

## WEEK-2

### PRACTICE PROBLEMS

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(s.Order\_id))  
FROM Sales AS s  
WHERE s.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(DISTINCT(s.Order\_id))  
FROM Sales AS s  
INNER JOIN Customers AS c ON s.Customer\_id=c.Customer\_id  
WHERE s.Date='18<sup>th</sup> March 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)), AVG(s.Revenue)  
FROM Sales AS s  
WHERE s.Date BETWEEN ('1<sup>st</sup> January 2023', '31<sup>st</sup> January 2023')  
GROUP BY c.Customer\_id;
4. Pull the departments that generated less than \$600 in 2022.  
SELECT i.Department, SUM(s.Revenue) AS total\_revenue  
FROM Sales s  
JOIN Items i ON s.Item\_id = i.Item\_id  
WHERE s.Date BETWEEN '2022-01-01' AND '2022-12-31'  
GROUP BY i.Department  
HAVING total\_revenue < 600;
5. What is the most and least revenue we have generated by an order.  
SELECT MAX(Revenue), MIN(Revenue)  
FROM Sales;
6. What were the orders that were purchased in our most lucrative order.  
SELECT Order\_id, Item\_id, Quantity, Revenue  
FROM Sales  
WHERE Revenue = (SELECT MAX(Revenue) FROM Sales);