

```
USE INDEXING;  
-- 1. Find the Total Revenue and Profit generated.  
  
SELECT  
  
    ROUND(SUM(SALES),2) AS TOTAL_REVENUE,  
  
    ROUND(SUM(PROPIT),2) as total_PROFIT  
  
from SUPERSTORE;
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	TOTAL_REVENUE	TOTAL_PROFIT		
▶	1174336.64	134146.22		

```
-- 2. Find the Segment-wise distribution of Sales.  
  
SELECT  
  
    SEGMENT,  
  
    ROUND(sum(SALES),2) as TOTAL_SALES  
  
from SUPERSTORE  
  
group by SEGMENT  
  
order by TOTAL_SALES DESC;
```

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	SEGMENT	TOTAL_SALES			
▶	Consumer	624094.85			
	Corporate	350747.62			
	Home Office	199494.17			

```
-- 3. Find the Top 3 Most Profitable Products.  
  
SELECT  
  
    `PRODUCT NAME`,  
  
    ROUND(SUM(PROPIT),2) as TOTAL_PROFIT  
  
from SUPERSTORE  
  
group by `PRODUCT NAME`  
  
order by TOTAL_PROFIT DESC  
  
LIMIT 3;
```

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. Find Number of Orders Placed After January 2016.

```
SELECT
    COUNT(*) as ORDERS_AFTER_JAN2016
from SUPERSTORE
where `ORDER DATE` > '2016-01-31';
```

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

	ORDERS_AFTER_JAN2016
▶	1437

-- 5. Find Number of States from Mexico

```
SELECT
    COUNT(DISTINCT STATE) as STATES_FROM_MEXICO
FROM SUPERSTORE
Where COUNTRY = 'Mexico';
```

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

	STATES_FROM_MEXICO
▶	0

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

```
SELECT `PRODUCT NAME`,
    ROUND(SUM(PROPIT),2) AS total_profit,
    ROUND(SUM(SALES),2) AS total_sales
from SUPERSTORE
group by `PRODUCT NAME`
order by total_profit DESC
LIMIT 5;
```

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

	PRODUCT NAME	total_profit	total_sales
▶	Sauder Classic Bookcase, Metal	2978.37	7054.29
	Nokia Smart Phone, with Caller ID	2887.59	16867.22
	Novimex Executive Leather Armchair, Adjustable	2523.55	10066.99
	Hon Executive Leather Armchair, Adjustable	2410.27	16622.08
	Brother Copy Machine, Color	1963.36	7308.04

-- 7. Which customer segment contributes the most to the total revenue?

```
SELECT SEGMENT,
       ROUND(sum(SALES),2) AS total_sales
  FROM SUPERSTORE
 GROUP BY SEGMENT
 ORDER BY total_sales DESC
 LIMIT 1;
```

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

	SEGMENT	total_sales
▶	Consumer	624094.85

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

```
WITH yearly AS (
  SELECT
    YEAR(`ORDER DATE`) AS Year,
    SUM(SALES) AS Total_Sales,
    SUM(PROPIT) AS Total_Profit
  FROM SUPERSTORE
  GROUP BY YEAR(`ORDER DATE`)
)
SELECT
  Year,
  ROUND(Total_Sales,2) AS Total_Sales,
  ROUND(Total_Profit,2) AS Total_Profit,
```

```

ROUND(((Total_Sales - LAG(Total_Sales) OVER (ORDER BY Year)) / LAG(Total_Sales) OVER (ORDER BY
Year) * 100, 2) AS Sales_Growth_Percent,
ROUND(((Total_Profit - LAG(Total_Profit) OVER (ORDER BY Year)) / LAG(Total_Profit) OVER (ORDER
BY Year)) * 100, 2) AS Profit_Growth_Percent
FROM yearly
ORDER BY Year;

```

Result Grid					
	Year	Total_Sales	Total_Profit	Sales_Growth_Percent	Profit_Growth_Percent
▶	HULL	1174336.6362799979	134146.21628000017	NULL	NULL

-- 9. Which countries and cities are driving the highest sales?

```

SELECT COUNTRY,
ROUND(SUM(SALES),2) AS total_sales,
ROUND(SUM(PERFIT),2) AS total_profit
FROM SUPERSTORE
GROUP BY COUNTRY
ORDER BY total_sales DESC
LIMIT 20;

```

Result Grid		
COUNTRY	total_sales	total_profit
▶ Australia	925235.85	103907.43
Austria	92539.05	24341.7
Argentina	57511.78	-18693.8
Algeria	36091.59	9106.5
Angola	25554	6494.97
Afghanistan	21673.32	5460.3
Azerbaijan	5631.51	1831.05
Bangladesh	5385.48	906.81
Albania	3888.12	709.32
Bahrain	669.18	12.84
Armenia	156.75	69.09

-- 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_delivery_days,
       MIN(DATEDIFF(`SHIP DATE`, `ORDER DATE`)) AS min_delivery_days,
       MAX(DATEDIFF(`SHIP DATE`, `ORDER DATE`)) AS max_delivery_days
  FROM SUPERSTORE
 GROUP BY REGION
 ORDER BY avg_delivery_days DESC;
```

Result Grid				
	REGION	avg_delivery_days	min_delivery_days	max_delivery_days
▶	Southern Asia	NULL	NULL	NULL
	Southern Europe	NULL	NULL	NULL
	North Africa	NULL	NULL	NULL
	Central Africa	NULL	NULL	NULL
	South America	NULL	NULL	NULL
	Western Asia	NULL	NULL	NULL
	Oceania	NULL	NULL	NULL
	Western Europe	NULL	NULL	NULL

-- 11. what is the profit distribution across order priority?

```
SELECT `ORDER PRIORITY`,
       COUNT(*)          AS orders,
       ROUND(SUM(SALES),2) AS total_sales,
       ROUND(SUM(PROPIT),2) AS total_profit,
       ROUND(AVG(PROPIT),2) AS avg_profit_per_order,
       ROUND(STDDEV_SAMP(PROPIT),2) AS profit_stddev -- or STDDEV(PROPIT) depending on DB
  FROM SUPERSTORE
 GROUP BY `ORDER PRIORITY`
 ORDER BY total_profit DESC;
```

Result Grid						
	ORDER PRIORITY	orders	total_sales	total_profit	avg_profit_per_order	profit_stddev
▶	Medium	2294	675915.93	73509.69	32.04	143.98
	High	1269	377508.06	46576.52	36.7	146.49
	Critical	286	82706.29	9776.81	34.18	150.58
	Low	135	38206.35	4283.19	31.73	170.26

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

```
SELECT `ORDER ID`, SUM(PROFIT) AS profit_sum, SUM(SHIPPING_COST) AS shipping_sum,  
SUM(DISCOUNT) AS discount_sum  
  
FROM SUPERSTORE  
  
GROUP BY `ORDER ID`  
  
HAVING (shipping_sum + discount_sum) > profit_sum  
  
LIMIT 50;
```

	Category	Sub-Category	Product Name	Total_Sales	Total_Profit	Avg_Discount
▶	Furniture	Bookcases	Ikea Library with Doors, Traditional	6359.324999999999	-1748.174999999997	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	2768.850000000004	-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