

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\_revenue , sum(profit) as total\_profit ,sum(quantity)  
from superstore ;



	total_revenue	total_profit	sum(quantity)
▶	1174336.6362799979	134146.21628000017	14452

-- 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;

Result Grid		Filter Rows:	Export:	Wrap Cell Content:		
segment	total_sales					
Consumer	624094.8519599998					
Corporate	350747.61732000054					
Home Office	199494.16700000007					

Export recordset to an external file

Result 2 x

Output

#	Time	Action	Message	Duration / Fetch
1	20:24:22	use indexing	0 row(s) affected	0.000 sec
2	20:36:10	select sum(sales) as total_revenue , sum(profit) as total_profit ,sum(quantity) from superstore LIMIT 0, 1000	1 row(s) returned	0.032 sec / 0.000 sec
3	20:39:54	select segment , sum(sales) as total_sales from superstore group by segment order by total_sales desc LIMIT 0, ...	3 row(s) returned	0.015 sec / 0.000 sec

-- 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;
```

joindb	projectdb	shiv	sp	subquerydb	sys	Administration	Schemas	Information
No object selected								Object Info
Result Grid		Filter Rows:	Export:	Wrap Cell Content:				
Product_name	Total_Profit							
Sauder Classic Bookcase, Metal	2978.3700000000003							
Nokia Smart Phone, with Caller ID	2887.594							
Novimex Executive Leather Armchair, Adjustable	2523.5519999999997							

Result 3 x

Output

#	Time	Action	Message	Duration / Fetch
2	20:36:10	select sum(sales) as total_revenue , sum(profit) as total_profit ,sum(quantity) from superstore LIMIT 0, 1000	1 row(s) returned	0.032 sec / 0.000 sec
3	20:39:54	select segment , sum(sales) as total_sales from superstore group by segment order by total_sales desc LIMIT ...	3 row(s) returned	0.015 sec / 0.000 sec
4	20:41:31	SELECT Product_name, SUM(Profit) AS Total_Profit FROM superstore GROUP BY Product_name ORDE...	3 row(s) returned	0.031 sec / 0.000 sec

-- 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';

Result Grid: Total\_Orders, 725 rows

Result 4 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
3	20:39:54	select segment , sum(sales) as total_sales from superstore group by segment order by total_sales desc LIMIT ...	3 row(s) returned	0.015 sec / 0.000 sec
4	20:41:31	SELECT Product_name, SUM(Profit) AS Total_Profit FROM superstore GROUP BY Product_name ORDE...	3 row(s) returned	0.031 sec / 0.000 sec
5	20:42:41	SELECT COUNT(DISTINCT Order_id) AS Total_Orders FROM superstore WHERE Order_date > '2016-01-31...	1 row(s) returned	0.016 sec / 0.000 sec

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

SELECT COUNT(DISTINCT State) AS States\_Mexico

FROM superstore

WHERE Country = 'Mexico';

Result Grid: States\_Mexico, 0 rows

Result 5 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
4	20:41:31	SELECT Product_name, SUM(Profit) AS Total_Profit FROM superstore GROUP BY Product_name ORDE...	3 row(s) returned	0.031 sec / 0.000 sec
5	20:42:41	SELECT COUNT(DISTINCT Order_id) AS Total_Orders FROM superstore WHERE Order_date > '2016-01-31...	1 row(s) returned	0.016 sec / 0.000 sec
6	20:43:39	SELECT COUNT(DISTINCT State) AS States_Mexico FROM superstore WHERE Country = 'Mexico' LIMIT...	1 row(s) returned	0.016 sec / 0.000 sec

-- 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;

Product_Name	Total_Profit
Sauder Classic Bookcase, Metal	2978.370000000003

#	Time	Action	Message	Duration / Fetch
5	20:42:41	SELECT COUNT(DISTINCT Order_id) AS Total_Orders FROM superstore WHERE Order_date >= 2016-01-31	1 row(s) returned	0.016 sec / 0.000 sec
6	20:43:39	SELECT COUNT(DISTINCT State) AS States_Mexico FROM superstore WHERE Country = 'Mexico' LIMIT 1	1 row(s) returned	0.016 sec / 0.000 sec
7	20:45:03	SELECT Product_Name, SUM(Profit) AS Total_Profit FROM superstore GROUP BY Product_Name ORDER BY Total_Profit DESC	1 row(s) returned	0.032 sec / 0.000 sec

-- 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 ;

Segment	Total_Revenue
Consumer	624094.8519999998
Corporate	350747.61732000054
Home Office	199494.16700000007

#	Time	Action	Message	Duration / Fetch
6	20:43:39	SELECT COUNT(DISTINCT State) AS States_Mexico FROM superstore WHERE Country = 'Mexico' LIMIT 1	1 row(s) returned	0.016 sec / 0.000 sec
7	20:45:03	SELECT Product_Name, SUM(Profit) AS Total_Profit FROM superstore GROUP BY Product_Name ORDER BY Total_Profit DESC	1 row(s) returned	0.032 sec / 0.000 sec
8	20:46:15	SELECT Segment, SUM(Sales) AS Total_Revenue FROM superstore GROUP BY Segment ORDER BY Total_Revenue DESC	3 row(s) returned	0.015 sec / 0.000 sec

-- 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,

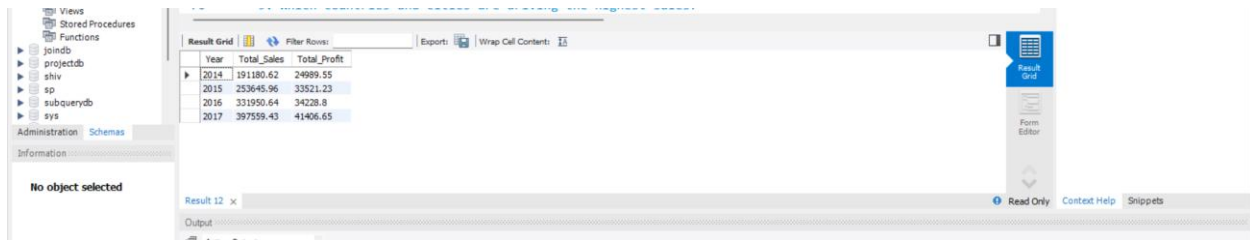
ROUND(SUM(Sales), 2) AS Total\_Sales,

ROUND(SUM(Profit), 2) AS Total\_Profit

FROM superstore

GROUP BY Year

ORDER BY Year;



Year	Total_Sales	Total_Profit
2014	191180.62	24989.55
2015	253645.96	33521.23
2016	331950.64	34228.8
2017	397559.43	41406.65

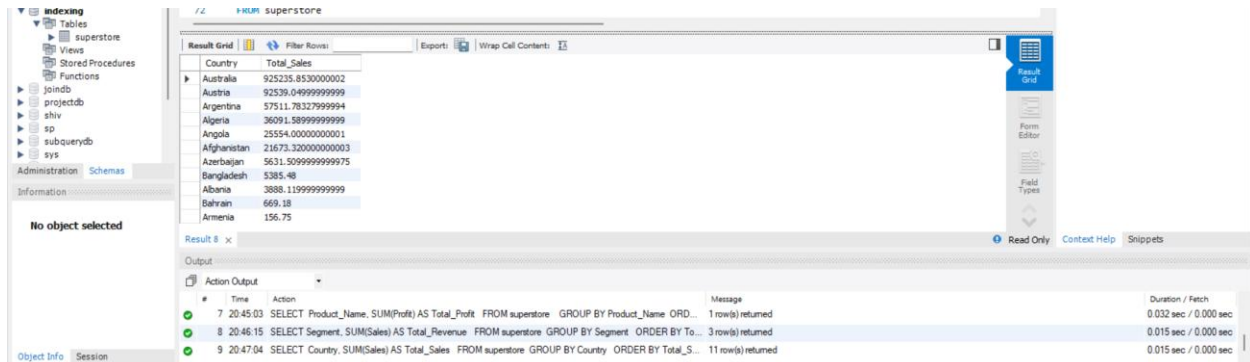
-- 9. Which countries and cities are driving the highest sales?

SELECT Country, SUM(Sales) AS Total\_Sales

FROM superstore

GROUP BY Country

ORDER BY Total\_Sales DESC;



Country	Total_Sales
Australia	925235.8530000002
Austria	92539.04999999999
Argentina	57511.763279999994
Algeria	36091.58999999999
Angola	25554.00000000001
Afghanistan	21673.320000000003
Azerbaijan	5631.5099999999975
Bangladesh	5385.48
Albania	3888.119999999999
Bahrain	669.18
Armenia	156.75

#	Time	Action	Message	Duration / Fresh
7	20:45:03	SELECT Product_Name, SUM(Profit) AS Total_Profit FROM superstore GROUP BY Product_Name ORDER BY Total_Profit DESC	1 row(s) returned	0.032 sec / 0.000 sec
8	20:46:15	SELECT Segment, SUM(Sales) AS Total_Revenue FROM superstore GROUP BY Segment ORDER BY Total_Revenue DESC	3 row(s) returned	0.015 sec / 0.000 sec
9	20:47:04	SELECT Country, SUM(Sales) AS Total_Sales FROM superstore GROUP BY Country ORDER BY Total_Sales DESC	11 row(s) returned	0.015 sec / 0.000 sec

-- 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;

77 • SELECT Order\_Priority, SUM(Profit) AS Total\_Profit, ROUND(AVG(Profit),2) AS Profit\_Order,

Region	Avg_Delivery
Southern Asia	0.00
Southern Europe	0.00
North Africa	0.00
Central Africa	0.00
South America	0.00
Western Asia	0.00
Oceania	0.00
Western Europe	0.00

Result 9 x

Output

#	Time	Action	Message	Duration / Fetch
12	21:14:01	alter table superstore rename column 'Order_Priority' to Order_Priority	Error Code: 1054. Unknown column 'Order_Priority' in 'superstore'	0.000 sec
13	21:14:23	alter table superstore rename column 'Order_Priority' to Order_Priority	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.047 sec
14	21:14:27	SELECT Region, ROUND(AVG(DATEDIFF(Ship_Date, Order_Date)), 2) AS Avg_Delivery FROM superstore ...	8 row(s) returned	0.016 sec / 0.000 sec

-- 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;

Result 10 x

Order_Priority	Total_Profit	Profit_Order	Total_Orders
Medium	73509.692765000009	32.04	2294
High	46576.519839999997	36.7	1269
Critical	9776.810679999997	34.18	286
Low	4283.192999999999	31.73	135

Output

#	Time	Action	Message	Duration / Fetch
13	21:14:23	alter table superstore rename column 'Order_Priority' to Order_Priority	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.047 sec
14	21:14:27	SELECT Region, ROUND(AVG(DATEDIFF(Ship_Date, Order_Date)), 2) AS Avg_Delivery FROM superstore ...	8 row(s) returned	0.016 sec / 0.000 sec
15	21:15:56	SELECT Order_Priority, SUM(Profit) AS Total_Profit, ROUND(AVG(Profit),2) AS Profit_Order, COUNT(Order_ID) AS Total_Orders FROM superstore	4 row(s) returned	0.000 sec / 0.000 sec

-- 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

No object selected

Result Grid

Filter Rows

Export

Wrap Cell Content

region	total_sales	total_profit	total_order
South America	57511.78327999994	-18693.796720000024	390
Southern Europe	3888.1199999999999	709.32	16
Western Asia	6457.4399999999997	1912.9800000000005	34
Southern Asia	27058.800000000003	6367.1100000000015	58
Central Africa	25554.000000000001	6494.9700000000004	122
North Africa	36091.389999999999	9106.3000000000005	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 superstore	8 row(s) returned	0.031 sec / 0.000 sec

Object Info

Session