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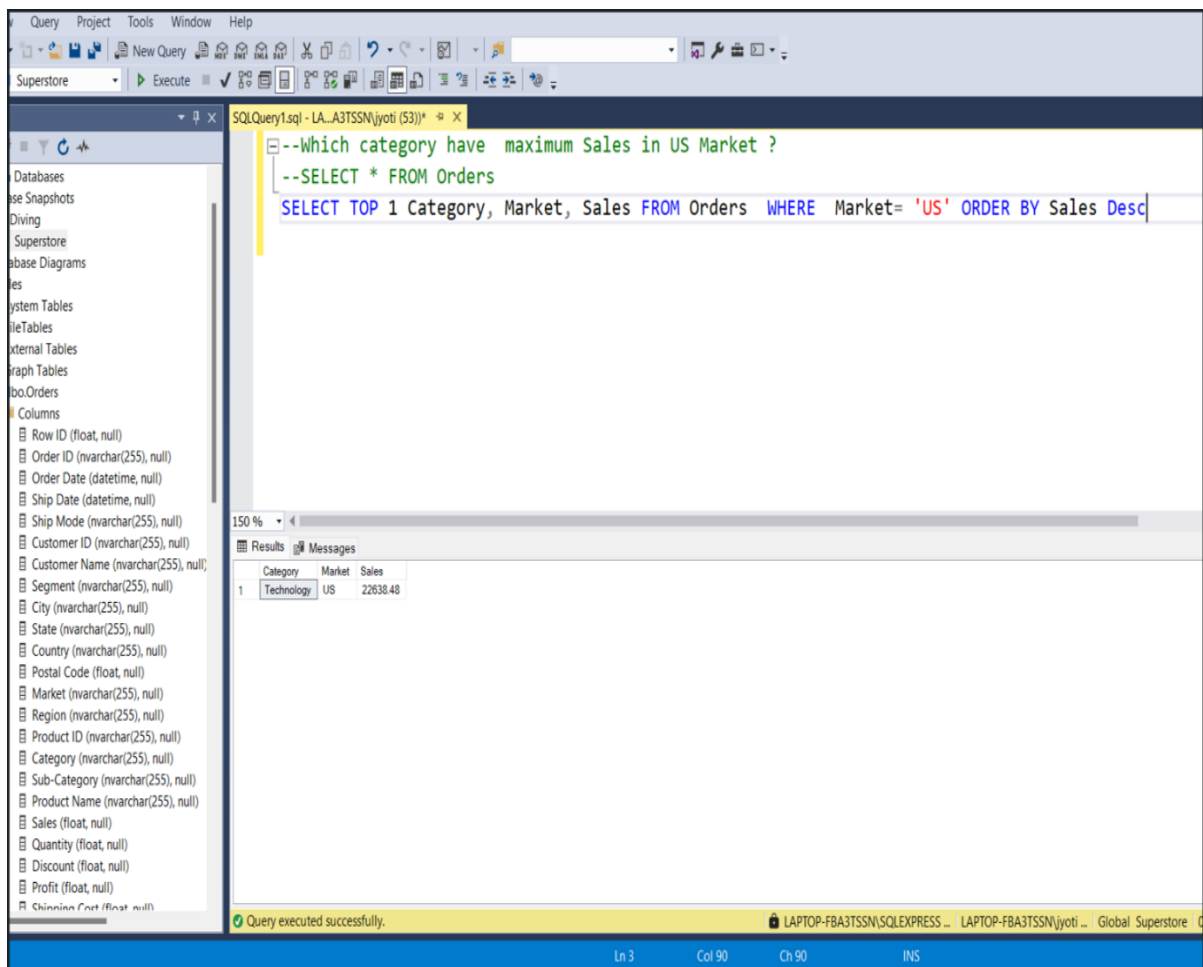
Data Set: Global Superstore

Management Tool - SSMS

MODULE- SQL

Q1. Which category has the highest sales in the US market?

Ans. SELECT TOP 1 Category, Market, Sales FROM orders WHERE
Market = 'US' ORDER BY DESC ;



The screenshot displays the SQL Server Enterprise Manager (SSMS) interface. The left pane shows the 'Superstore' database structure, including tables like 'Orders' and 'Customers'. The central query editor contains the following SQL query:

```
--Which category have maximum Sales in US Market ?  
--SELECT * FROM Orders  
SELECT TOP 1 Category, Market, Sales FROM Orders WHERE Market= 'US' ORDER BY Sales Desc
```

The bottom pane shows the results of the query, which is a single row:

Category	Market	Sales
Technology	US	22638.48

The status bar at the bottom indicates 'Query executed successfully.' and shows the file path 'LAPTOP-FBA3TSSN\SQLEXPRESS ... LAPTOP-FBA3TSSN\jyoti ... Global Superstore'.

Q2. Show the Products having maximum Return Orders?

Ans. SELECT Top 10 COUNT (returned) AS Returns, [Product Name]

FROM Orders. INNER JOIN Returns ON orders. [order.ID] GROUP BY [product Name] ;

The screenshot shows the Microsoft SQL Server Enterprise Manager interface. The Object Explorer on the left displays the database structure for 'Global Superstore'. The central query window contains the following SQL code:

```
--Show the Products having maximum return orders?  
SELECT TOP 10 COUNT(returned) AS Returns, [Product Name] FROM Orders  
INNER JOIN Returns ON Orders.[Order ID] = Returns.[Order ID] GROUP BY [Product Name]
```

The Results pane at the bottom displays the output of the query, showing the top 10 products by the number of returns. The data is as follows:

Returns	Product Name
1	While you Were Out Message Book, One Form per ...
1	#10-4 1/2" x 9 1/2" Recycled Envelopes
1	#10-4 1/2" x 9 1/2" Security-Tint Envelopes
1	14-7/8 x 11 Blue Bar Computer Printout Paper
1	2300 Heavy-Duty Transfer File Systems by Perma
1	24-Hour Round Wall Clock
1	3M Polaring Task Lamp with Clamp Arm, Light Gray
1	4009 Highlighters by Sanford
1	50 Colored Long Pencils
1	Aastra 57i VoIP phone

Q3. Calculate the sum of Sales Region wise?

Ans. SELECT Region, SUM (Sales) AS Total Sales FROM ORDERS GROUP BY Region;

The screenshot shows the Microsoft SQL Server Enterprise Manager interface. The Object Explorer on the left displays the database structure for 'Global Superstore'. The central query window contains the following SQL code:

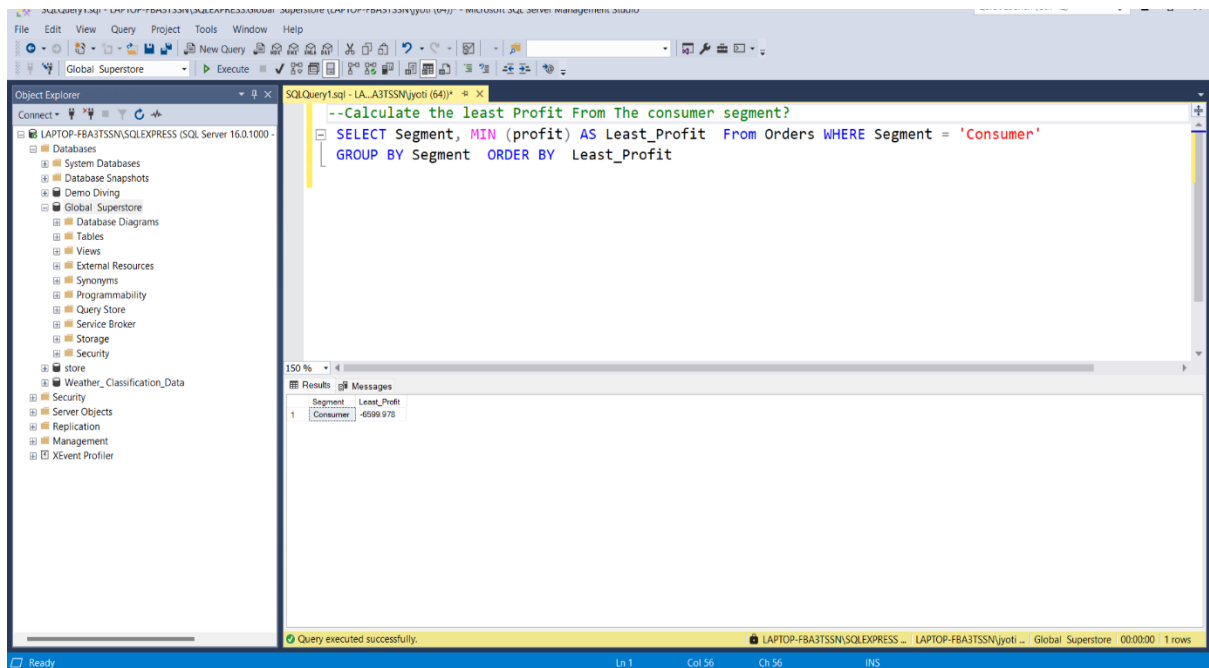
```
-- Calculate the Sum of Sales Regionwise  
-- SELECT * FROM Orders  
SELECT Region, SUM(Sales) AS Total_sales FROM Orders GROUP BY Region
```

The Results pane at the bottom displays the output of the query, showing the total sales for each region. The data is as follows:

Region	Total_sales
North	1248165.60252
East	678781.2399999996
EMEA	806181.3109999998
Africa	753773.2109999998
North Asia	848309.7809999998
Oceania	1100184.612
Caribbean	324280.86104
South	1608097.04087999
Canada	66028.17
Southeast Asia	884423.1690000003
Central Asia	752826.5669999998
West	725457.8245
Central	2822302.51993999

Q4. Calculate the least profit from the consumer segment?

Ans. SELECT segment MIN (Profit) AS least_Profit From Orders WHERE Segment = 'consumer' name GROUP BY Segment ORDER BY least_Profit;



The screenshot shows the Microsoft SQL Server Enterprise Manager interface. The Object Explorer on the left displays the database structure for 'Global Superstore'. The central query window contains the following SQL query:

```
--Calculate the least Profit From The consumer segment?  
SELECT Segment, MIN (profit) AS Least_Profit From Orders WHERE Segment = 'Consumer'  
GROUP BY Segment ORDER BY Least_Profit
```

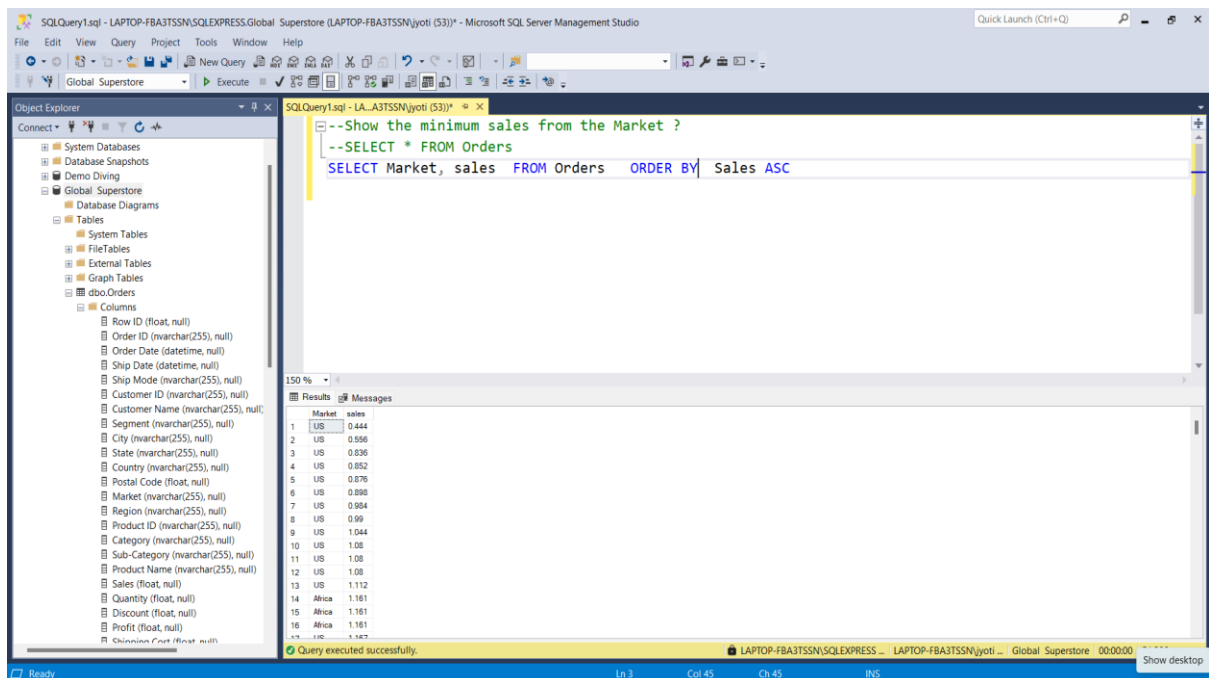
The Results pane at the bottom shows the output of the query:

Segment	Least_Profit
Consumer	-6599.978

The status bar at the bottom indicates 'Query executed successfully.' and '1 rows'.

Q5. Show the Minimum Sales from the market?

ANS. SELECT Market, Sales FROM Orders ORDER BY DESC;



The screenshot shows the Microsoft SQL Server Enterprise Manager interface. The Object Explorer on the left displays the database structure for 'Global Superstore'. The central query window contains the following SQL query:

```
--Show the minimum sales from the Market ?  
--SELECT * FROM Orders  
SELECT Market, sales FROM Orders ORDER BY Sales ASC
```

The Results pane at the bottom shows the output of the query:

Market	sales
US	0.444
US	0.556
US	0.636
US	0.852
US	0.876
US	0.888
US	0.964
US	0.99
US	1.044
US	1.08
US	1.08
US	1.08
US	1.112
Africa	1.161
Africa	1.161
Africa	1.167

The status bar at the bottom indicates 'Query executed successfully.' and '17 rows'.

Q6. Name the products having the highest discount? `

ANS. SELECT [Product Name], MAX(Discount) AS Highest_Discount FROM Orders GROUP BY [Product Name] ORDER BY Highest_Discount DESC;

The screenshot shows the Microsoft SQL Server Management Studio interface. The query editor contains the following SQL code:

```
--Name the products having highest discount?
SELECT [Product Name], Max(Discount)AS Highest_Discount FROM Orders
GROUP BY [Product Name] ORDER BY Highest_Discount DESC
```

The Results pane displays the following data:

Product Name	Highest_Discount
1 Blank Conference Table, Fully Assembled	0.85
2 Chromacraft Coffee Table, Fully Assembled	0.85
3 GBC DocuBind TL300 Electric Binding System	0.8
4 Hoover Shoulder Vac Commercial Portable Vacuum	0.8
5 Bico Covers for Plastic or Wire Binding Elements	0.8
6 Hoover Commercial Lightweight Upright Vacuum	0.8
7 Performers Binder/Pad Holder, Black	0.8
8 GBC ProClick Punch Binding System	0.8
9 Acro 6 Outlet Guardian Premium Surge Suppressor	0.8
10 Zipper Ring Binder Pockets	0.8
11 GBC Plastic Binding Combis	0.8
12 Prestige Round Ring Binders	0.8
13 Bico Standard Transparent Covers	0.8
14 Hon Coffee Table, Fully Assembled	0.8
15 Acro 6 Outlet Guardian Basic Surge Suppressor	0.8
16 Honeywell Envirocare Portable Air Cleaner for up to	0.8
17 Soundbite Tech Industries Enviro Tech Binders	0.8

The status bar at the bottom indicates "Query executed successfully." and "3,788 rows".

Q7. Calculate the average sales Country wise?

ANS. SELECT Country, AVG(Sales) AS Average_Sales_Country wise FROM orders GROUP BY Country;

The screenshot shows the Microsoft SQL Server Management Studio interface. The query editor contains the following SQL code:

```
--Calculate the average sales Countrywise?
--SELECT * FROM Orders
SELECT country , AVG(Sales) AS Average_sales_Countrywise From Orders GROUP BY Country
```

The Results pane displays the following data:

country	Average_sales_Countrywise
1 Finland	323.50546875
2 Martinique	238.7260416
3 Rwanda	144.28
4 South Korea	192.588412790698
5 Bahrain	334.59
6 Myanmar (Burma)	251.02115441176
7 Liberia	237.392
8 Guatemala	262.569505489443
9 Macedonia	52.41
10 Vietnam	248.302639245283
11 New Zealand	273.918191082803
12 Angola	209.459016393443
13 Uganda	43.8360810810811
14 Egypt	172.77067761007
15 Kyrgyzstan	127.6576
16 Mali	207.313255813954
17 India	761.4708151680514

The status bar at the bottom indicates "Query executed successfully." and "147 rows".

Q8. From which Category we have maximum and minimum sales?

ANS SELECT Category Max(Sales) As Maximum_Sales, MIN(Sales) AS Minimum_Sales FROM orders GROUP BY Category;

The screenshot shows the Microsoft SQL Server Management Studio interface. The query editor contains the following SQL code:

```
--From which Category we have minimum and maximum Sales?  
SELECT Category, MAX(sales) AS Maximum_Sales, MIN(sales) AS Minimum_Sales From Orders GROUP BY Category
```

The Results pane displays the following data:

Category	Maximum_Sales	Minimum_Sales
Office Supplies	9092.74	0.444
Furniture	5759.964	1.892
Technology	22638.48	0.99

Q9. Name 10 Countries which have given priority while delivering the Product?

ANS SELECT Top 10 country , [order Priority] FROM Orders WHERE[Orders Priority]='High';

The screenshot shows the Microsoft SQL Server Management Studio interface. The query editor contains the following SQL code:

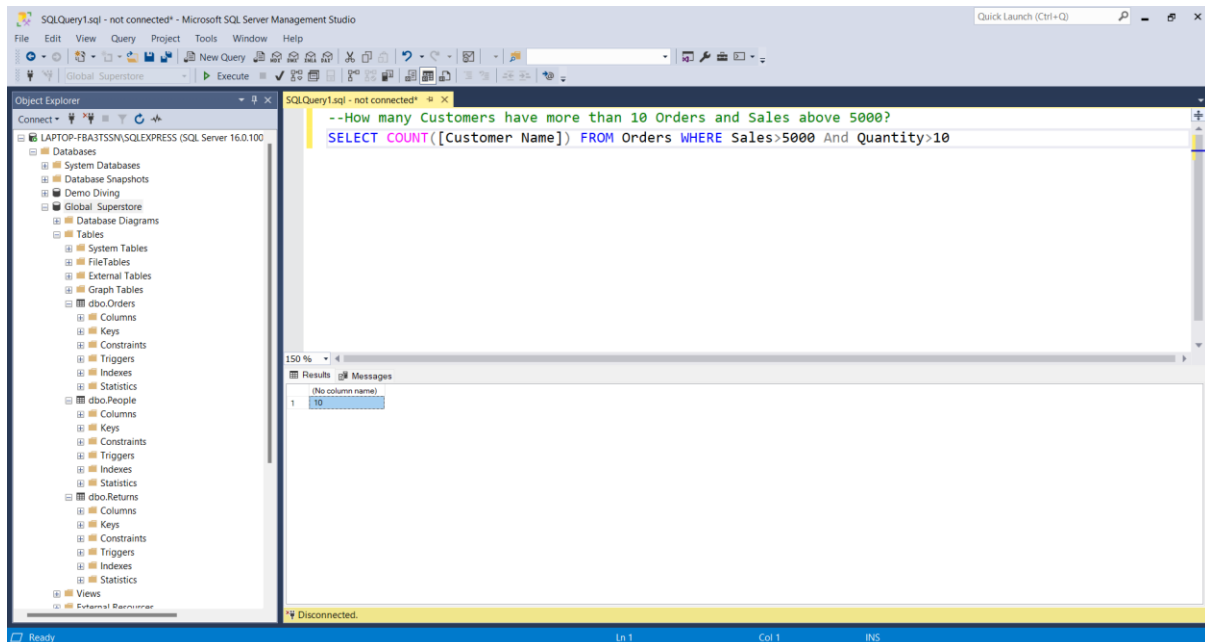
```
--Name 10 Countries which have given priority while delivering the product?  
--SELECT * FROM Orders  
SELECT TOP 10 Country, [Order Priority] FROM Orders where [Order Priority]= 'High'
```

The Results pane displays the following data:

Country	Order Priority
Philippines	High
United States	High
Australia	High
India	High
Germany	High
France	High
Philippines	High
Saudi Arabia	High
Nicaragua	High
Mexico	High

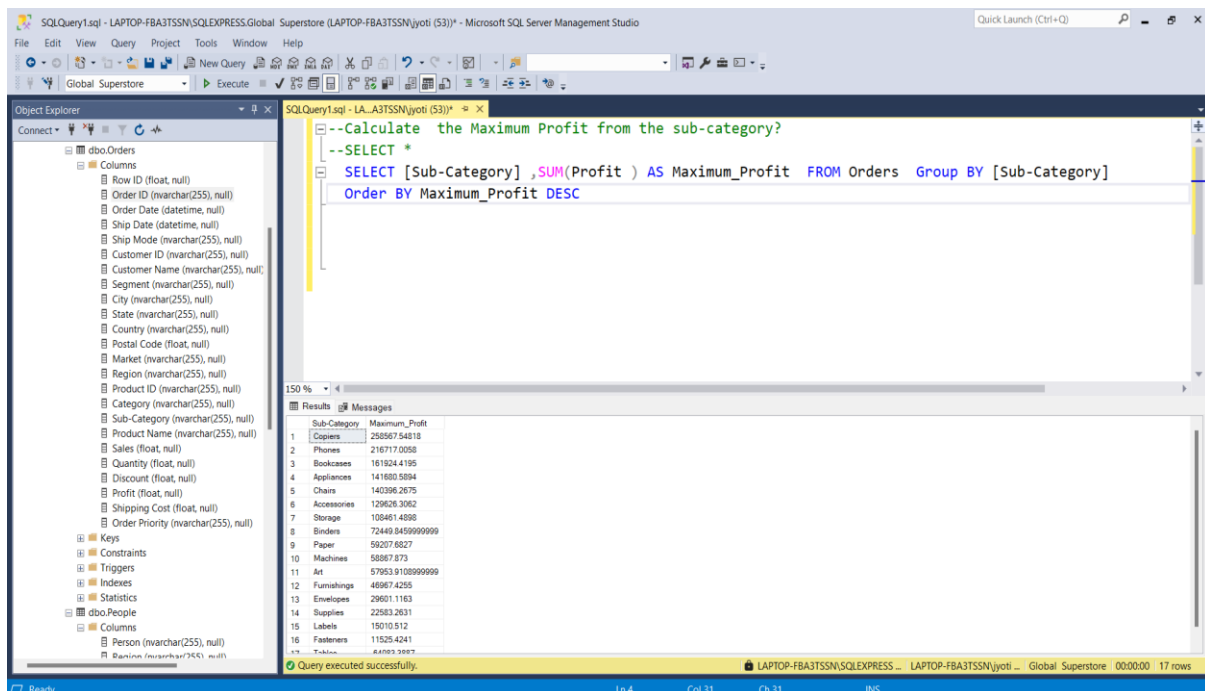
Q10. How many customers have more than 10 orders and sales above 5000 ?

ANS. SELECT COUNT ([Customer Name]) FROM orders WHERE Sales > 10;



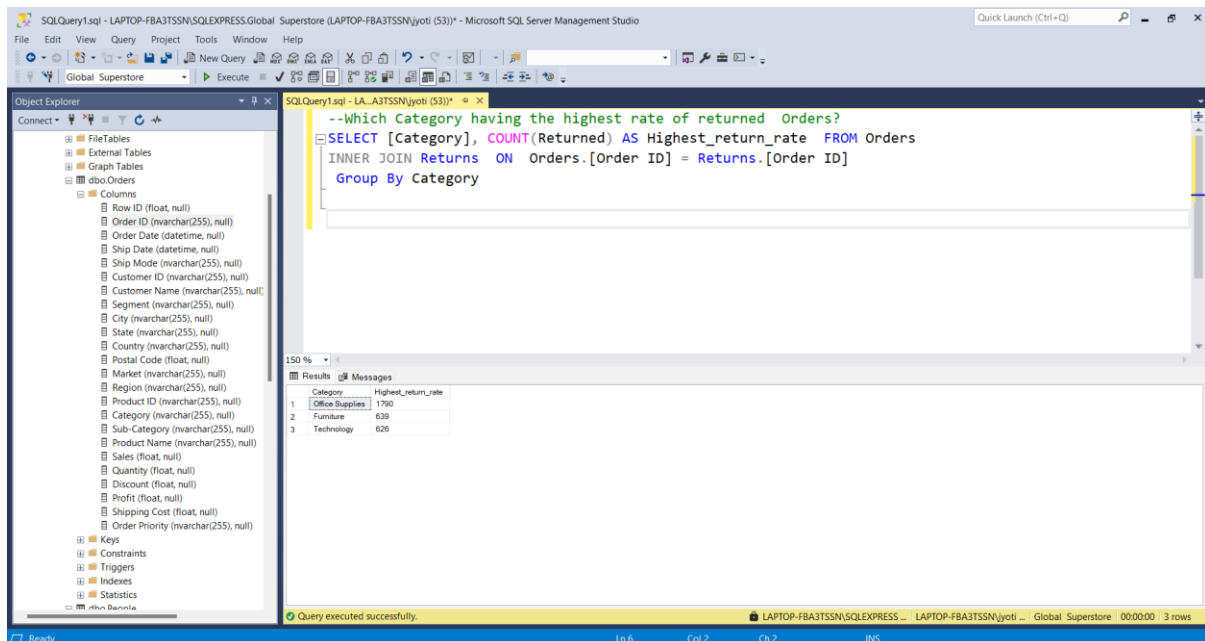
Q11. Calculate the Maximum Profit from the Sub- Category ?

ANS SELECT [Sub-Category], SUM (Profit) AS Maximim_Profit FROM orders GROUP BY [Sub-Category] ORDER BY Maximum_Profit DESC;



Q12. Which Category have the highest rate of returned orders ?

ANS. SELECT [Category],COUNT (returned) AS Highest_Returned_Rate FROM orders INNER JOIN Returns ON orders [Orders ID] =returns.[orders ID] GROUP BY Category;



The screenshot shows the Microsoft SQL Server Management Studio interface. The query editor contains the following SQL query:

```
--Which Category having the highest rate of returned Orders?  
SELECT [Category], COUNT(Returned) AS Highest_return_rate FROM Orders  
INNER JOIN Returns ON Orders.[Order ID] = Returns.[Order ID]  
Group By Category
```

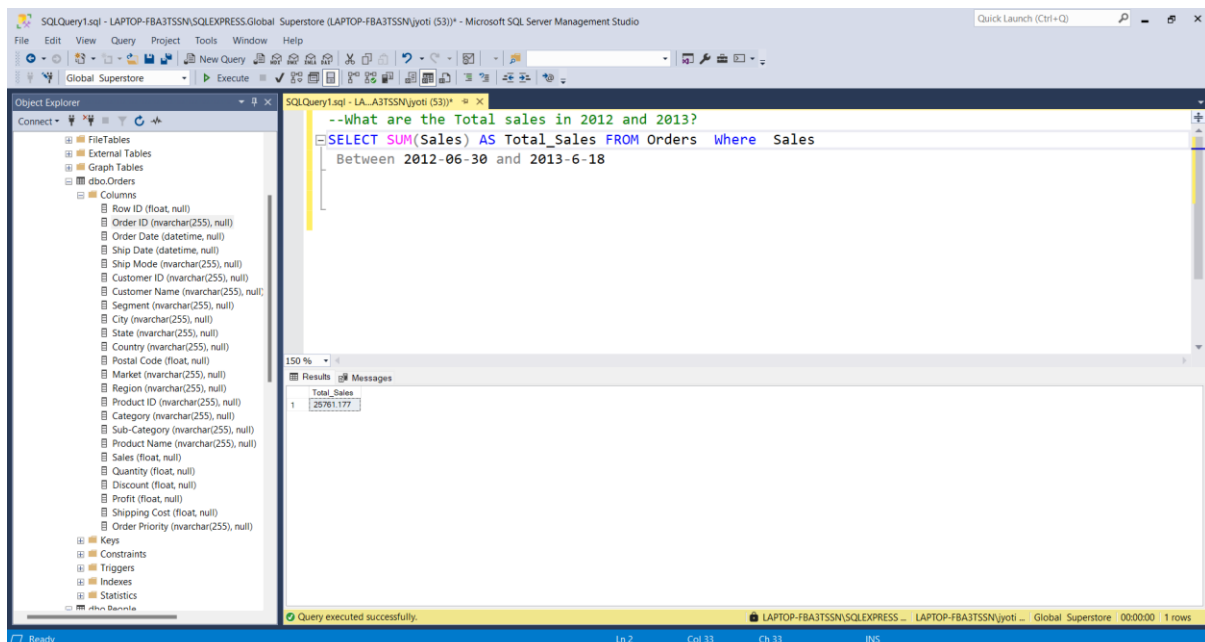
The Results pane displays the following data:

Category	Highest_return_rate
Office Supplies	1790
Furniture	639
Technology	626

The status bar at the bottom indicates "Query executed successfully." and "3 rows".

Q13.What are the Total Sales in 2012 and 2013 ?

ANS. SELECT SUM(Sales) AS Total_Sales FROM orders Where sales BETWEEN 2012-06-30 and 2013-06-18;



The screenshot shows the Microsoft SQL Server Management Studio interface. The query editor contains the following SQL query:

```
--What are the Total sales in 2012 and 2013?  
SELECT SUM(Sales) AS Total_Sales FROM Orders Where Sales  
Between 2012-06-30 and 2013-6-18
```

The Results pane displays the following data:

Total_Sales
29761.177

The status bar at the bottom indicates "Query executed successfully." and "1 rows".

Q14. From which 20 States we get the Maximum Profit?

ANS. SELECT Top 20 States, MAX(Profit) AS Maximum_Profit FROM Orders GROUP BY ;

The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left displays the database structure for 'LAPTOP-FBA3TSSN\SQLEXPRESS'. The main query window contains the following SQL code:

```
--From which 20 states we get the Maximum Profit?  
SELECT Top 20 State, MAX(Profit) AS Maximum_Profit FROM Orders GROUP BY State  
ORDER BY Maximum_Profit DESC
```

The Results pane shows the output of the query, listing the top 20 states by maximum profit:

State	Maximum_Profit
1 Indiana	8399.976
2 Washington	6719.9808
3 Delaware	5039.9856
4 Michigan	4845.37
5 Minnesota	4630.4755
6 Tuscany	3979.08
7 New York	3919.9888
8 Georgia	3177.475
9 Ghazale	2939.31
10 Chhattaggarh	2817.99
11 Virginia	2799.984
12 Meknes-Tafilalet	2597.28
13 Rhode Island	2591.9568
14 Galicia	2476.44
15 England	2461.32
16 Bay of Plenty	2447.1

Q15. Which Sub-Category have the lowest Shipping Cost ?

ANS. SELECT [Sub-Category] MIN (Shipping Cost) AS Lowest_Shipping_Cost FROM orders GROUP BY [Sub -Category] Orders BY Lowest_Shipping_Cost;

The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left displays the database structure for 'LAPTOP-FBA3TSSN\SQLEXPRESS'. The main query window contains the following SQL code:

```
--Which Sub-category have the Lowest Shipping Cost?  
--SELECT * FROM Orders  
SELECT [Sub-Category], MIN([Shipping Cost]) AS Lowest_shipping_Cost FROM Orders  
GROUP BY [Sub-Category] ORDER BY Lowest_shipping_Cost
```

The Results pane shows the output of the query, listing the sub-categories with the lowest shipping cost:

Sub-Category	Lowest_shipping_Cost
1 Paper	0.002
2 Binders	0.003
3 Envelopes	0.01
4 Fasteners	0.01
5 Appliances	0.01
6 Art	0.02
7 Labels	0.023
8 Furnishings	0.04
9 Accessories	0.04
10 Storage	0.04
11 Phones	0.05
12 Supplies	0.05
13 Chairs	0.074
14 Machines	0.1
15 Copiers	0.19
16 Tables	0.25

Q16. People having more than 5 orders and sales above 3000 ?

ANS. SELECT [Customer Name], Quantity, sales FROM orders WHERE Sales >3000 And Quantity >5 ORDER BY Sales;

The screenshot shows the Microsoft SQL Server Management Studio interface. The query editor contains the following SQL query:

```
--People having more than 5 Orders and Sales above 3000?  
SELECT [Customer Name],Quantity, sales FROM Orders WHERE Sales>3000 And Quantity>5 ORDER BY Sales
```

The Results pane displays the following data:

	Customer Name	Quantity	sales
1	Sean O'Donnell	6	3000.76
2	Zacharias Carroll	7	3018.824
3	Maria Theres	9	3023.928
4	Ricardo Emerson	9	3024.189
5	Jennifer Halladay	8	3028.8
6	Russell D'Acenzo	8	3029.28
7	Carol Triggs	8	3036.64
8	Mark Cousins	8	3040
9	Zacharias Carroll	8	3040.8
10	Sarah Brown	8	3044.8
11	Matthew Clasen	7	3045.84
12	Sarah Jordan	7	3045.84
13	Bobby Olegard	7	3045.84
14	Maureen Grady	7	3048.15
15	Darren Budd	11	3062.631
16	Chuck Sachs	7	3063.27
17	Shih-Ben Shih	7	3063.17

The status bar at the bottom indicates "Query executed successfully." and "182 rows".

Q17. Calculate the average sales market wise ?

ANS. SELECT Market, ROUND(AVG(Sales),2) AS Average_sales_Market FROM orders GROUP BY Market;

The screenshot shows the Microsoft SQL Server Management Studio interface. The query editor contains the following SQL query:

```
--Calculate the average sales market wise?  
SELECT Market, ROUND(AVG(Sales),2) AS Average_sales_Market FROM Orders GROUP BY Market
```

The Results pane displays the following data:

	Market	Average_sales_Market
1	EU	293.81
2	EMEA	160.3
3	Africa	170.87
4	LATAM	210.28
5	Canada	174.29
6	APAC	325.92
7	US	229.86

The status bar at the bottom indicates "Query executed successfully." and "7 rows".

Q18. Which top 10 Countries having Maximum Profit?

ANS. SELECT TOP 10 Country, MAX(Profit) AS Maximum_Profit FROM Orders GROUP BY Country ORDER BY Maximum_Profit DESC;

The screenshot shows the Microsoft SQL Server Management Studio interface. The query editor contains the following SQL code:

```
--Top 10 Countries having Maximum Profit?
SELECT TOP 10 Country, MAX(Profit) AS Maximum_Profit FROM Orders GROUP BY Country
ORDER BY Maximum_Profit DESC
```

The Results pane displays the following data:

Country	Maximum_Profit
United States	8399.976
Italy	3879.08
Japan	2939.31
India	2817.99
Morocco	2597.28
Spain	2476.44
United Kingdom	2461.32
New Zealand	2447.1
Australia	2316.51
France	1868.13

The status bar at the bottom indicates "Query executed successfully." and "10 rows".

Q19. From which 15 cities we get the least Profit?

ANS. SELECT Top 15 city, MIN(Profit) AS least_Profit FROM orders GROUP BY City Order BY least_Profit;

The screenshot shows the Microsoft SQL Server Management Studio interface. The query editor contains the following SQL code:

```
-- From which 15 cities we get the least Profit?
SELECT Top 15 City, MIN(profit) AS least_Profit FROM orders GROUP BY City Order BY least_Profit
```

The Results pane displays the following data:

City	least_Profit
Lancaster	-4599.976
Bornova	-4088.376
Burlington	-3839.9904
San Antonio	-3701.8929
Louisville	-3399.98
Lisbon	-3059.82
Lahore	-3009.435
Chicago	-2929.4845
Vilnius	-2750.28
Newark	-2639.9912
Houston	-2287.782
Bergen op Zoom	-2211.165
Stockholm	-1981.395
Hannover	-1824.542
Gaziantep	-1869.876

The status bar at the bottom indicates "Query executed successfully." and "15 rows".

Q20. How Many Customers are giving sales more than average?

ANS. `SELECT COUNT([Customer Name]) AS Total_Customers FROM Orders WHERE sales >= (SELECT AVG(Sales) FROM orders);`

The screenshot displays the Microsoft SQL Server Management Studio interface. The title bar indicates the connection to 'LAPTOP-FBA3TSSN\SQLEXPRESS:Global Superstore (LAPTOP-FBA3TSSN\jyoti (58))'. The 'Object Explorer' on the left shows the database structure, including 'Global Superstore' and its tables, with 'dbo.Orders' selected. The 'Query Editor' in the center contains the following SQL query:

```
--How many Customer are giving sales more than Average?  
SELECT COUNT([Customer Name]) AS Total_Customers FROM Orders  
WHERE Sales >=(SELECT AVG(sales) FROM Orders)
```

The 'Results' pane at the bottom shows the output of the query, which is a single row with the value 13055 under the column 'Total_Customers'. The status bar at the bottom indicates 'Query executed successfully.' and '1 rows'.

Total_Customers
13055