

DATA SCIENCE BOOTCAMP (Spring 2024) – Saurabh Prabhu Parrikar

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.

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

```
SELECT COUNT(Order_id) AS TotalOrders
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 TotalOrders
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 spend per customer.

```
SELECT COUNT(DISTINCT s.Customer_id) AS TotalCustomers,
       AVG(s.Revenue) AS AvgAmountSpentPerCustomer
FROM SALES s
```

WHERE YEAR(s.Date) = 2023

AND MONTH(s.Date) = 1

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

SELECT d.department

FROM ITEMS i

JOIN SALES s ON i.Item_id = s.Item_id

JOIN DEPARTMENT d ON i.department_id = d.department_id

WHERE YEAR(s.Date) = 2022

GROUP BY d.department

HAVING SUM(s.Revenue) < 600;

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

SELECT MAX(Revenue) AS MostRevenue, MIN(Revenue) AS LeastRevenue

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);