

1.
SELECT COUNT(DISTINCT Order_id) AS total_orders
FROM SALES
WHERE Date = '2023-03-18';
2.
SELECT COUNT(DISTINCT s.Order_id) AS total_orders
FROM SALES s
JOIN CUSTOMERS c ON s.Customer_id = c.customer_id
WHERE s.Date = '2023-03-18'
AND c.first_name = 'John'
AND c.last_name = 'Doe';
3.
SELECT COUNT(DISTINCT Customer_id) AS total_customers,
AVG(total_spent) AS average_spent_per_customer
FROM (
SELECT Customer_id, SUM(Revenue) AS total_spent
FROM SALES
WHERE Date >= '2023-01-01' AND Date <= '2023-01-31'
GROUP BY Customer_id
) AS Customer_Spending
4.
SELECT i.department, SUM(s.Revenue) AS total_revenue
FROM SALES s
JOIN ITEMS i ON s.Item_id = i.Item_id
WHERE s.Date BETWEEN '2022-01-01' AND '2022-12-31'
GROUP BY i.department
HAVING SUM(s.Revenue) < 600;
5.
WITH Order_Revenues AS (
SELECT Order_id, SUM(Revenue) AS Total_Revenue
FROM SALES
GROUP BY Order_id
)
SELECT MAX(Total_Revenue) AS Max_Revenue, MIN(Total_Revenue) AS
Min_Revenue
FROM Order_Revenues;
6.
WITH Order_Revenues AS (

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SELECT Order_id, SUM(Revenue) AS Total_Revenue
FROM SALES
GROUP BY Order_id
), Max_Revenue_Order AS (
  SELECT Order_id
  FROM Order_Revenues
  WHERE Total_Revenue = (SELECT MAX(Total_Revenue) FROM Order_Revenues)
)
SELECT s.Order_id, s.Item_id, i.Item_name, s.Quantity, s.Revenue
FROM SALES s
JOIN ITEMS i ON s.Item_id = i.Item_id
JOIN Max_Revenue_Order mro ON s.Order_id = mro.Order_id;
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