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**BATCH: DADS 15 SEP.2025**

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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(PROPIT) AS TOTAL_PROFIT FROM SUPERSTORE;
```

	TOTAL_REVENUE	TOTAL_PROFIT	total_count
▶	1174336.6362799979	134146.21628000017	3984

**-- 2.FIND THE SEGMENTWISE 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(PROPIT) FROM SUPERSTORE  
GROUP BY `PRODUCT NAME`  
ORDER BY SUM(PROPIT) DES  
LIMIT 3.
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	PRODUCT NAME	SUM(PROPIT)		
▶	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	
	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	
	country count(state)
▶	Austria 331

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

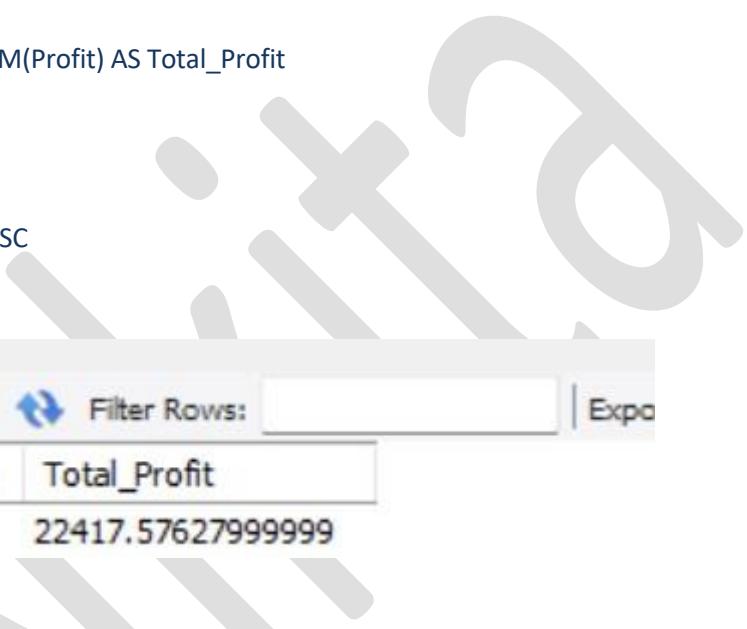
-- Most profitable product

```
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;
```

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

-- Least profitable product

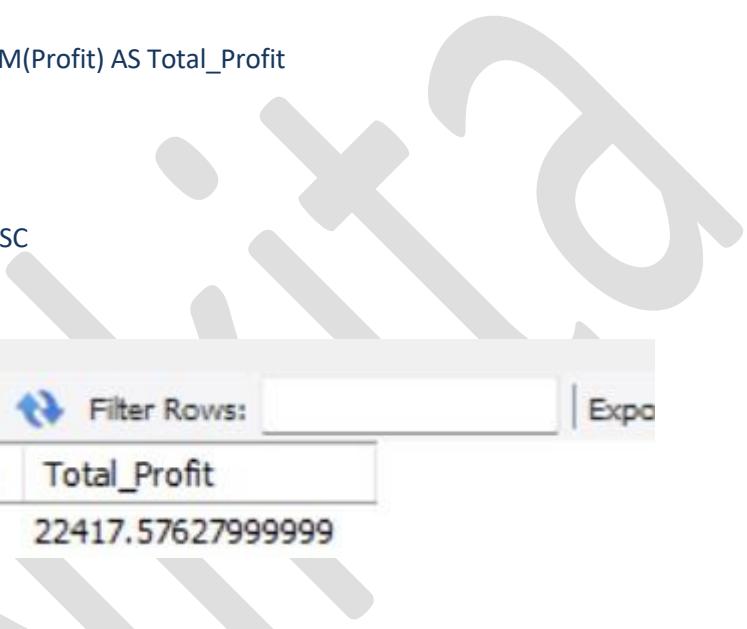
```
SELECT `Product ID`, `Product Name`, SUM(Profit) AS Total_Profit  
FROM superstore  
GROUP BY `Product ID`, `Product name`  
ORDER BY Total_Profit ASC  
LIMIT 1;
```



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:	Export:
	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 | Export | Filter Rows:  | Exp

	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 | Export:  | Filter Rows:  | 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

Result 41 x

-- 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: | Wrap Cell Content

	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.

```
SELECT
`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 ShipCost_to_Profit_Ratio
FROM superstore
GROUP BY `Ship Mode`
ORDER BY ShipCost_to_Profit_Ratio DESC;

```

Result Grid					
	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