TABLE INFO :
SALES – Date, Order_id, Item_id, Customer_id, Quantity, Revenue
ITEMS – Item_id, Item_name, price, department
CUSTOMERS- customer_id, first_name,last_name,Address

1.Pull total number of orders that were completed on 18th March 2023.

```
SELECT COUNT(DISTINCT Order_id) AS total_orders
FROM SALES
WHERE DATE(Date) = '2023-03-18';
```

2.Pull total number of orders that were completed on 18th March 2023 with the first name 'John' and last name Doe'.

```
SELECT COUNT(DISTINCT s.Order_id) AS total_orders
FROM SALES s
JOIN CUSTOMERS c ON s.Customer_id = c.customer_id
WHERE DATE(s.Date) = '2023-03-18' AND c.first_name = 'John' AND c.last_name = 'Doe';
```

3.Pull total number of customers that purchased in January 2023 and the average amount spend per customer.

```
SELECT COUNT(DISTINCT Customer_id) AS total_customers, AVG(Revenue) AS
average_spent
FROM SALES
WHERE MONTH(Date) = 1 AND YEAR(Date) = 2023;
```

4.Pull the departments that generated less than $600 in 2022.

```
SELECT i.department, SUM(s.Revenue) AS total_revenue
FROM SALES s
JOIN ITEMS i ON s.Item_id = i.Item_id
WHERE YEAR(s.Date) = 2022
GROUP BY i.department
HAVING total_revenue < 600;
```

5.What is the most and least revenue we have generated by an order.

```
(SELECT Order_id, SUM(Revenue) AS total_revenue
FROM SALES
GROUP BY Order_id
ORDER BY total_revenue DESC
LIMIT 1)
UNION ALL
(SELECT Order_id, SUM(Revenue) AS total_revenue
FROM SALES
GROUP BY Order_id
ORDER BY total_revenue ASC
LIMIT 1);
```

6.What were the orders that were purchased in our most lucrative order.

```
CREATE TEMPORARY TABLE MostLucrativeOrder AS
SELECT Order_id, SUM(Revenue) AS TotalRevenue
FROM SALES
GROUP BY Order_id
ORDER BY TotalRevenue DESC
LIMIT 1;

SELECT s.Order_id, s.Item_id, s.Quantity
FROM SALES s
JOIN MostLucrativeOrder mlo ON s.Order_id = mlo.Order_id;
```