

## SQL HW

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

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

```
SELECT COUNT(Order_id) AS TotalCompletedOrders
FROM SALES
WHERE Date = '2023-03-18';
```

- 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 TotalCompletedOrdersJohnDoe
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';
```

- Pull total number of customers that purchased in January 2023 and the average amount spend per customer

```
SELECT COUNT(DISTINCT Customer_id) AS TotalCustomers,
       AVG(Revenue) AS AverageAmountSpentPerCustomer
FROM SALES
WHERE CAST (Date AS string) LIKE '%-01-2022' ;
```

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

```
SELECT i.department, SUM(s.Revenue) AS TotalRevenue
FROM SALES s
JOIN ITEMS i ON s.Item_id = i.Item_id
WHERE CAST(Date AS string)= '%-2022'
GROUP BY i.department
HAVING SUM(s.Revenue) < 600;
```

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

```
SELECT MAX(Revenue) AS MaxRevenue, MIN(Revenue) AS MinRevenue
FROM SALES;
```

- What were the orders that were purchased in our **most lucrative order**

```
SELECT s.Order_id, s.Revenue
FROM SALES s
WHERE s.Revenue = (SELECT MAX(Revenue) FROM SALES);
```