```
--------- SUPERSTORE DATA PROJECT ----------

--> Display all the columns in the table

SELECT * FROM dbo.Orders$


--> Display only the State and their respective sales. The result should not contain duplicates

SELECT STATE, SUM(SALES) AS TOTAL_SALES
FROM
DBO.Orders$ GROUP BY STATE


--> What is the total sales by state? Display the highest sales on the top and round it off to the nearest integer

SELECT STATE, ROUND(SUM(SALES),0) AS SALES
FROM DBO.Orders$
GROUP BY STATE ORDER BY SALES DESC


--> What is the total orders placed under each ship mode? Sort the results to display the "SAME DAY" shipmode in
the first

SELECT SHIP_MODE, COUNT(ORDER_ID) AS TOTAL_ORDERS
FROM DBO.Orders$
GROUP BY SHIP_MODE
ORDER BY
CASE WHEN SHIP_MODE = 'SAME DAY' THEN 0 ELSE 1 END


--> Display the state which is
a) Least profitable
b) Most profitable

------USING CTE------
WITH CTE1 AS
( SELECT STATE, SUM(PROFIT) AS TOTAL_PROFIT
FROM DBO.Orders$
GROUP BY STATE),
CTE2 AS
( SELECT MIN(TOTAL_PROFIT) AS MIN_PROFIT
FROM CTE1)
SELECT * FROM CTE1 WHERE TOTAL_PROFIT IN (SELECT MIN_PROFIT FROM CTE2)

------USING RANK WITH CTE------
WITH CTE1 AS
(SELECT STATE, SUM(PROFIT) AS TOTAL_PROFIT, RANK() OVER(ORDER BY SUM(PROFIT) DESC) AS RANKING
FROM DBO.Orders$
GROUP BY STATE)
SELECT * FROM CTE1 WHERE RANKING=1
```

```sql
--> Under each category, find the sub-category resulting in the highest sales

WITH CTE1 AS (
SELECT CATEGORY, SUB_CATEGORY,SUM(SALES) AS TOTAL_SALES, RANK() OVER(PARTITION BY CATEGORY ORDER BY SUM(SALES)
DESC) AS RANKING
FROM DBO.Orders$
GROUP BY CATEGORY, SUB_CATEGORY )
SELECT * FROM CTE1 WHERE RANKING =1


--> Name the top 5 most ordered products

SELECT TOP 5 PRODUCT_ID, PRODUCT_NAME
FROM DBO.Orders$
GROUP BY PRODUCT_ID, PRODUCT_NAME
ORDER BY COUNT(ORDER_ID) DESC


--> How many orders is placed under each sub-category year wise

 WITH CTE1 AS (
 SELECT YEAR(ORDER_DATE) AS ORDER_YEAR,SEGMENT, COUNT(ORDER_id) AS TOTAL_ORDERS
FROM DBO.Orders$
GROUP BY ORDER_DATE, SEGMENT)
SELECT ORDER_YEAR ,SEGMENT, SUM(TOTAL_ORDERS) AS TOTAL_ORDERS
FROM CTE1
GROUP BY ORDER_YEAR, SEGMENT
ORDER BY ORDER_YEAR


--> Which are the 3 least selling products in each segment

WITH CTE1 AS (
SELECT SEGMENT,PRODUCT_NAME, SUM(SALES) AS TOTAL_SALES, RANK() OVER(PARTITION BY SEGMENT ORDER BY SUM(SALES)) AS
RANKING
FROM DBO.Orders$
GROUP BY SEGMENT,PRODUCT_NAME)
SELECT * FROM CTE1 WHERE RANKING BETWEEN 1 AND 3
```

--> What is the most purchased product on the store and how many times was it purchased

```sql
SELECT TOP 1 PRODUCT_ID,PRODUCT_NAME ,COUNT(PRODUCT_ID) AS TIMES_PURCHASED
FROM DBO.Orders$
GROUP BY PRODUCT_ID, PRODUCT_NAME
ORDER BY TIMES_PURCHASED DESC
```

--> Which Category has highest number of returns?

```sql
SELECT TOP 1 O.CATEGORY, COUNT(R.RETURNED) AS TIMES_RETURNED
FROM DBO.Orders$ AS O
JOIN Returns$ AS R
ON O.ORDER_ID = R.ORDER_ID
GROUP BY O.CATEGORY
ORDER BY TIMES_RETURNED DESC
```

--> Create a summary table to show the quantity of products sold by the loss manking cities

```sql
SELECT CITY,SUM(PROFIT) AS TOTAL_LOSS, SUM(QUANTITY) AS TOTAL_QUANTITY
FROM DBO.Orders$
GROUP BY CITY
HAVING SUM(PROFIT) < 0
```

--> Create a summary report for month on month sales and profit. Round off sales and profit to 2 digits

```sql
SELECT YEAR(ORDER_DATE) AS YEAR, DATENAME(MONTH,ORDER_DATE) AS MONTH, ROUND(SUM(SALES),2) AS SALES,
ROUND(SUM(PROFIT),2) AS PROFIT
FROM DBO.Orders$
GROUP BY YEAR(ORDER_DATE), MONTH(ORDER_DATE), DATENAME(MONTH,ORDER_DATE)
ORDER BY YEAR, MONTH(ORDER_DATE)
```

\\GLOBAL SUPERSTORE PROJECT BY KIRTHIKA G.J