**Assignment 02 – MySQL Basics Part 2**

**1. Fetch all the Customer Details along with the product names that the customer has ordered.**

SELECT c.Customer\_Id, c.Customer\_Name, p.Product\_Name

FROM customer c

INNER JOIN `order` o

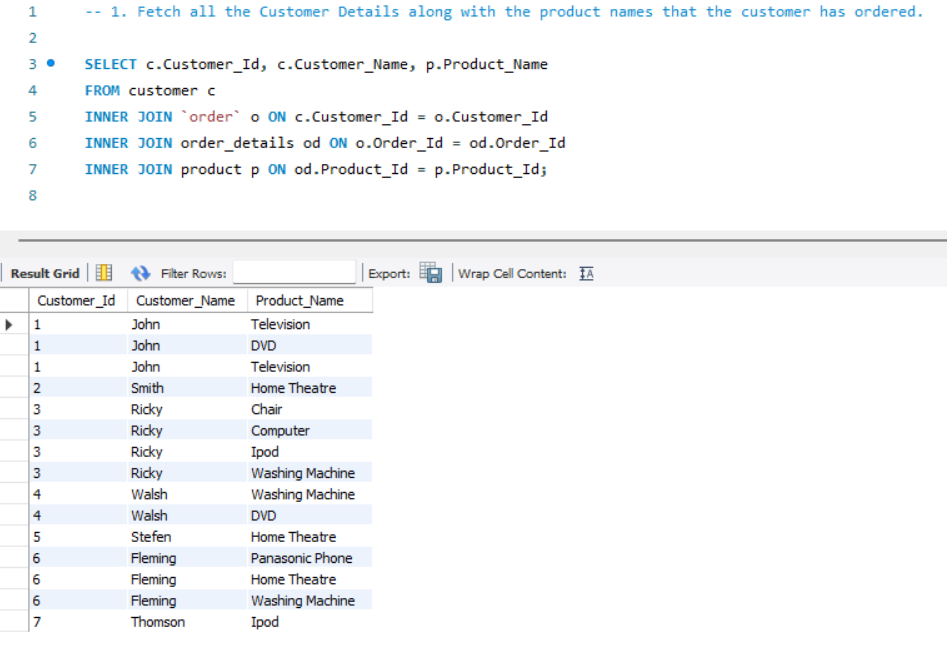
ON c.Customer\_Id = o.Customer\_Id

INNER JOIN order\_details od

ON o.Order\_Id = od.Order\_Id

INNER JOIN product p

ON od.Product\_Id = p.Product\_Id;



**2. Fetch Order\_Id, Ordered\_Date, Total Price of the order (product price \* qty)**

SELECT o.Order\_Id, o.Ordered\_Date,

SUM(p.Product\_Price \* od.Quantity) AS Total\_Price

FROM `order` o

INNER JOIN order\_details od

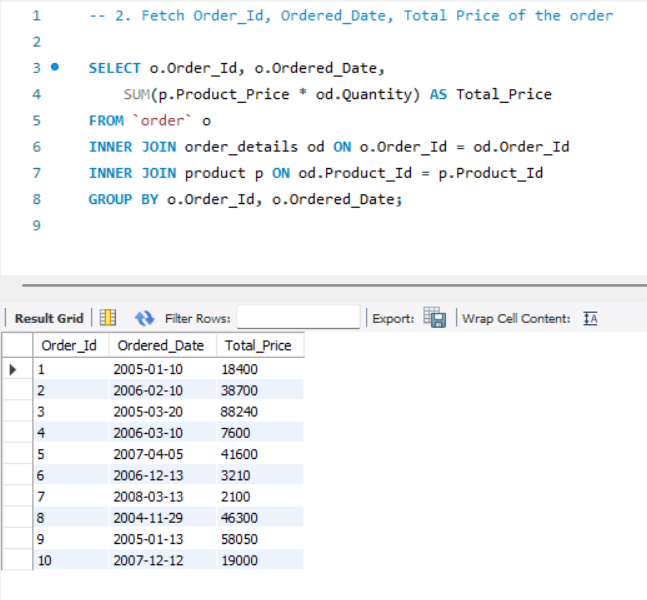
ON o.Order\_Id = od.Order\_Id

INNER JOIN product p

ON od.Product\_Id = p.Product\_Id

GROUP BY

o.Order\_Id, o.Ordered\_Date;



**3. Fetch the Customer Name, who has not placed any order**

SELECT c.Customer\_Name

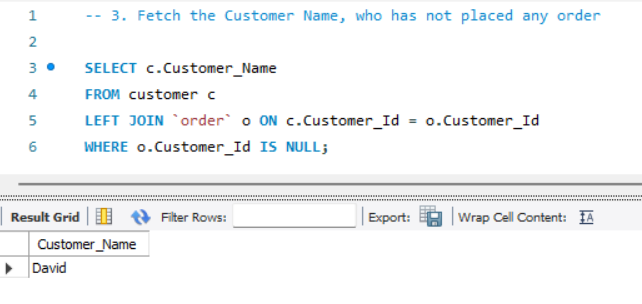
FROM customer c

LEFT JOIN `order` o

ON c.Customer\_Id = o.Customer\_Id

WHERE

o.Customer\_Id IS NULL;



**4. Fetch the Product Details without any order(purchase)**

SELECT p.\*

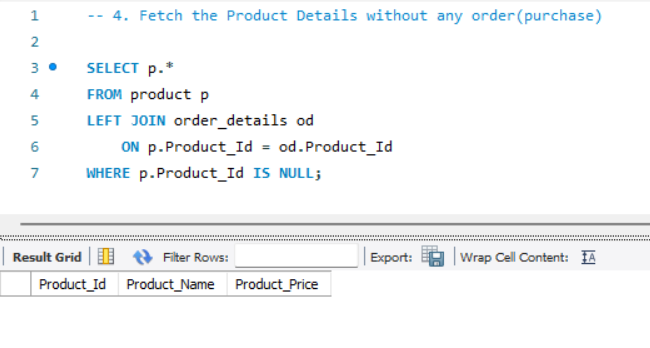
FROM product p

LEFT JOIN order\_details od

ON p.Product\_Id = od.Product\_Id

WHERE

p.Product\_Id IS NULL;



**5. Fetch the Customer name along with the total Purchase Amount**

SELECT c.Customer\_Name,

SUM(p.Product\_Price \* od.Quantity) AS Total\_Purshase\_Amount

FROM customer c

INNER JOIN `order` o

ON c.Customer\_Id = o.Customer\_Id

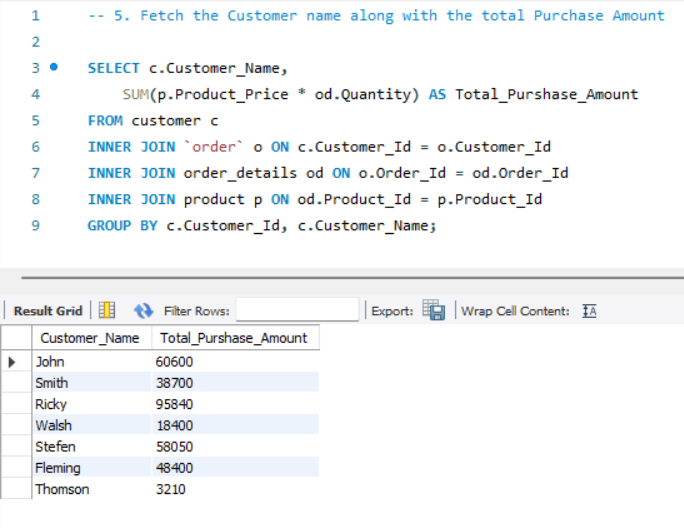
INNER JOIN order\_details od

ON o.Order\_Id = od.Order\_Id

INNER JOIN product p

ON od.Product\_Id = p.Product\_Id

GROUP BY c.Customer\_Id, c.Customer\_Name;



**6. Fetch the Customer details, who has placed the first and last order**

SELECT c.\*, o.Ordered\_Date AS First\_and\_Last\_Order

FROM customer c

JOIN `order` o

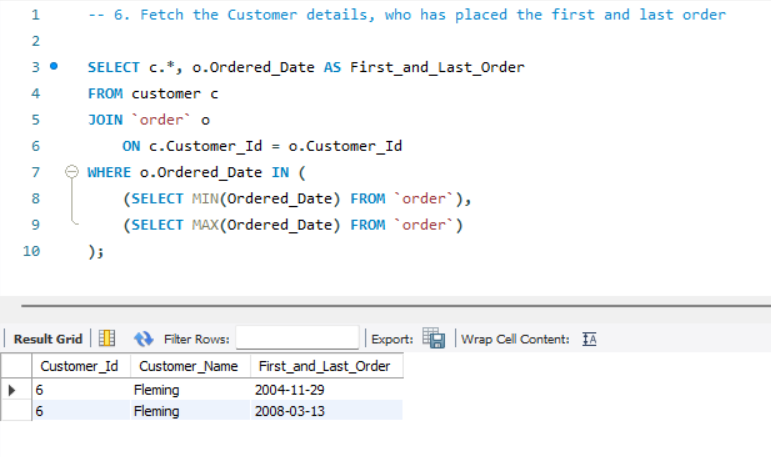
ON c.Customer\_Id = o.Customer\_Id

WHERE o.Ordered\_Date IN (

(SELECT MIN(Ordered\_Date) FROM `order`),

(SELECT MAX(Ordered\_Date) FROM `order`)

);



**7. Fetch the customer details, who has placed a greater number of orders**

SELECT c.\*,

COUNT(o.Order\_Id) AS Total\_Orders

FROM customer c

LEFT JOIN `order` o

ON c.Customer\_Id = o.Customer\_Id

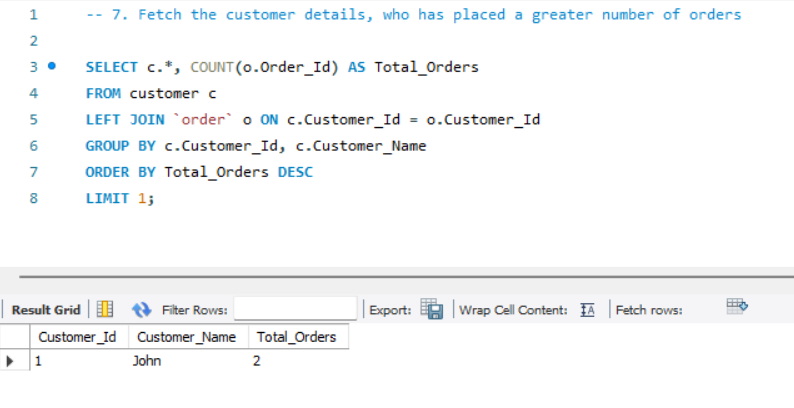
GROUP BY

c.Customer\_Id, c.Customer\_Name

ORDER BY

Total\_Orders DESC

LIMIT 1;



**8. Fetch the customer details, who has placed multiple orders in the same year**

SELECT c.\*,

YEAR(o.Ordered\_Date) AS Order\_Year,

COUNT(o.Order\_Id) AS Total\_Orders

FROM customer c

LEFT JOIN `order` o

ON c.Customer\_Id = o.Customer\_Id

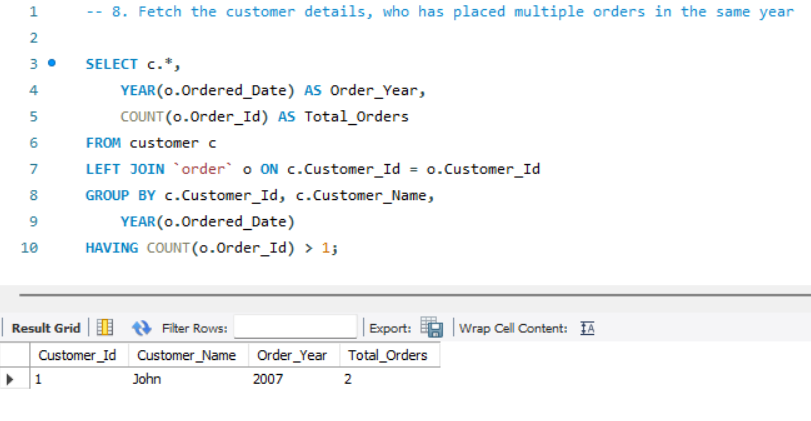
GROUP BY

c.Customer\_Id, c.Customer\_Name,

YEAR(o.Ordered\_Date)

HAVING

COUNT(o.Order\_Id) > 1;



**9. Fetch the name of the month, in which a greater number of orders has been placed**

SELECT

MONTHNAME(o.Ordered\_Date) AS Month\_Name,

COUNT(o.Order\_Id) AS Total\_Orders

FROM `Order` o

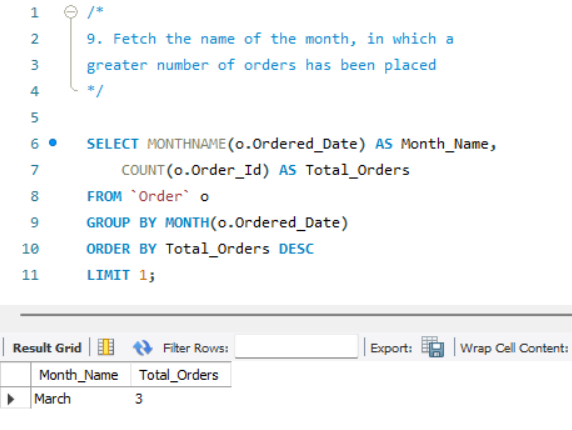
GROUP BY

MONTH(o.Ordered\_Date)

ORDER BY

Total\_Orders DESC

LIMIT 1;



**10. Fetch the maximum priced Ordered Product**

SELECT p.\*

FROM product p

INNER JOIN order\_details od

ON p.Product\_Id = od.Product\_Id

ORDER BY

p.Product\_Price DESC

LIMIT 1;

