HW4: Data Science Bootcamp

Use the following tables to work on the following prompts

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 Cnt
FROM SALES
WHERE Date = '03-18-2023';
```

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 as s
LEFT JOIN CUSTOMERS as c ON s.Customer_id = c.customer_id
WHERE s.Date = '03-18-2023'
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 s.Customer_id) AS total_customers,
       AVG(s.Revenue) as average_spent
FROM SALES AS s
WHERE s.Date BETWEEN '01-01-2023' AND '01-31-2023';
```

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

```
SELECT i.department, SUM(s.Revenue) AS total_revenue
FROM SALES AS s
LEFT 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;
```

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;
```