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.
2.Pull total number of orders that were completed on 18th March 2023 with the first name ‘John’ and last name Doe’.
3.Pull total number of customers that purchased in January 2023 and the average amount spend per customer.
4.Pull the departments that generated less than $600 in 2022.
5.What is the most and least revenue we have generated by an order.
6.What were the orders that were purchased in our most lucrative order.

Q1

```
Select COUNT(Distinct Order_id) as Total_orders
From SALES
WHERE Data = ‘03-18-2023’;
```

Q2

```
Select COUNT(Distinct s.Order_id) as Total_orders
From SALES as s
JOIN CUSTOMERS as c ON s.Customer_id = c.customer_id
WHERE s.Data = ‘03-18-2023’ AND c.first_name = ‘John’ and c.last_name= ‘Doe’;
```

Q3

```
SELECT COUNT(Distinct customer_id) as Total_customers
FROM Sales
WHERE Data BETWEEN ‘01-01-2023’ and ‘01-31-2023’;
```

```
SELECT c.customer_id,  AVG(s.Revenue) as Rev
FROM CUSTOMERS as c
JOIN SALES as s ON c.customer_id = s.Customer_id
WHERE Data BETWEEN ‘01-01-2023’ and ‘01-31-2023’;
Group by c.Customer_id;
```

Q4

```
SELECT i.department, SUM(s.Revenue) AS total_revenue
FROM SALES as s
JOIN ITEMS as i ON s.Item_id = i.Item_id
WHERE s.Date BETWEEN  '01-01-2022' AND '12-31-2022'
GROUP BY i.department
HAVING SUM(s.Revenue) < 600;
```

Q5

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

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

Q6

```
SELECT s.Order_id, i.Item_name
FROM SALES as s
JOIN ITEMS as i ON s.Item_id = i.Item_id
WHERE s.Order_id = ( SELECT Order_id,
FROM SALES
GROUP BY Order_id
ORDER BY SUM(Revenue) DESC
LIMIT 1;
)
```