SQL Homework - Data Science Bootcamp
Soumiya Chadha

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(Order_id) AS Total_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 COUNT(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.Pull total number of customers that purchased in January 2023 and the average amount spent per customer.

```
SELECT COUNT(DISTINCT customer_id) AS Total_Customers,
    AVG(Revenue) AS Avg_Amount_Spend_Per_Customer
FROM SALES
WHERE Date >= '2023-01-01' AND Date <= '2023-01-31' ;
```

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

```
SELECT department
FROM ITEMS
GROUP BY department
HAVING SUM(price) < 600 ;
```

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

```
SELECT MAX(Revenue) AS Max_Revenue,
    MIN(Revenue) AS Min_Revenue
FROM SALES ;
```

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

```
SELECT *
FROM SALES
WHERE Revenue = (SELECT MAX(Revenue) FROM SALES);
```