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**BATCH: DADS 15 SEP.2025**

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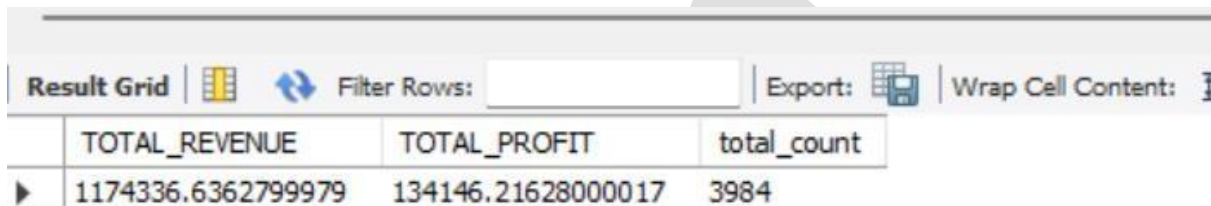
create database if not exists indexing;

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;



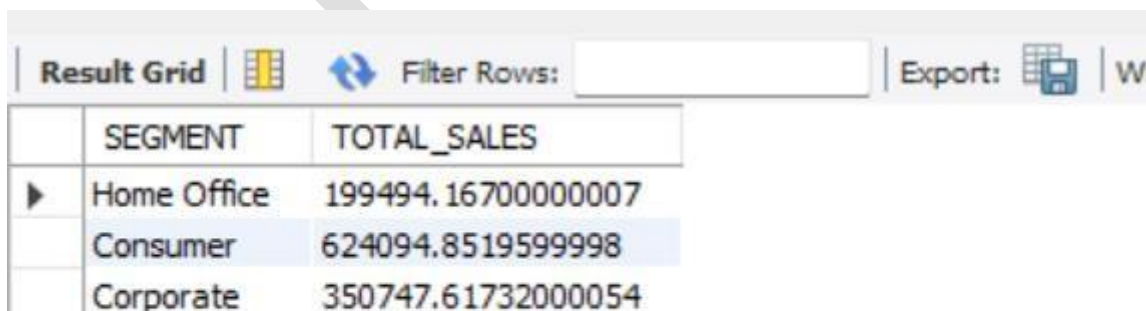
The screenshot shows a database interface with a 'Result Grid' tab. It includes a 'Filter Rows' input field, an 'Export' button with a grid icon, and a 'Wrap Cell Content' option. The grid contains one row of data with three columns: TOTAL\_REVENUE, TOTAL\_PROFIT, and total\_count.

	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;



The screenshot shows a database interface with a 'Result Grid' tab. It includes a 'Filter Rows' input field, an 'Export' button with a grid icon, and a 'W' button. The grid contains three rows of data with two columns: SEGMENT and TOTAL\_SALES.

	SEGMENT	TOTAL_SALES
▶	Home Office	199494.16700000007
	Consumer	624094.85195999998
	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) DESC
```

Nikita

LIMIT 3;

Result Grid			Filter Rows:	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';

Result Grid			Filter Rows:	Export
	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     Filter Rows: <input type="text"/>		
	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;
```

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