

## Global Superstore Data Analysis using SQL

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

```
SELECT  
SUM(Sales) AS Total_Revenue,  
SUM(Quantity) AS Total_Quantity FROM  
superstore;
```

#### Output:-

Result Grid

Filter Rows:

Export:

Wrap Cell Content:



	Total_Revenue	Total_Quantity
▶	1180074.466279998	14525


### 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;
```

#### Output:-

Result Grid



Filter Rows:

Export:


Wrap Cell Content:


	segment	total_sales
▶	Consumer	625958.8719599 625958.8719599998
	Corporate	354041.7073200005
	Home Office	200073.88700000005

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

```

SELECT
`Product Name` AS product_name,
ROUND(SUM(profit), 2) AS total_profit
FROM superstore
GROUP BY `Product Name`
ORDER BY total_profit DESC
LIMIT 3;

```

**Output:-**

Result Grid		Filter Rows:	Export:	Wrap Cell Content:	Fetch rows:
	product_name	total_profit			
▶	Sauder Classic Bookcase, Metal	2978.37			
	Nokia Smart Phone, with Caller ID	2887.59			
	Novimex Executive Leather Armchair, Adjustable	2523.55			

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

```

SELECT COUNT(*) AS total_orders_after_2016
FROM superstore
WHERE YEAR(`Order Date`) > '2016-12-31';

```

**Output:-**

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	total_orders_after_2016			
▶	0			

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

```




SELECT
COUNT(DISTINCT state) AS total_states_in_austria FROM
superstore
WHERE country = 'Austria';

```

Result Grid		Filter Rows:		Export:	Wrap Cell Content:
	total_states_in_austria				
▶	6				

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

```
(SELECT
`Sub-Category` AS sub_category,
`Product Name` AS product_name,
SUM(Profit) AS total_profit
FROM superstore
GROUP BY `Sub-Category`, `Product Name`
ORDER BY total_profit DESC
LIMIT 5
)
UNION ALL
(
SELECT
`Sub-Category` AS sub_category,
`Product Name` AS product_name,
SUM(Profit) AS total_profit
FROM superstore
GROUP BY `Sub-Category`, `Product Name`
ORDER BY total_profit ASC
LIMIT 5
);
```





Result Grid    Filter Rows: <input type="text"/>   Export:    Wrap Cell Content: 			
	sub_category	product_name	total_profit
▶	Bookcases	Sauder Classic Bookcase, Metal	2978.3700000000003
	Phones	Nokia Smart Phone, with Caller ID	2887.594
	Chairs	Novimex Executive Leather Armchair, Adjustable	2523.5519999999997
	Chairs	Hon Executive Leather Armchair, Adjustable	2410.2749999999996
	Copiers	Brother Copy Machine, Color	1963.362
	Bookcases	Ikea Library with Doors, Traditional	-1748.1749999999997
	Machines	Panasonic Inkjet, Red	-1410.192
	Tables	Chromcraft Conference Table, with Bottom Stor...	-1335.291
	Tables	Bevis Wood Table, with Bottom Storage	-1056.807
	Tables	Lesro Wood Table, Adjustable Height	-953.442

### 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
LIMIT 1;

```

Result Grid     Filter Rows: <input type="text"/>   Export:    Wrap Cell Content:    Fetch rows:				
	segment	total_revenue		
▶	Consumer	625958.8719599998		

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

```

SELECT
YEAR(`Order Date`) AS order_year,
ROUND(SUM(Sales), 2) AS total_sales,
ROUND(SUM(Profit), 2) AS total_profit,
ROUND(

```

```

SUM(Sales) - LAG(SUM(Sales)) OVER (ORDER BY YEAR(`Order Date`)),2) AS
sales_growth,

ROUND(

SUM(Profit) - LAG(SUM(Profit)) OVER (ORDER BY YEAR(`Order Date`)), 2

) AS profit_growth
FROM superstore
GROUP BY YEAR(`Order Date`)
ORDER BY order_year;

```

**Output:-**

Result Grid		Filter Rows:		Export:		Wrap Cell Content:	
	order_year	total_sales	total_profit	sales_growth	profit_growth		
	NULL	1180074.47	135448.37	NULL	NULL		

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;

```

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	country	total_sales
	Australia	925235.8530000002
	Austria	92539.04999999999
	Argentina	57511.78327999994
▶	Algeria	36091.58999999999
	Angola	25554.00000000001
	Afghanistan	21673.320000000003
	Bangladesh	11123.310000000003
	Azerbaijan	5631.5099999999975
	Albania	3888.1199999999999
	Bahrain	669.18





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

AVG(DATEDIFF('Ship Date', 'Order Date'))AS avg\_delivery\_days

FROM superstore

GROUP BY region

ORDER BY avg\_delivery\_days;

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

	region	avg_delivery_days
▶	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' AS order\_priority,

```

SUM(profit) AS total_profit,
AVG(profit) AS avg_profit_per_order
FROM superstore
GROUP BY `Order Priority`
ORDER BY total_profit DESC;

```

**Output:-**

Result Grid    Filter Rows: <input type="text"/>   Export:    Wrap Cell Content: 			
	order_priority	total_profit	avg_profit_per_order
▶	Medium	74585.22276000009	32.372058489583374
	High	46664.179839999997	36.685675974842745
	Critical	9800.990679999997	34.031217638888876
	Low	4397.972999999999	32.10199270072992



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

```

SELECT
    `Product Name`,
    `Sub-Category`,
    SUM(Profit)as Total_Profit
FROM superstore
GROUP BY `Product Name`, `Sub-Category`
HAVING SUM(Profit) < 0
ORDER BY Total_Profit ASC;

```

**Output:-**

Result Grid				Filter Rows: <input type="text"/>		Export: 	Wrap Cell Content: 
	Product Name	Sub-Category	Total_Profit				
▶	Ikea Library with Doors, Traditional	Bookcases	-1748.1749999999997				
	Panasonic Inkjet, Red	Machines	-1410.192				
	Chromcraft Conference Table, with Bottom Stor...	Tables	-1335.291				
	Bevis Wood Table, with Bottom Storage	Tables	-1056.807				
	Lesro Wood Table, Adjustable Height	Tables	-953.442				
	Safco Classic Bookcase, Pine	Bookcases	-909.9				
	Bush Library with Doors, Pine	Bookcases	-872.886				
	Chromcraft Round Table, Rectangular	Tables	-836.43				
	Office Star Executive Leather Armchair, Black	Chairs	-813.492				
	Lesro Conference Table, Adjustable Height	Tables	-773.838				