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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(PROFIT) AS TOTAL_PROFIT FROM SUPERSTORE;

Result Grid  Filter Rows: <input type="text"/> Export:  Wrap Cell Content: 			
	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;

Result Grid  Filter Rows: <input type="text"/> Export:  W		
	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(PROFIT) FROM SUPERSTORE

GROUP BY `PRODUCT NAME`

ORDER BY SUM(PROFIT) DES

LIMIT 3.

Result Grid  Filter Rows: <input type="text"/> Export:  Wrap Cell Content: 		
	PRODUCT NAME	SUM(PROFIT)
▶	Sauder Classic Bookcase, Metal	2978.3700000000003
	Nokia Smart Phone, with Caller ID	2887.594
	Novimex Executive Leather Armchair, Adjustable	2523.5519999999997

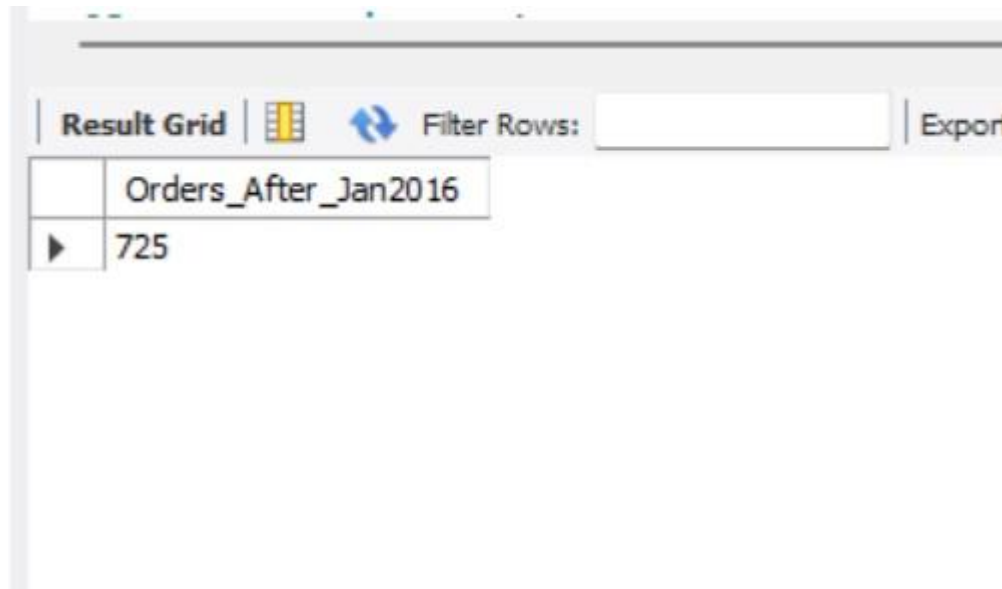
-- 4.find how many orders are placed after January 2016

SELECT

COUNT(DISTINCT `Order ID`) AS Orders_After_Jan2016

FROM superstore

WHERE `Order Date` > '2016-01-31';



The screenshot shows a SQL query result grid. At the top, there is a toolbar with a 'Result Grid' tab, a 'Filter Rows' input field, and an 'Export' button. The main table has one column named 'Orders_After_Jan2016' and one row with the value '725'.

	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';



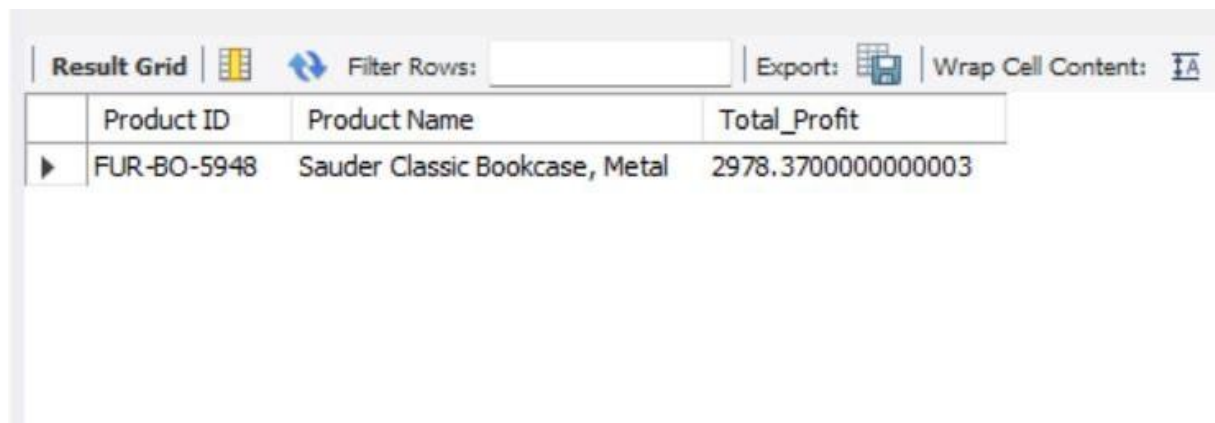
The screenshot shows a SQL query result grid. At the top, there is a toolbar with a 'Result Grid' tab, a 'Filter Rows' input field, and an 'Export' button. The main table has two columns: 'country' and 'count(state)'. There is one row with the values 'Austria' and '331'.

	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;
```



The screenshot shows a database query result grid. The grid has a toolbar at the top with options like 'Result Grid', 'Filter Rows', 'Export', and 'Wrap Cell Content'. The main table has four columns: 'Product ID', 'Product Name', and 'Total_Profit'. The first row of data shows the product 'FUR-BO-5948' with the name 'Sauder Classic Bookcase, Metal' and a total profit of 2978.3700000000003.

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	22417.576279999999

-- 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		Filter Rows:		Export
	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		Filter Rows:		Export:	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:		Export:	
Wrap Cell Content:			
	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
	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   Filter Rows: <input type="text"/> Export:  Wrap Cell Content: 					
	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	30743.198000000003	234902.79051999986	26582.180519999976	115.65
	Standard Class	58735.418000000002	721132.4403599986	84945.40036000012	69.14