1. Find the total Revenue , quantities and profit generated.

Solution: select sum(sales) as total_ revenue,

   sum(quantity)as quantities, sum(profit)as profit from superstore;

o/p -

total_revenue	quantities	profit
1174336.6362799979	14452	134146.21628000017

2. Find the Segment wise distribution of the sales.
   Solution:
   select segment, sum(sales) as distribution_ of_ sales
   from superstore
   group by segment;

o/p-

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

segment	distribution_of_sales
Home Office	199494.16700000007
Consumer	624094.8519599998
Corporate	350747.61732000054

3. Find the top 3 profitable product.
   Solution:
   SELECT
       `Product Name`,
       SUM(Profit) AS Total_ Profit
   FROM superstore
   GROUP BY `Product Name`
   ORDER BY Total_ Profit DESC
   LIMIT 3;

O/P:

Product Name	Total_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';

O/P:

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

Solution:

SELECT

   COUNT (DISTINCT State) AS States_ in_ Mexico

FROM superstore

WHERE Country = 'Mexico';

O/P-

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

SOLUTION:

SELECT   `sub-category`, `Product Name`, SUM(Profit) AS Total_ Profit

FROM superstore

GROUP BY `sub-Category`, `Product name`

ORDER BY total_ Profit DESC

LIMIT 1;

O/P-

	sub-category	Product Name	Total_Profit
▶	Bookcases	Sauder Classic Bookcase, Metal	2978.3700000000003

-- Least profitable

SELECT `Sub-Category`, `Product Name`, SUM(Profit) AS Total_ Profit

FROM superstore

GROUP BY `sub-Category`, `Product Name`

ORDER BY total_ Profit ASC

LIMIT 1;

O/P-

	Sub-Category	Product Name	Total_Profit
▶	Bookcases	Ikea Library with Doors, Traditional	-1748.1749999999997

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

SOLUTION:

SELECT

   Segment,

   SUM(Sales) AS Total_ Revenue

FROM superstore

GROUP BY Segment

ORDER BY Total_ Revenue DESC

LIMIT 1;

O/P-

	Segment	Total_Revenue
▶	Consumer	624094.8519599998

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

SOLUTION:

```
SELECT

    t1.Year,

    t1.Total_Sales,

    t1.Total_Profit,

    ROUND(((t1.Total_Sales - t2.Total_Sales) / t2.Total_Sales) * 100, 2) AS
YoY_Sales_Growth_Percent,

    ROUND (((t1. Total _Profit - t2.Total_Profit) / t2.Total_Profit) * 100, 2) AS YoY_ Profit_
Growth_ Percent

FROM (

    SELECT YEAR (`Order Date`) AS Year, SUM(Sales) AS Total_ Sales, SUM(Profit) AS Total_
Profit

    FROM superstore

    GROUP BY YEAR (`Order Date`)

) t1

LEFT JOIN (

    SELECT YEAR(`Order Date`) AS Year, SUM(Sales) AS Total_ Sales, SUM(Profit) AS Total_
Profit

    FROM superstore

    GROUP BY YEAR(`Order Date`)

) t2 ON t1.Year = t2.Year + 1

ORDER BY t1.Year;
```

O/P:

Year	Total_Sales	Total_Profit	YoY_Sales_Growth_Percent	YoY_Profit_Growth_Percent
NULL	1174336.6362799979	134146.21628000017	NULL	NULL

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

SOLUTION:

```
select country, city, sum(sales)as total_ Sales

from superstore

group by country, city
```

order by total_ sales DESC

LIMIT 10;

country	city	total_sales
Australia	Sydney	101945.51700000002
Australia	Brisbane	75729.01500000006
Australia	Melbourne	73843.54799999994
Australia	Gold Coast	72626.92200000005
Australia	Perth	64292.20199999997
Austria	Vienna	62023.53000000002

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

SOLUTION:

SELECT

 Region,

 ROUND(AVG(DATEDIFF(

  STR_TO_DATE(`Ship Date`, '%Y-%m-%d'),

  STR_TO_DATE (`Order Date`, '%Y-%m-%d')

 )), 2) AS Avg_ Delivery_ Days

FROM superstore

WHERE `Ship Date` IS NOT NULL

 AND `Order Date `IS NOT NULL

GROUP BY Region

ORDER BY Avg_ Delivery_ Days;

O/P:

Region	Avg_Delivery_Days
Southern Europe	-1498.75
Western Asia	-746.53
Western Europe	-217.15
North Africa	-202.43
Central Africa	-121.20
Oceania	-13.00

11. What is the profit distribution across order priority?

   SOLUTION:

```
SELECT
   `Order Priority`,
   SUM(Profit) AS Total_ Profit,
   COUNT (`Order ID`) AS Total_ Orders
FROM superstore
GROUP BY `Order Priority`
ORDER BY Total_ Profit DESC;
```

O/P:

Order Priority	Total_Profit	Total_Orders
Medium	73509.69276000009	2294
High	46576.51983999997	1269
Critical	9776.810679999997	286
Low	4283.192999999999	135

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

SOLUTION:

- Focus on high-profit subcategories and regions.
- Reduce discounts on low-margin products.
- Optimize shipping times and inventory for better efficiency.