**Satyajit Sriram SQL HW Assignment**

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 sWHERE 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);