

GLOBAL SUPERSTORE DATA ANALYSIS USING SQL

1.FIND THE TOTAL REVENUE GENERATED

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



The screenshot shows a database interface with a 'Result Grid' tab selected. The grid contains one column labeled 'Total_Revenue' and one row with the value '1174336.6362799979'. Above the grid, there are icons for 'Filter Rows' and 'Export'.

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:
	Segment	Total_Sales
▶	Consumer	624094.8519599998
	Corporate	350747.61732000054
	Home Office	199494.16700000007

3. FIND THE TOP 3 MOST PROFITABLE PRODUCT

```

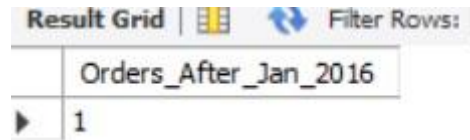
SELECT
    'Product NAME',
    SUM(Profit) AS Total_Profit
FROM
    SUPERSTORE
GROUP BY
    'Product NAME'
ORDER BY
    Total_Profit DESC
LIMIT 3;




```

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 BUSNISS

```
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	-1748.1749999999997	

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;

```

Result Grid			
Filter Rows:			
Export: Wrap Cell Content:			
	Country	City	Total_Sales
	Australia	Melbourne	73843.547999999994
	Australia	Gold Coast	72626.922000000005
	Australia	Perth	64292.201999999997
	Austria	Vienna	62023.530000000002
	Australia	Adelaide	57896.711999999999
	Australia	Newcastle	46055.093999999999
	Australia	Wollongong	42247.185
	Australia	Canberra	33162.81
	Australia	Geelong	30997.0260000000023
	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;

Result Grid			Filter Rows:
	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;

	Order Priority	Total_Profit	Avg_Profit	Percentage
▶	Medium	73509.69276000009	32.04	54.8
	High	46576.519839999997	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;

Result Grid						
		Filter Rows:		Export:	Wrap Cell Content:	Fetch rows:
	Category	Sub-Category	Product Name	Total_Sales	Total_Profit	Avg_Discount
►	Furniture	Bookcases	Ikea Library with Doors, Traditional	6359.324999999999	-1748.1749999999997	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