

GLOBAL SUPERSTORE DATA ANALYSIS USING SQL

1. FIND THE TOTAL REVENUE GENERATED

```
SELECT  
    SUM(Sales) AS Total_Revenue  
FROM  
    SUPERSTORE;
```

Total_Revenue
1174336.6362799979

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: _____ | Ex

	Segment	Total_Sales
▶	Consumer	624094.8519599998
	Corporate	350747.61732000054
	Home Office	199494.16700000007

3. FIND THE TOP 3 MOST PROFITABLE PRODUCT

SELECT

'Product NAME',
SUM(Profit) AS Total_Profit

FROM

SUPERSTORE

GROUP BY

'Product NAME'

ORDER BY

Total_Profit DESC

LIMIT 3;

Result Grid | Filter Rows: _____

	Product NAME	Total_Profit
▶	Product NAME	134146.21628000017

4. HOW MANY ORDERS ARE PLACED AFTER JANUARY 2016 SELECT

```
COUNT(DISTINCT 'Order ID') AS Orders_After_Jan_2016  
FROM  
SUPERSTORE  
WHERE  
'Order Date' > '2016-01-31';
```

Result Grid Filter Rows:	
	Orders_After_Jan_2016
▶	1

5. HOW MANY STATES FROM MEXICO ARE UNDER THE ROOF OF BUSINESS

```
SELECT  
COUNT(DISTINCT State) AS Total_States_In_Mexico  
FROM  
SUPERSTORE  
WHERE  
Country = 'AUSTRIA';
```

Result Grid	
	Total_States
▶	6

6. WHICH PRODUCT AND SUBCATEGORIES ARE MOST AND LEAST PROFITABLE

```
(SELECT  
    `Product Name`, `Sub-Category`,  
    SUM(Profit) AS Total_Profit  
FROM  
    SUPERSTORE  
GROUP BY  
    `Product Name`, `Sub-Category`  
ORDER BY  
    Total_Profit DESC  
LIMIT 1)
```

union all
(

```
SELECT  
    `Product Name`, `Sub-Category`,  
    SUM(Profit) AS Total_Profit  
FROM  
    SUPERSTORE  
GROUP BY  
    `Product Name`, `Sub-Category`  
ORDER BY  
    Total_Profit ASC  
LIMIT 1);
```

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

Product Name	Sub-Category	Total_Profit
Sauder Classic Bookcase, Metal	Bookcases	2978.3700000000003
Ikea Library with Doors, Traditional	Bookcases	-1748.174999999997

7. WHICH CUSTOMER SEGMENT CONTRIBUTE THE MOST TO THE TOTAL REVENUE

SELECT

Segment,

SUM(Sales) AS Total_Revenue

FROM

SUPERSTORE

GROUP BY

Segment

ORDER BY

Total_Revenue DESC

LIMIT 1;

Result Grid | Filter Rows:

Segment	Total_Revenue
Consumer	624094.8519599998

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

SELECT

```

YEAR(`Order Date`) as year ,
SUM(Sales) AS Total_Sales,
SUM(Profit) AS Total_Profit,
ROUND(
  (SUM(Sales) - LAG(SUM(Sales)) OVER (ORDER BY YEAR(`Order Date`))))
  * 1000, 2
) AS Sales_Growth_Percent,
ROUND(
  (SUM(Profit) - LAG(SUM(Profit)) OVER (ORDER BY YEAR(`Order Date`))))
  / NULLIF(LAG(SUM(Profit)) OVER (ORDER BY YEAR(`Order Date`))), 2) * 1000, 2
) AS Profit_Growth_Percent
FROM superstore
GROUP BY YEAR(`Order Date`)
ORDER BY Year(`Order Date`);
```

	year	Total_Sales	Total_Profit	Sales_Growth_Percent	Profit_Growth_Percent
▶	NULL	1174336.6362799979	134146.21628000017	NULL	NULL

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

SELECT

Country,

City,

```
SUM(Sales) AS Total_Sales
```

```
FROM
```

```
superstore
```

```
GROUP BY
```

```
Country, City
```

```
ORDER BY
```

```
Total_Sales DESC;
```

	Country	City	Total_Sales
	Australia	Melbourne	73843.54799999994
	Australia	Gold Coast	72626.92200000005
	Australia	Perth	64292.20199999997
	Austria	Vienna	62023.53000000002
	Australia	Adelaide	57896.71199999999
	Australia	Newcastle	46055.09399999999
	Australia	Wollongong	42247.185
	Australia	Canberra	33162.81
	Australia	Geelong	30997.026000000023
	Argentina	Buenos Aires	28576.474439999984
	Australia	Caloundra	17542.881

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

```
SELECT
```

```
Region,
```

```
ROUND(AVG(DATEDIFF('Ship Date', 'Order Date')), 2) AS Avg_Days
```

```
FROM
```

SUPERSTORE

GROUP BY

Region

ORDER BY

Avg_Days ASC;

Region	Avg_Day
Southern Asia	NULL
Southern Europe	NULL
North Africa	NULL
Central Africa	NULL
South America	NULL
Western Asia	NULL
Oceania	NULL
Western Europe	NULL

11. what is the profit distribution across order priority?

SELECT

`Order Priority`,

SUM(Profit) AS Total_Profit,

ROUND(AVG(Profit), 2) AS Avg_Profit,

ROUND(SUM(Profit) * 100.0 / (SELECT SUM(Profit) FROM SUPERSTORE), 2) AS Percentage

FROM

SUPERSTORE

GROUP BY

`Order Priority`

ORDER BY

Total_Profit DESC;

The screenshot shows a database query results grid with the following columns: Order Priority, Total_Profit, Avg_Profit, and Percentage. The data is grouped by Order Priority (Medium, High, Critical, Low) and ordered by Total_Profit in descending order. The results are as follows:

	Order Priority	Total_Profit	Avg_Profit	Percentage
▶	Medium	73509.69276000009	32.04	54.8
	High	46576.51983999997	36.7	34.72
	Critical	9776.810679999997	34.18	7.29
	Low	4283.192999999999	31.73	3.19

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

SELECT

'Category',

'Sub-Category',

'Product Name',

SUM(Sales) AS Total_Sales,

SUM(Profit) AS Total_Profit,

AVG(Discount) AS Avg_Discount

FROM superstore

GROUP BY 'Category', 'Sub-Category' , 'Product Name'

HAVING SUM(Profit) < 5 OR SUM(Profit) < 5.05 * SUM(Sales)

ORDER BY Total_Profit ASC;

	Category	Sub-Category	Product Name	Total_Sales	Total_Profit	Avg_Discount
▶	Furniture	Bookcases	Ikea Library with Doors, Traditional	6359.324999999999	-1748.174999999997	0.0000
	Technology	Machines	Panasonic Inkjet, Red	2226.528	-1410.192	0.0000
	Furniture	Tables	Chromcraft Conference Table, with Bottom Stor...	2356.209	-1335.291	0.5000
	Furniture	Tables	Bevis Wood Table, with Bottom Storage	3361.743	-1056.807	0.0000
	Furniture	Tables	Lesro Wood Table, Adjustable Height	2301.138	-953.442	0.0000
	Furniture	Bookcases	Safco Classic Bookcase, Pine	2768.8500000000004	-909.9	0.0000
	Furniture	Bookcases	Bush Library with Doors, Pine	2267.154	-872.886	0.0000
	Furniture	Tables	Chromcraft Round Table, Rectangular	464.67	-836.43	1.0000
	Furniture	Chairs	Office Star Executive Leather Armchair, Black	1682.748	-813.492	0.0000
	Furniture	Tables	Lesro Conference Table, Adjustable Height	515.862	-773.838	1.0000
	Furniture	Tables	Barricks Round Table, Adjustable Height	402.96	-725.36	1.0000
	Technology	Machines	Okidata Printer, Durable	1450.548	-652.752	0.0000
	Furniture	Tables	Chromcraft Round Table, Fully Assembled	2951.991	-632.799	0.0000
	Furniture	Chairs	Office Star Swivel Stool, Adjustable	3546.243	-630.207	0.0000
	Furniture	Chairs	Novimex Executive Leather Armchair, Black	8746.845	-624.915	0.0000