Name: Sampreeth Avvari
NetID: spa9659

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

```
SELECT Date, count(distinct(Order_id)) AS Number_of_Orders
FROM Sales
WHERE 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 Date, First_name AS First_Name, Last_name AS Last_Name,
        COUNT(DISTINCT(Order_id)) AS Orders_on_this_name
FROM Sales
JOIN Customers ON Sales.Customer_id = Customers.Customer_id
WHERE Orders.Date = '2023-03-18' AND Customers.First_name = ‘John’ AND
        Customer.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 Number_of_Customers,
         Sum(Revenue)/COUNT(DISTINCT(customer_id) AS Average_revenue_per_customer
FROM Sales
WHERE Date between '2023-01-01' AND ‘2023-02-01’;
```

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

```
SELECT i.Department As Department
FROM Sales s
JOIN Items i ON s.Item.id = i.Item_id
WHERE s.Date between ‘2022-01-01’ AND ‘2023-01-01’
GROUP BY i.Department
HAVING SUM(s.revenue)<600;
```

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

```
SELECT Order_id AS Order_ID, Revenue
FROM Sales
WHERE Revenue = (SELECT MAX(Revenue) FROM Sales)
        OR Revenue = (SELECT MIN(Revenue) FROM Sales)
```

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

```
SELECT s.Order_id, i.Item_name, s.Quantity
FROM SALES s
JOIN (
        SELECT Order_id, MAX(Revenue)
         FROM Sales
        GROUP BY Order_id
        ) AS Max_Revenue_Order
ON s.Order_id = Max_Revenue_Order.Order_id
JOIN ITEMS i
ON s.Item_id = i.Item_id
WHERE s.Revenue = Max_Revenue_Order.max_revenue;
```

THE END