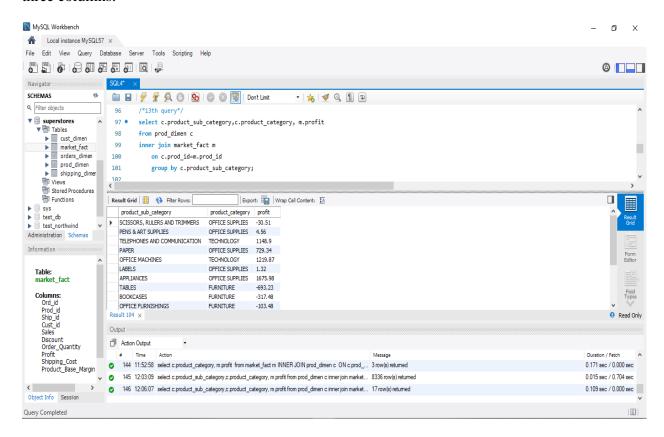
11) A query display product Id and product sub category whose product category belongs to Furniture and Technology. The result should contain columns product id, product sub category.



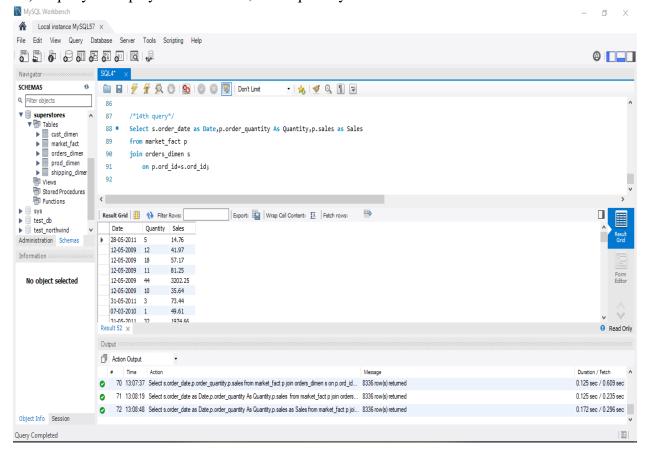
12) A query to display the product categories in descending order of profits (display the product category wise profits i.e. product_category, profits)?



13) Display the product category, product sub-category and the profit within each subcategory in three columns.

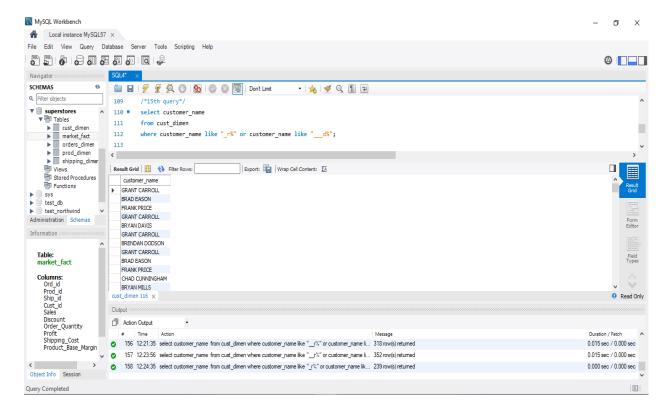


14) A query to display the order date, order quantity and the sales for the order.

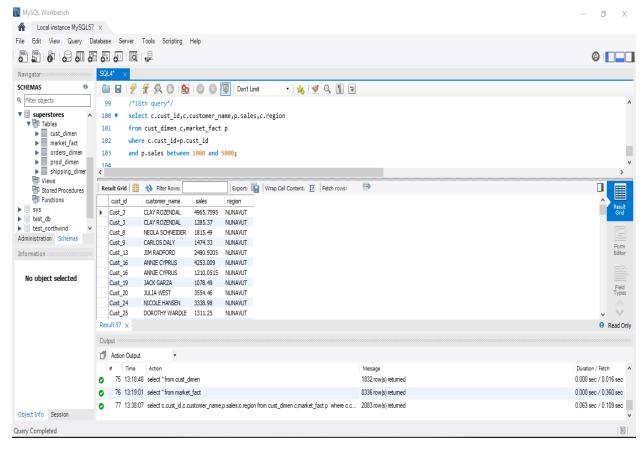


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15)A query to display the names of the customers whose name contains the i) Second letter as 'R' ii) Fourth letter as 'D

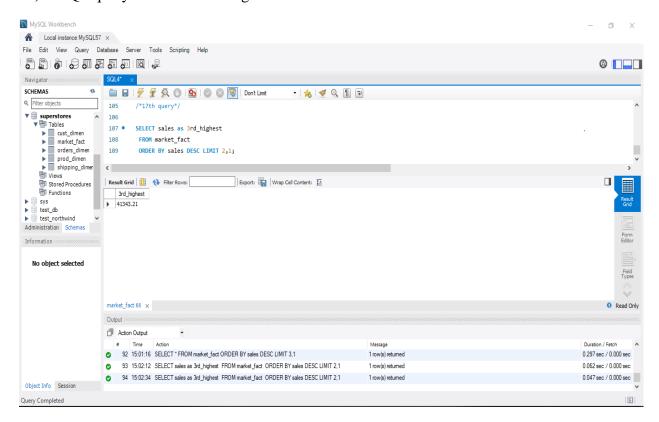


16) A SQL query to make a list with Cust_Id, Sales, Customer Name and their region where sales are between 1000 and 5000.



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17) A SQL query to find the 3rd highest sales.



18) A query to obtain the least profitable product subcategory shipped the most? For the least profitable product sub-category, display the region-wise no_of_shipments and the profit made in each region in decreasing order of profits (i.e. region, no_of_shipments, profit_in_each_region)

