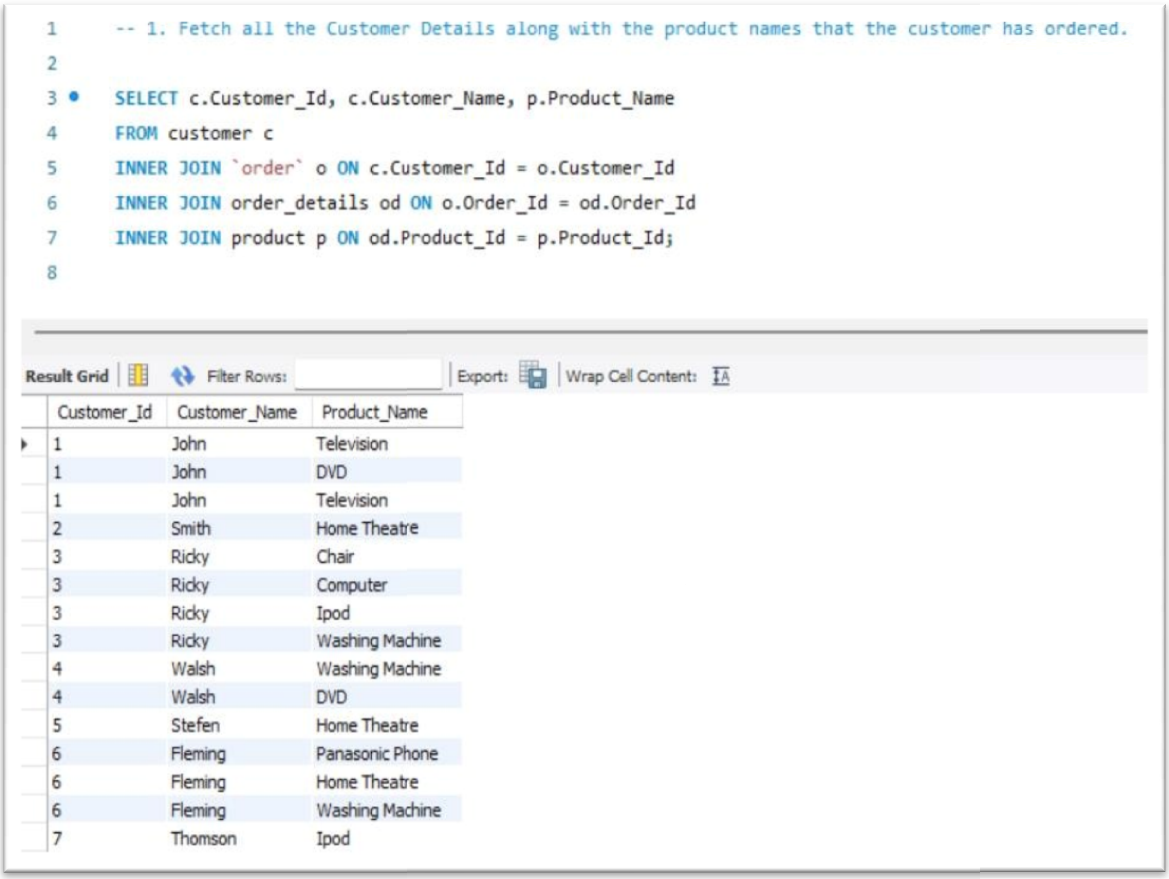
# ..Assignment—2..

## 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
        ONc.Customer_Id=o.Customer_Id
INNER JOIN order_details od
        ONo.Order_Id=od.Order_Id INNER
JOIN product p
        ONod.Product_Id=p.Product_Id;
```



```
1   -- 1. Fetch all the Customer Details along with the product names that the customer has ordered.
2
3   SELECT c.Customer_Id, c.Customer_Name, p.Product_Name
4   FROM customer c
5   INNER JOIN `order` o ON c.Customer_Id = o.Customer_Id
6   INNER JOIN order_details od ON o.Order_Id = od.Order_Id
7   INNER JOIN product p ON od.Product_Id = p.Product_Id;
8
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| Customer_Id | Customer_Name | Product_Name |
|---|---|---|
| 1 | John | Television |
| 1 | John | DVD |
| 1 | John | Television |
| 2 | Smith | Home Theatre |
| 3 | Ricky | Chair |
| 3 | Ricky | Computer |
| 3 | Ricky | Ipod |
| 3 | Ricky | Washing Machine |
| 4 | Walsh | Washing Machine |
| 4 | Walsh | DVD |
| 5 | Stefen | Home Theatre |
| 6 | Fleming | Panasonic Phone |
| 6 | Fleming | Home Theatre |
| 6 | Fleming | Washing Machine |
| 7 | Thomson | Ipod |

## 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
INNERJOINorder_detailsod
        ONo.Order_Id=od.Order_Id INNER
JOIN product p
        ONod.Product_Id=p.Product_Id
GROUP BY
        o.Order_Id,o.Ordered_Date;
```

```
1   -- 2. Fetch Order_Id, Ordered_Date, Total Price of the order
2
3   SELECT o.Order_Id, o.Ordered_Date,
4       SUM(p.Product_Price * od.Quantity) AS Total_Price
5   FROM `order` o
6   INNER JOIN order_details od ON o.Order_Id = od.Order_Id
7   INNER JOIN product p ON od.Product_Id = p.Product_Id
8   GROUP BY o.Order_Id, o.Ordered_Date;
9
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| Order_Id | Ordered_Date | Total_Price |
|---|---|---|
| 1 | 2005-01-10 | 18400 |
| 2 | 2006-02-10 | 38700 |
| 3 | 2005-03-20 | 88240 |
| 4 | 2006-03-10 | 7600 |
| 5 | 2007-04-05 | 41600 |
| 6 | 2006-12-13 | 3210 |
| 7 | 2008-03-13 | 2100 |
| 8 | 2004-11-29 | 46300 |
| 9 | 2005-01-13 | 58050 |
| 10 | 2007-12-12 | 19000 |

## 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;

```
1    -- 3. Fetch the Customer Name, who has not placed any order
2
3 •  SELECT c.Customer_Name
4    FROM customer c
5    LEFT JOIN `order` o ON c.Customer_Id = o.Customer_Id
6    WHERE o.Customer_Id IS NULL;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| Customer_Name |
| --- |
| David |

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

SELECT p.*

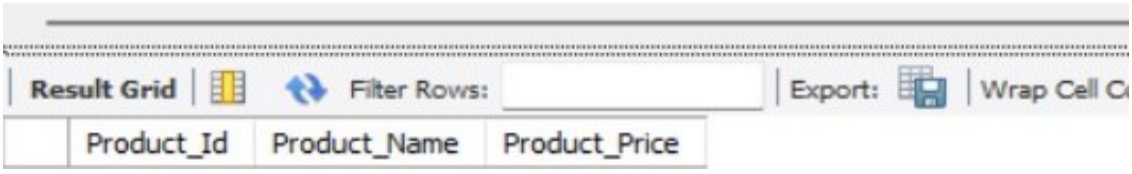
FROM product p

LEFT JOIN order_details od

ON p.Product_Id=od.Product_Id WHERE

p.Product_Id IS NULL;

```
1      -- 4. Fetch the Product Details without any order(p
2
3  •   SELECT p.*
4      FROM product p
5      LEFT JOIN order_details od
6          ON p.Product_Id = od.Product_Id
7      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;
```

```
1    -- 5. Fetch the Customer name along with the total Purchase Amount
2
3 •  SELECT c.Customer_Name,
4        SUM(p.Product_Price * od.Quantity) AS Total_Purshase_Amount
5    FROM customer c
6    INNER JOIN `order` o ON c.Customer_Id = o.Customer_Id
7    INNER JOIN order_details od ON o.Order_Id = od.Order_Id
8    INNER JOIN product p ON od.Product_Id = p.Product_Id
9    GROUP BY c.Customer_Id, c.Customer_Name;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| Customer_Name | Total_Purshase_Amount |
|---|---|
| John | 60600 |
| Smith | 38700 |
| Ricky | 95840 |
| Walsh | 18400 |
| Stefen | 58050 |
| Fleming | 48400 |
| Thomson | 3210 |

## 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`),
        (SELECTMAX(Ordered_Date)FROM`order`)
);
```

```
1   -- 6. Fetch the Customer details, who has placed the first and last order
2
3   SELECT c.*, o.Ordered_Date AS First_and_Last_Order
4   FROM customer c
5   JOIN `order` o
6       ON c.Customer_Id = o.Customer_Id
7   WHERE o.Ordered_Date IN (
8       (SELECT MIN(Ordered_Date) FROM `order`),
9       (SELECT MAX(Ordered_Date) FROM `order`)
10  );
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| Customer_Id | Customer_Name | First_and_Last_Order |
|---|---|---|
| 6 | Fleming | 2004-11-29 |
| 6 | Fleming | 2008-03-13 |

## 7. Fetch the customer details, who has place dagreater number of orders.

```
SELECT c.*,
        COUNT(o.Order_Id)ASTotal_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;
```

```
1    -- 7. Fetch the customer details, who has placed a greater number of orders
2
3 •  SELECT c.*, COUNT(o.Order_Id) AS Total_Orders
4    FROM customer c
5    LEFT JOIN `order` o ON c.Customer_Id = o.Customer_Id
6    GROUP BY c.Customer_Id, c.Customer_Name
7    ORDER BY Total_Orders DESC
8    LIMIT 1;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

| Customer_Id | Customer_Name | Total_Orders |
|---|---|---|
| 1 | John | 2 |

## 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;
```

```
1     -- 8. Fetch the customer details, who has placed multiple orders in the same year
2
3 •   SELECT c.*,
4         YEAR(o.Ordered_Date) AS Order_Year,
5         COUNT(o.Order_Id) AS Total_Orders
6     FROM customer c
7     LEFT JOIN `order` o ON c.Customer_Id = o.Customer_Id
8     GROUP BY c.Customer_Id, c.Customer_Name,
9         YEAR(o.Ordered_Date)
10    HAVING COUNT(o.Order_Id) > 1;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| Customer_Id | Customer_Name | Order_Year | Total_Orders |
|---|---|---|---|
| 1 | John | 2007 | 2 |

## 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;
```

```
1   /*
2   9. Fetch the name of the month, in which a
3   greater number of orders has been placed
4   */
5
6   SELECT MONTHNAME(o.Ordered_Date) AS Month_Name,
7       COUNT(o.Order_Id) AS Total_Orders
8   FROM `Order` o
9   GROUP BY MONTH(o.Ordered_Date)
10  ORDER BY Total_Orders DESC
11  LIMIT 1;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| Month_Name | Total_Orders |
|---|---|
| March | 3 |

## 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;
```

```
1    -- 10. Fetch the maximum priced Ordered Product
2
3 •  SELECT p.*
4    FROM product p
5    INNER JOIN order_details od
6        ON p.Product_Id = od.Product_Id
7    ORDER BY p.Product_Price DESC
8    LIMIT 1;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Co

| Product_Id | Product_Name | Product_Price |
|---|---|---|
| 4 | Computer | 35900 |