use indexing ;

-- Global Superstore Data Analysis using SQL

-- 1. Find the Total revenue, quantities and Profit generated.

-- 2. Find the Segment wise distribution of the Sales.

-- 3. Find the top 3 most profitable Products.

-- 4. How many orders are placed after January 2016.

-- 5. How many states from Mexico are under the roof of business?

-- 6. which products and subcategories are most and least profitable ?

-- 7. Which customer segment contributes the most to the total revenue?

-- 8. What is the year-over-year growth in sales and Profit?

-- 9. Which countries and cities are driving the highest sales?

-- 10. What is the average delivery time from order to ship date across regions?

-- 11. what is the profit distribution across order priority?

-- 12. Suggest data-driven recommendations for improving profit and reducing losses

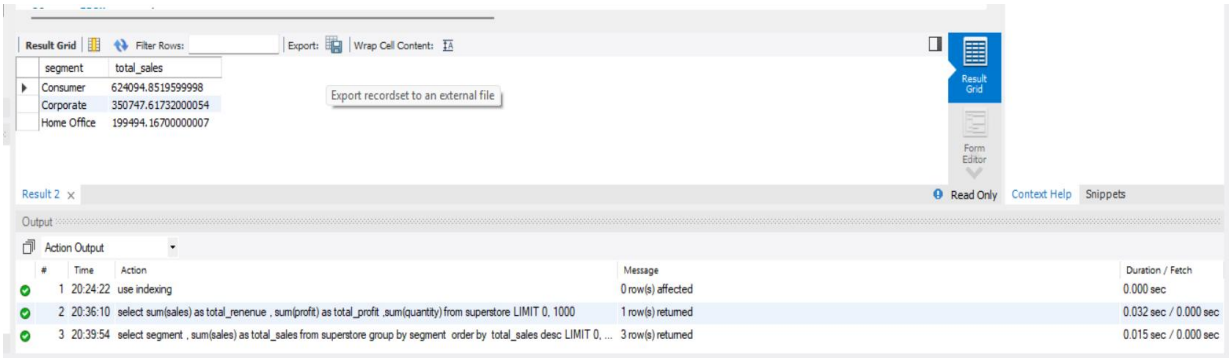
```
select * from superstore ;
```

-- 1. Find the Total revenue, quantities and Profit generated.

```
select sum(sales) as total_renenue , sum(profit) as total_profit ,sum(quantity)
from superstore ;
```

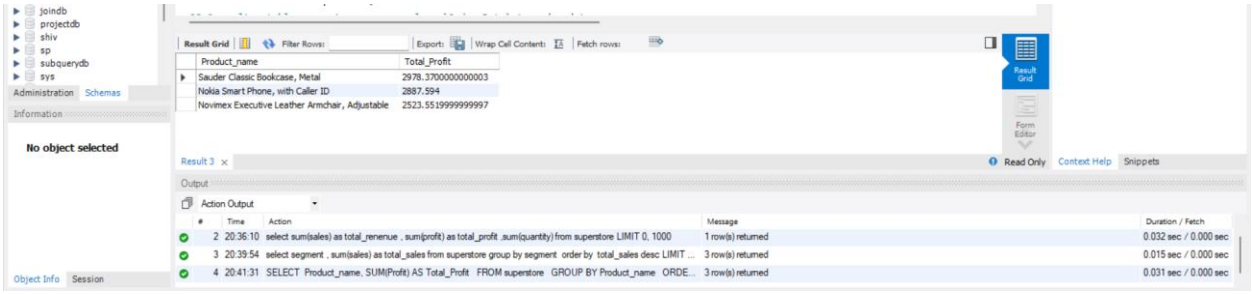
-- 2. Find the Segment wise distribution of the Sales.

```
select segment , sum(sales) as total_sales
from superstore
group by segment
order by  total_sales desc;
```



-- 3. Find the top 3 most profitable Products.

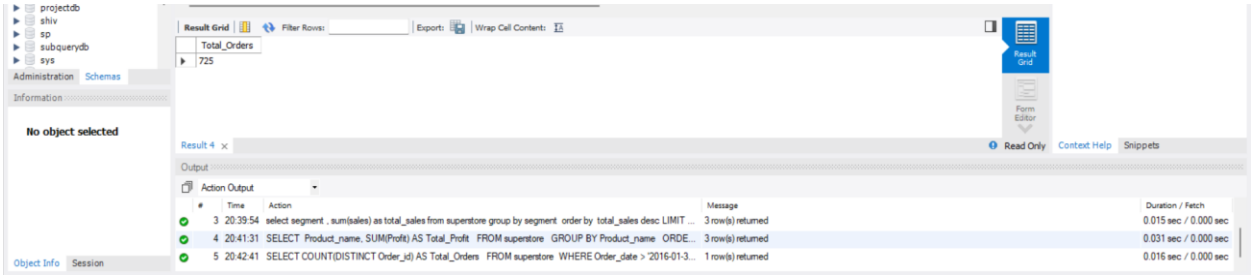
```
select * from superstore;

alter table superstore rename column `product name` to product_name ;

SELECT  Product_name, SUM(Profit) AS Total_Profit

FROM superstore

GROUP BY Product_name

ORDER BY Total_Profit DESC LIMIT 3;
```



-- 4. How many orders are placed after January 2016.

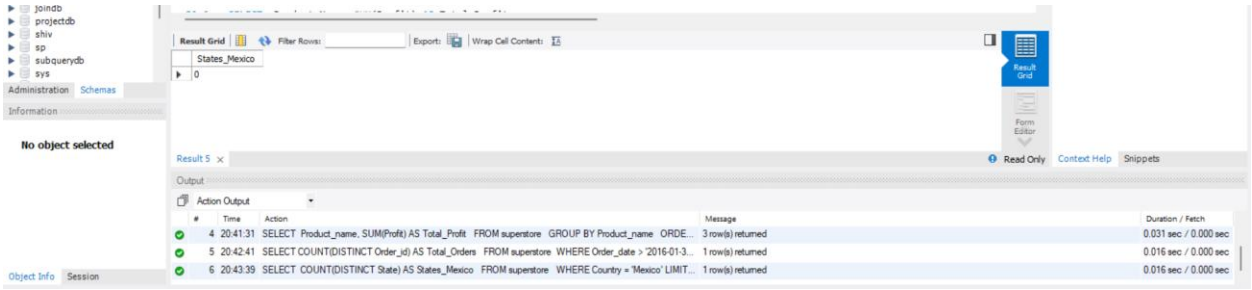
```
select * from superstore;

alter table superstore rename column `Order Date` to order_date ;

SELECT COUNT(DISTINCT Order_id) AS Total_Orders

FROM superstore
```

```
WHERE Order_date > '2016-01-31';
```



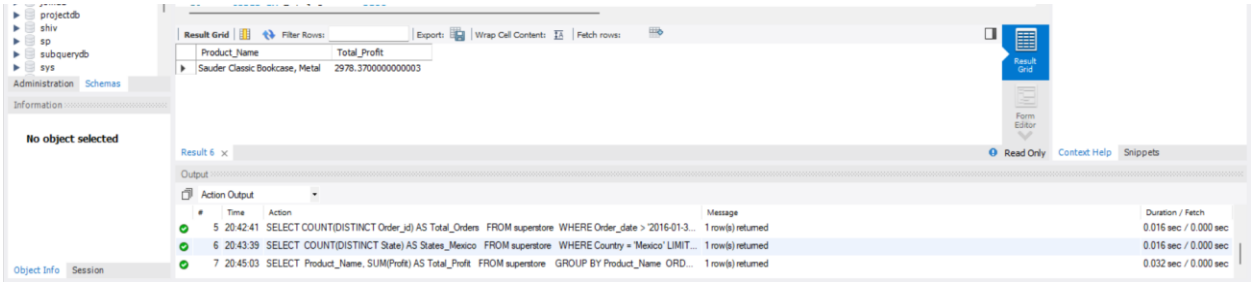
-- 5. How many states from Mexico are under the roof of business?

```
SELECT  COUNT(DISTINCT State) AS States_Mexico
FROM superstore
WHERE Country = 'Mexico';
```



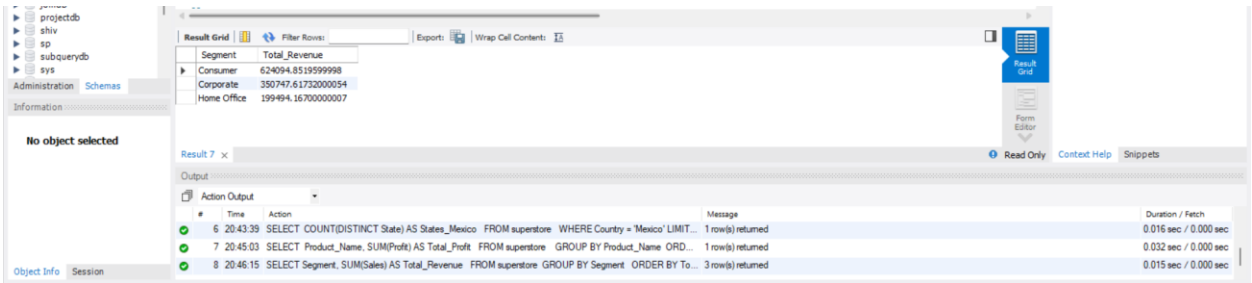
-- 6. which products and subcategories are most and least profitable ?

```
SELECT  Product_Name, SUM(Profit) AS Total_Profit
FROM superstore
GROUP BY Product_Name
ORDER BY Total_Profit desc limit 1;
```



-- 7. Which customer segment contributes the most to the total revenue?

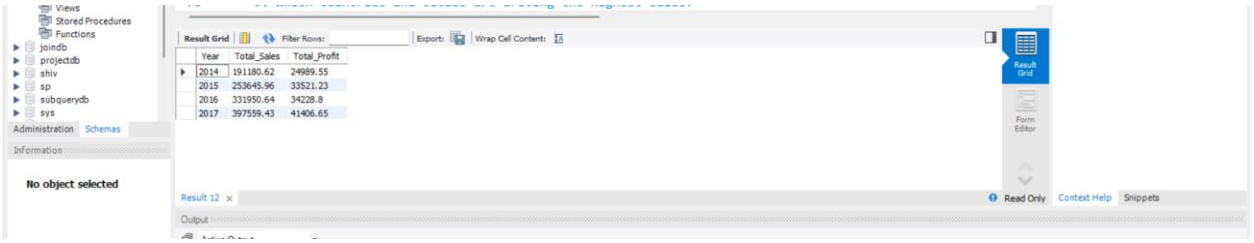
```
SELECT Segment, SUM(Sales) AS Total_Revenue
FROM superstore
GROUP BY Segment
ORDER BY Total_Revenue DESC ;
```



-- 8. What is the year-over-year growth in sales and Profit?

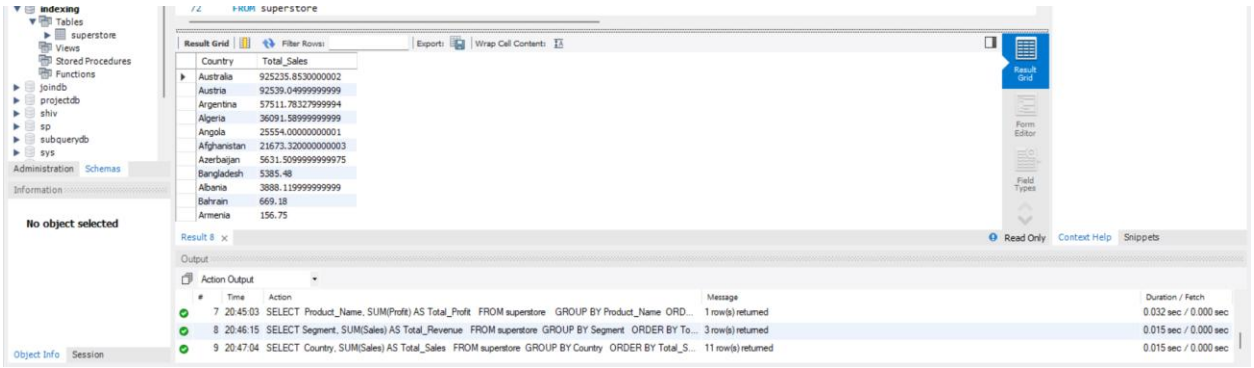
```
select * from superstore;
SELECT YEAR(STR_TO_DATE(Order_Date, '%d-%m-%Y')) AS Year,
ROUND(SUM(Sales), 2) AS Total_Sales,
ROUND(SUM(Profit), 2) AS Total_Profit
FROM superstore
```

```
GROUP BY Year
ORDER BY Year;
```



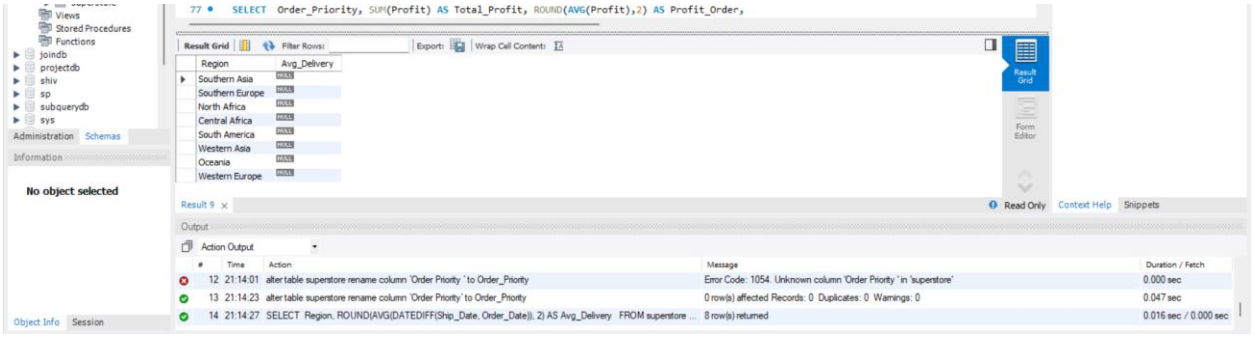
-- 9. Which countries and cities are driving the highest sales?

```
SELECT  Country, SUM(Sales) AS Total_Sales
FROM superstore
GROUP BY Country
ORDER BY Total_Sales DESC;
```



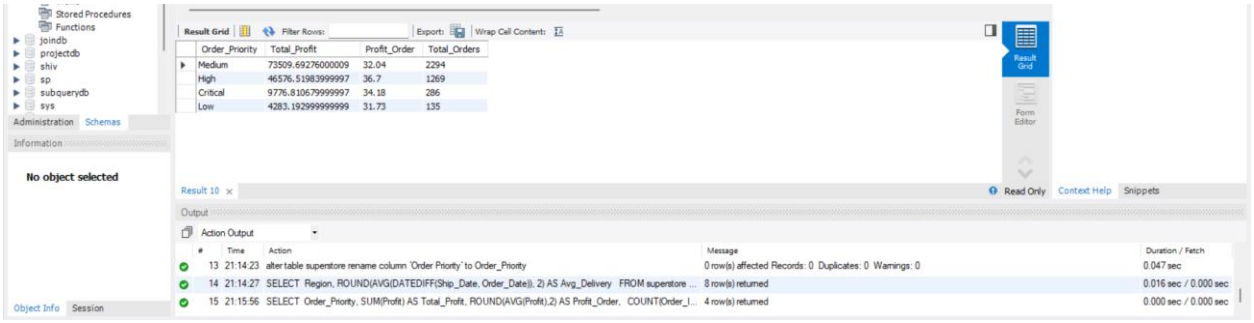
-- 10. What is the average delivery time from order to ship date across regions?

```
select * from superstore;
alter table superstore rename column `Order Priority ` to Order_Priority ;
SELECT  Region, ROUND(AVG(DATEDIFF(Ship_Date, Order_Date)), 2) AS Avg_Delivery
FROM superstore
GROUP BY Region
ORDER BY Avg_Delivery;
```



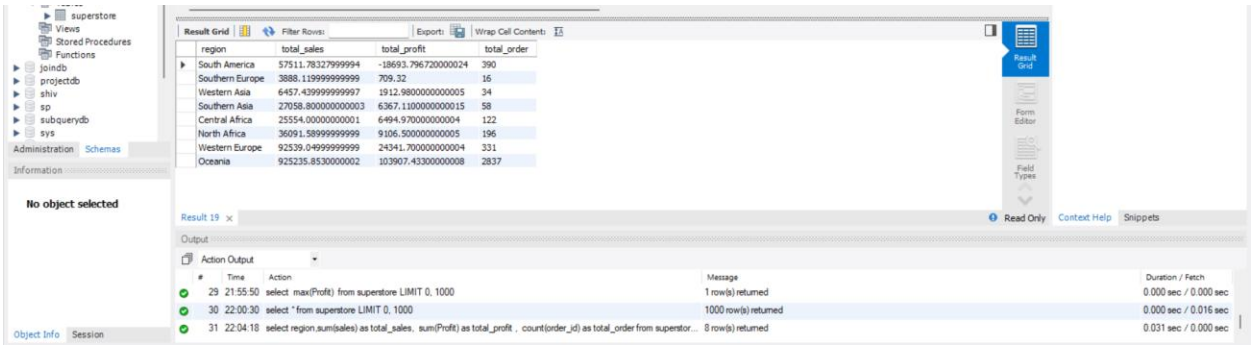
-- 11. what is the profit distribution across order priority?

```
alter table superstore rename column `ship Date` to ship_date ;

SELECT  Order_Priority, SUM(Profit) AS Total_Profit, ROUND(AVG(Profit),2) AS Profit_Order,

COUNT(Order_ID) AS Total_Orders

FROM superstore

GROUP BY Order_Priority

ORDER BY Total_Profit DESC;
```



-- 12. Suggest data-driven recommendations for improving profit and reducing losses

```
select * from superstore;

select region,sum(sales) as total_sales, sum(Profit) as total_profit ,

count(order_id) as total_order

from superstore

group by region

order by total_profit asc ;
```


superstore
Views
Stored Procedures
Functions
joindb
projectdb
shiv
sp
subquerydb
sys
Administration
Schemas
Information
No object selected
Object Info
Session
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
region | total_sales | total_profit | total_order
South America | 57511.78327999994 | -18693.796720000024 | 390
Southern Europe | 3888.119999999999 | 709.32 | 16
Western Asia | 6457.439999999997 | 1912.9800000000005 | 34
Southern Asia | 27058.800000000003 | 6367.1100000000015 | 58
Central Africa | 25554.000000000001 | 6494.9700000000004 | 122
North Africa | 36091.58999999999 | 9106.500000000005 | 196
Western Europe | 92539.04999999999 | 24341.700000000004 | 331
Oceania | 925235.8530000002 | 103907.43300000008 | 2837
Result 19
Read Only
Context Help
Snippets
Output
Action Output
| Time | Action | Message | Duration / Fetch
29 | 21:55:50 | select max(Profit) from superstore LIMIT 0, 1000 | 1 row(s) returned | 0.000 sec / 0.000 sec
30 | 22:00:30 | select * from superstore LIMIT 0, 1000 | 1000 row(s) returned | 0.000 sec / 0.016 sec
31 | 22:04:18 | select region,sum(sales) as total_sales, sum(Profit) as total_profit , count(order_id) as total_order from superstor... | 8 row(s) returned | 0.031 sec / 0.000 sec