Name: Srushti Awati

Batch: 15--Sep

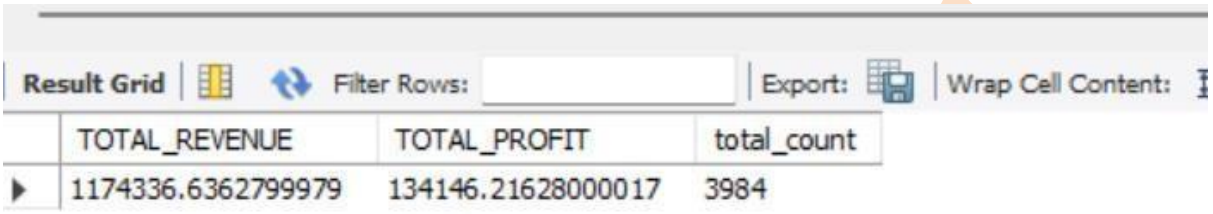
create database if not exists indexing;

use indexing;

1) Find the total revenue AND PROFIT generated

SELECT * FROM SUPERSTORE;

SELECT SUM(SALES) AS TOTAL_REVENUE, SUM(PROFIT) AS TOTAL_PROFIT FROM SUPERSTORE;

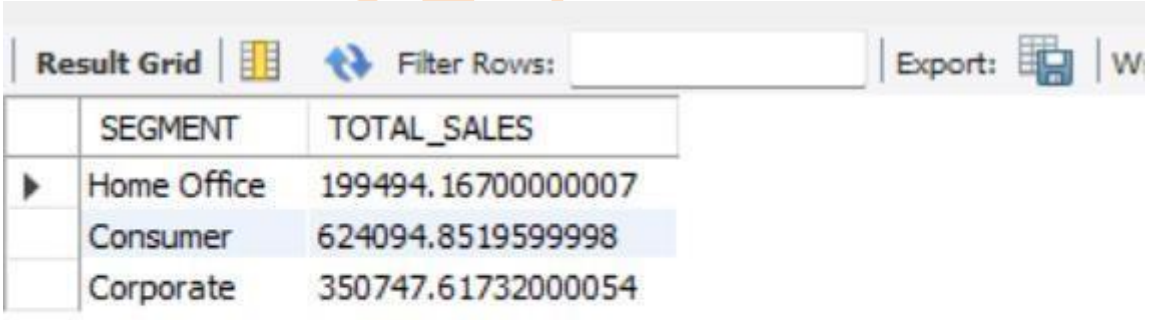


TOTAL_REVENUE	TOTAL_PROFIT	total_count
1174336.6362799979	134146.21628000017	3984

2) Find the segament wise distribution of the sales.

SELECT SEGMENT, SUM(SALES) AS TOTAL_SALES FROM SUPERSTORE

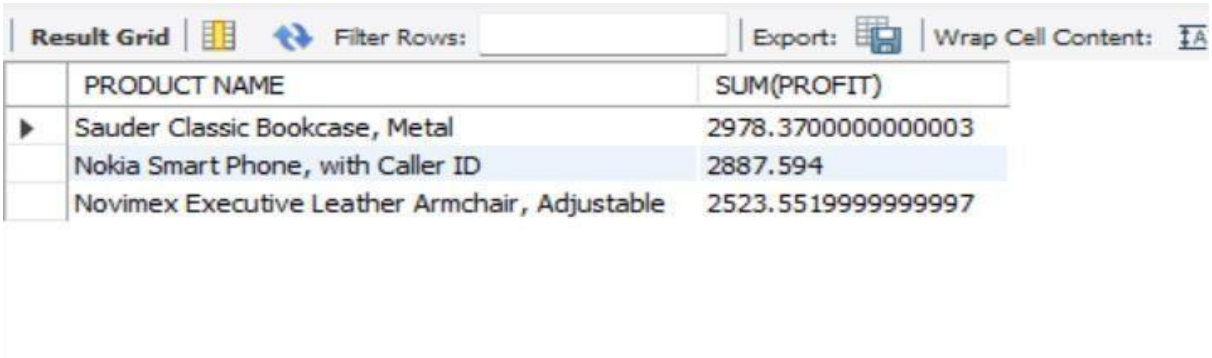
GROUP BY SEGMENT;



SEGMENT	TOTAL_SALES
Home Office	199494.16700000007
Consumer	624094.8519599998
Corporate	350747.61732000054

3) find the top 3 most profitable products

```
SELECT `PRODUCT NAME, SUM(PROFIT) FROM SUPERSTORE
GROUP BY `PRODUCT NAME`
ORDER BY SUM(PROFIT) DES
LIMIT 3;
```

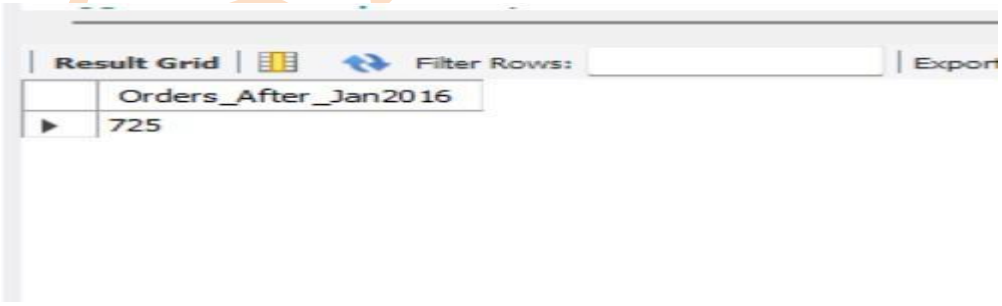


Result Grid | Filter Rows: | Export: | Wrap Cell Content:

PRODUCT NAME	SUM(PROFIT)
Sauder Classic Bookcase, Metal	2978.3700000000003
Nokia Smart Phone, with Caller ID	2887.594
Novimex Executive Leather Armchair, Adjustable	2523.5519999999997

4) find how many orders are placed after January 2016

```
SELECT
COUNT (DISTINCT `Order ID`) AS Orders_After_Jan2016
FROM superstore
WHERE `Order Date` > '2016-01-31';
```



Result Grid | Filter Rows: | Export

Orders_After_Jan2016
725

5) How many states from austria are under the roof of business?

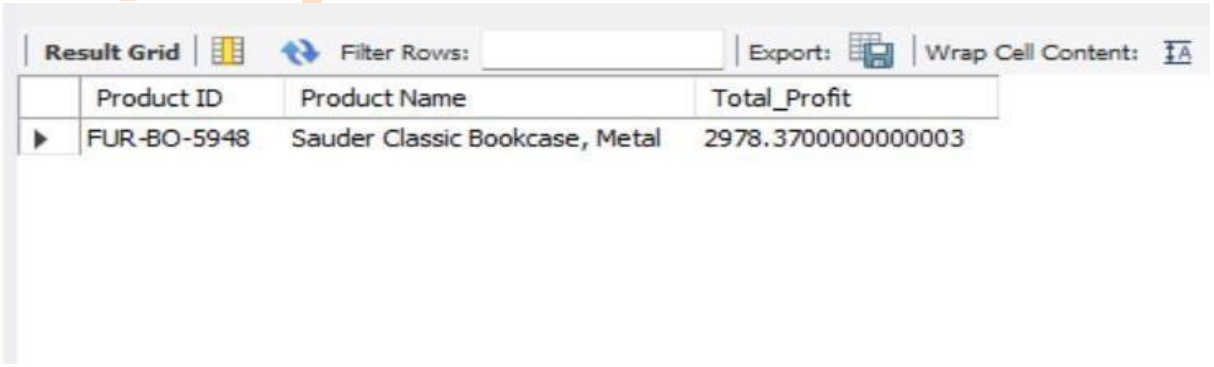
```
select country, count(state) from superstore
group by country
having country = 'austria';
```

Result Grid | Filter Rows:

country	count(state)
Austria	331

6) which products and subcategories are most and least profitable ?

```
-- Most profitable product
SELECT `Product ID`, `Product Name`, SUM(Profit) AS Total_Profit
FROM superstore
GROUP BY `Product ID`, `Product Name`
ORDER BY Total Profit DESC
LIMIT 1;
```

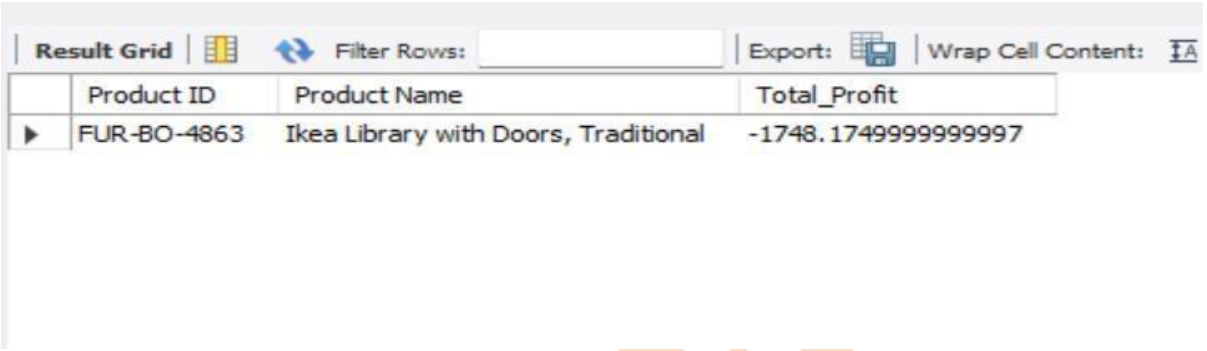


Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Product ID	Product Name	Total_Profit
FUR-BO-5948	Sauder Classic Bookcase, Metal	2978.3700000000003

-- Least profitable product

```
SELECT `Product ID`, `Product Name`, SUM(Profit) AS Total_Profit
FROM superstore
GROUP BY `Product ID`, `Product name`
ORDER BY Total_Profit ASC
LIMIT 1;
```

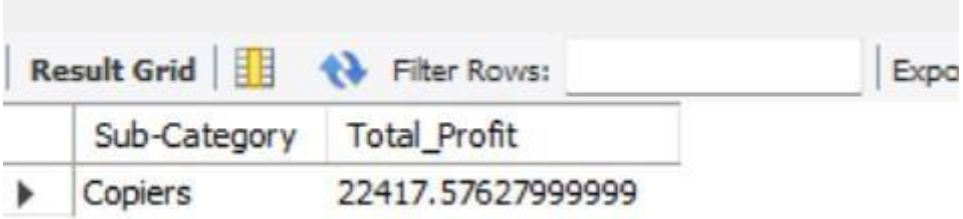


Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Product ID	Product Name	Total_Profit
FUR-BO-4863	Ikea Library with Doors, Traditional	-1748.1749999999997

-- Most profitable sub-category

```
SELECT Sub_Category, SUM(Profit) AS Total_Profit
FROM superstore
GROUP BY Sub_Category
ORDER BY Total_Profit DESC
LIMIT 1;
```

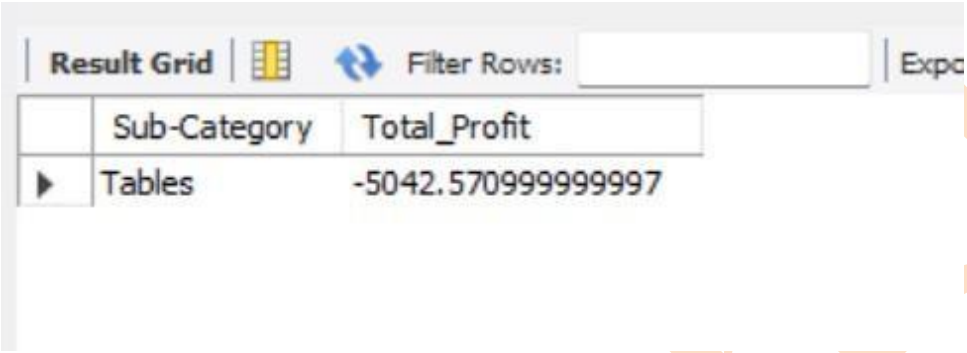


Result Grid | Filter Rows: | Expo

Sub-Category	Total_Profit
Copiers	22417.57627999999

-- Least profitable sub-category

```
SELECT Sub_Category, SUM(Profit) AS Total_Profit
FROM superstore
GROUP BY Sub_Category
ORDER BY Total_Profit ASC
LIMIT 1;
```

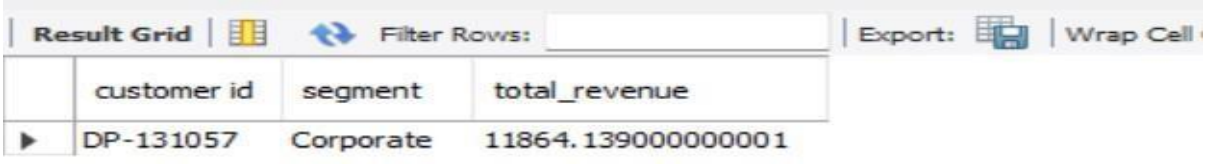


Result Grid | Filter Rows: | Expo

	Sub-Category	Total_Profit
▶	Tables	-5042.570999999997

7) Which customer segment contributes the most to the total revenue?

```
select * from superstore;
select `customer id`, segment , sum(sales) as total_revenue from superstore
group by segment, customer id
order by sum(sales) desc
limit 1;
```



Result Grid | Filter Rows: | Export: | Wrap Cell

	customer id	segment	total_revenue
▶	DP-131057	Corporate	11864.139000000001

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

```
select * from superstore;

select year('order date'),sum(sales),sum(profit)

from superstore

group by year ('order date');
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

	year(`order date`)	sum(sales)	sum(profit)
▶	NULL	1174336.6362799979	134146.21628000017

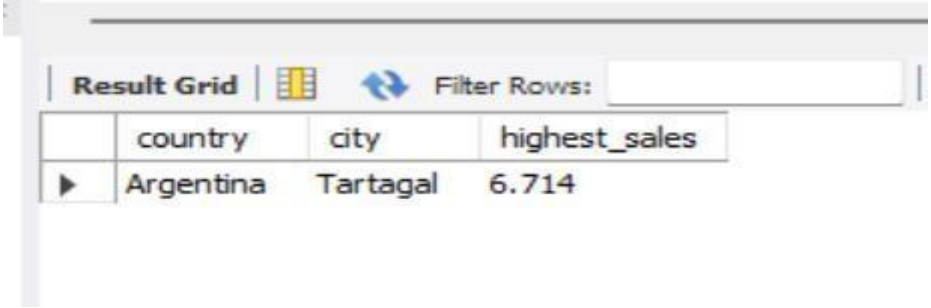
9) Which countries and cities are driving the highest sales?

```
select country, city, sum(sales) as highest_sales from

superstore group by country, city

order by sum(sales)

limit 1;
```



Result Grid | Filter Rows:

	country	city	highest_sales
▶	Argentina	Tartagal	6.714

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

```
SELECT
Region,
AVG('Ship Date'-'Order Date') AS Avg_Days
FROM superstore
WHERE `Ship Date IS NOT NULL AND `Order Date` IS NOT NULL
GROUP BY Region
ORDER BY Avg_Days;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content

Region	Avg_Days
Southern Europe	-4.125
Western Asia	-1.9411764705882353
Western Europe	-0.6072507552870091
North Africa	-0.5306122448979592
Central Africa	-0.32786885245901637
Oceania	-0.031723651744800845
South America	0.2
Southern Asia	0.3448275862068966

11) what is the profit distribution across order priority?

```
Select
'ORDER PRIORITY', sum(profit) AS PROFIT_DISTRIBUTION from superstore
GROUP BY 'ORDER PRIORITY';
```

Result Grid | Filter Rows: | Export:

ORDER PRIORITY	PROFIT_DISTRIBUTION
Medium	73509.69276000009
High	46576.51983999997
Low	4283.192999999999
Critical	9776.810679999997

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

```
SELEC 'Ship Mode',

SUM ('Shipping Cost') AS      Total_Shipping_Cost,
SUM(Sales) AS Total_Sales,
SUM(Profit) AS Total_Profit,

ROUND (SUM (`Shipping Cost`) * 100.0 / NULLIF(SUM(Profit),0),2) AS Ship Cost_to_Profit_Ratio

FROM superstore

GROUP BY `Ship Mode`

ORDER BY Ship Cost_to_Profit_Ratio DESC;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Ship Mode	Total_Shipping_Cost	Total_Sales	Total_Profit	ShipCost_to_Profit_Ratio
Same Day	11676.163000000002	64894.11863999999	5626.578639999996	207.52
First Class	26118.242999999995	153407.28676000008	16992.056759999992	153.71
Second Class	30743.19800000003	234902.79051999986	26582.180519999976	115.65
Standard Class	58735.41800000002	721132.4403599986	84945.40036000012	69.14