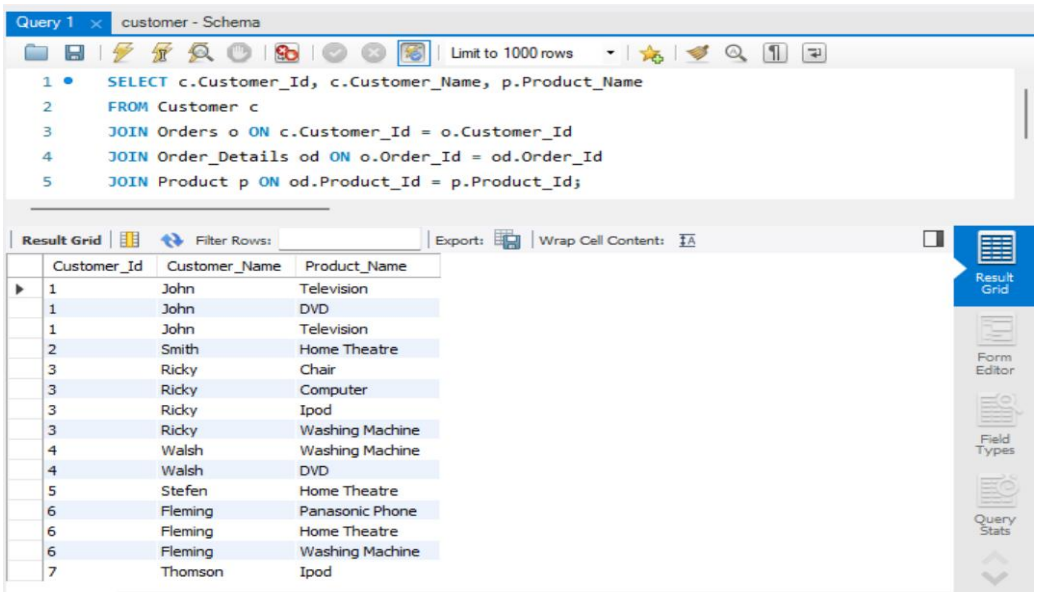
Assignment-2

1) **Fetch <u>all the</u> Customer Details along with the product names that the customer has ordered.**

QUERY:
```
SELECT c.Customer_Id, c.Customer_Name, p.Product_Name
FROM Customer c
JOIN Orders o ON c.Customer_Id = o.Customer_Id
JOIN Order_Details od ON o.Order_Id = od.Order_Id
JOIN Product p ON od.Product_Id = p.Product_Id;
```

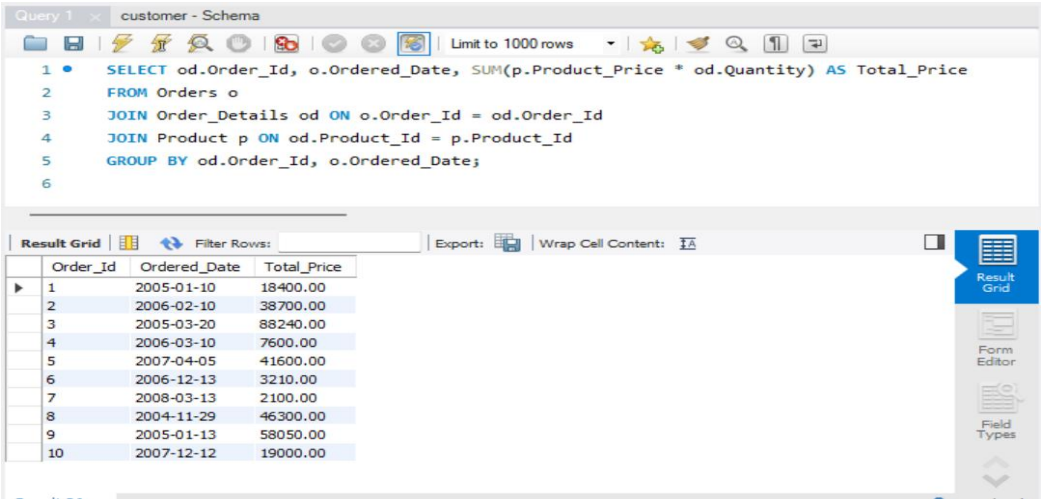
OUTPUT:



2) **Fetch Order_Id, Ordered_Date, Total Price of the order (product price*qty).**

QUERY:
```
SELECT od.Order_Id, o.Ordered_Date, SUM(p.Product_Price * od.Quantity) AS
Total_Price
FROM Orders o
JOIN Order_Details od ON o.Order_Id = od.Order_Id
JOIN Product p ON od.Product_Id = p.Product_Id
GROUP BY od.Order_Id, o.Ordered_Date;
```

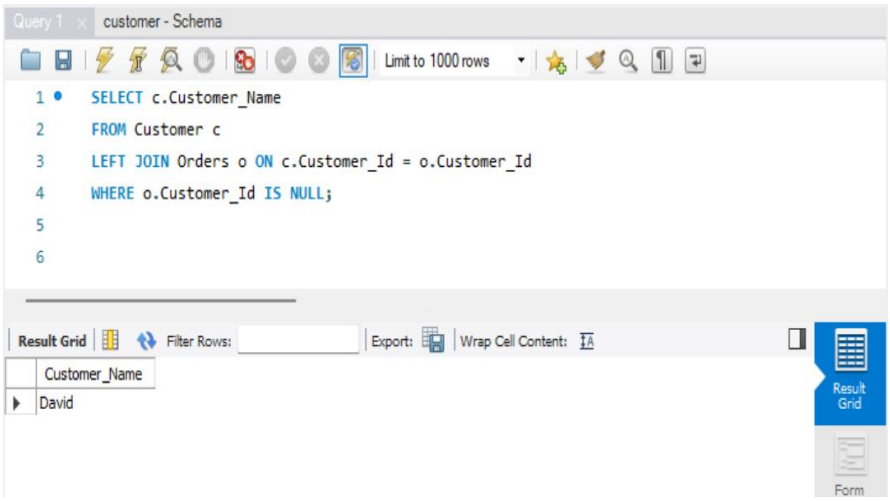
OUTPUT:



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

QUERY: SELECT c.Customer_Name
FROM Customer c
LEFT JOIN Orders o ON c.Customer_Id = o.Customer_Id
WHERE o.Customer_Id IS NULL;

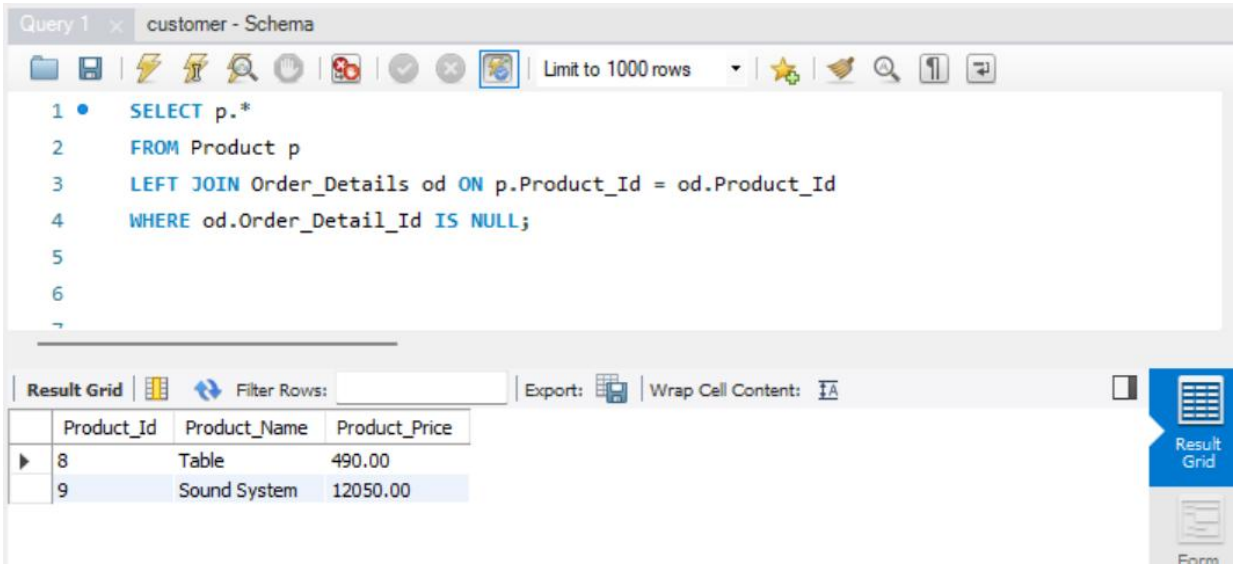
OUTPUT:



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

QUERY: SELECT p.*
FROM Product p
LEFT JOIN Order_Details od ON p.Product_Id = od.Product_Id
WHERE od.Order_Detail_Id IS NULL;

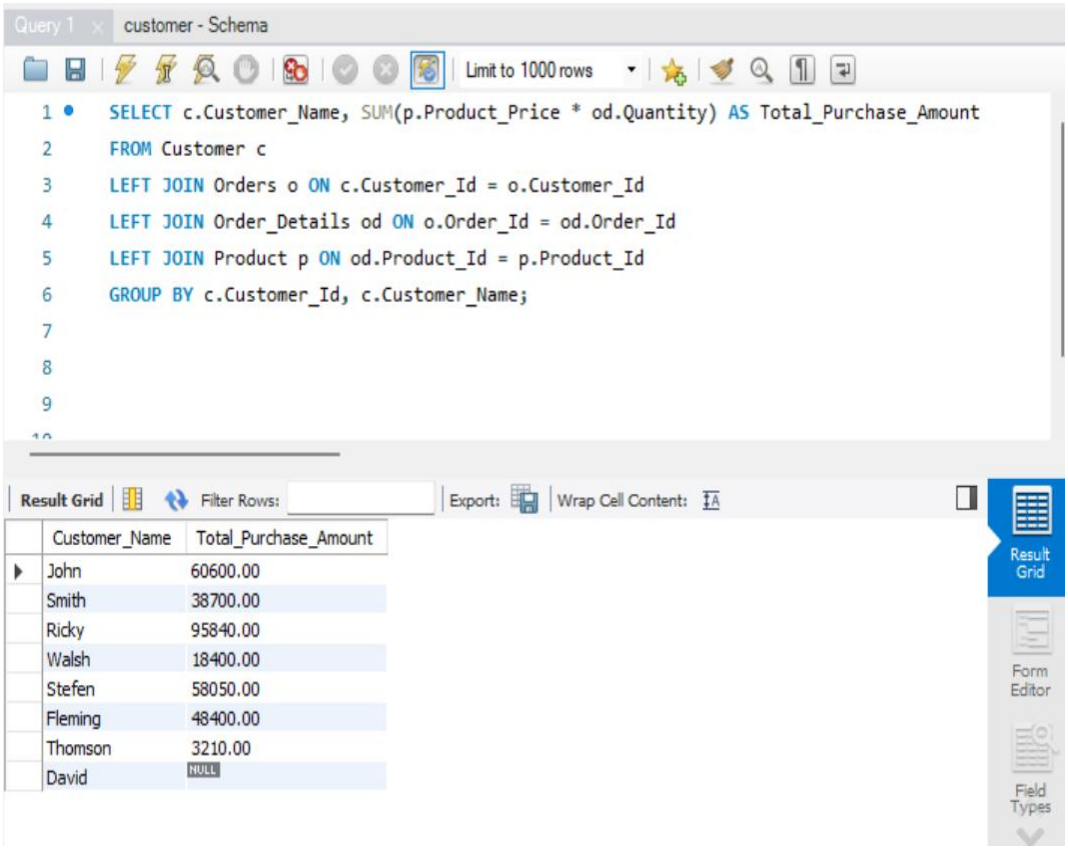
OUTPUT:



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

QUERY: SELECT c.Customer_Name, SUM(p.Product_Price * od.Quantity) AS Total_Purchase_Amount
FROM Customer c
LEFT JOIN Orders o ON c.Customer_Id = o.Customer_Id
LEFT JOIN Order_Details od ON o.Order_Id = od.Order_Id
LEFT JOIN Product p ON od.Product_Id = p.Product_Id
GROUP BY c.Customer_Id, c.Customer_Name

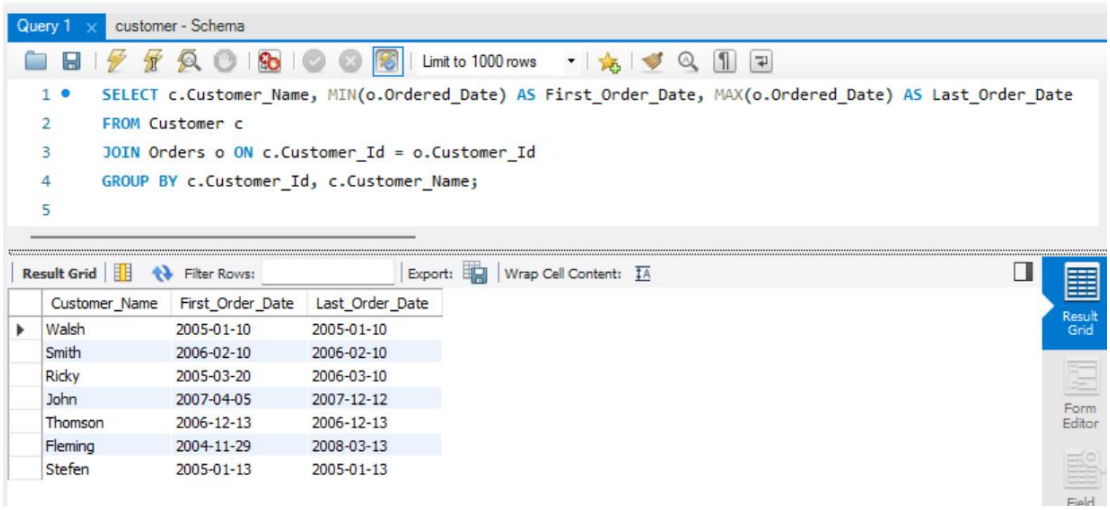
OUTPUT:



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

QUERY: SELECT c.Customer_Name, MIN(o.Ordered_Date) AS First_Order_Date, MAX(o.Ordered_Date) AS Last_Order_Date
FROM Customer c
JOIN Orders o ON c.Customer_Id = o.Customer_Id
GROUP BY c.Customer_Id, c.Customer_Name;

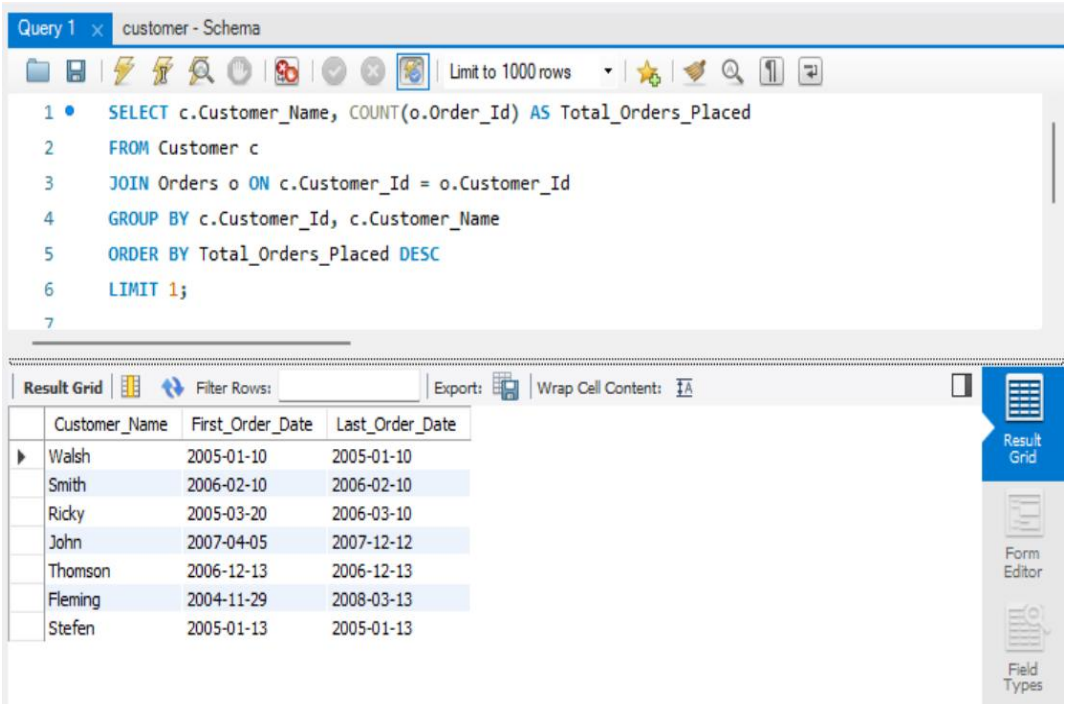
OUTPUT:



7) Fetch the customer details , who has placed more number of orders

QUERY:
```
SELECT c.Customer_Name, COUNT(o.Order_Id) AS Total_Orders_Placed
FROM Customer c
JOIN Orders o ON c.Customer_Id = o.Customer_Id
GROUP BY c.Customer_Id, c.Customer_Name
ORDER BY Total_Orders_Placed DESC
LIMIT 1;
```

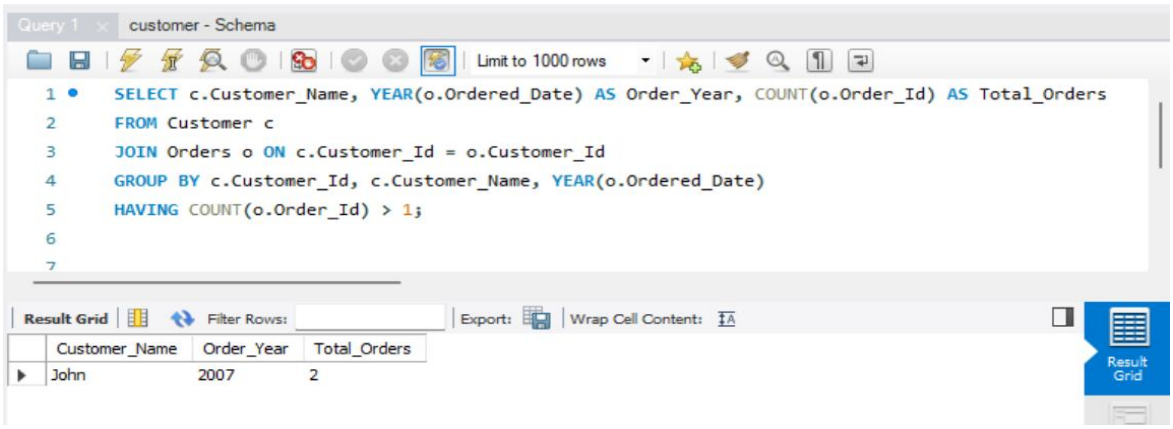
OUTPUT:



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

QUERY: SELECT c.Customer_Name, YEAR(o.Ordered_Date) AS Order_Year, COUNT(o.Order_Id) AS Total_Orders
FROM Customer c
JOIN Orders 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;

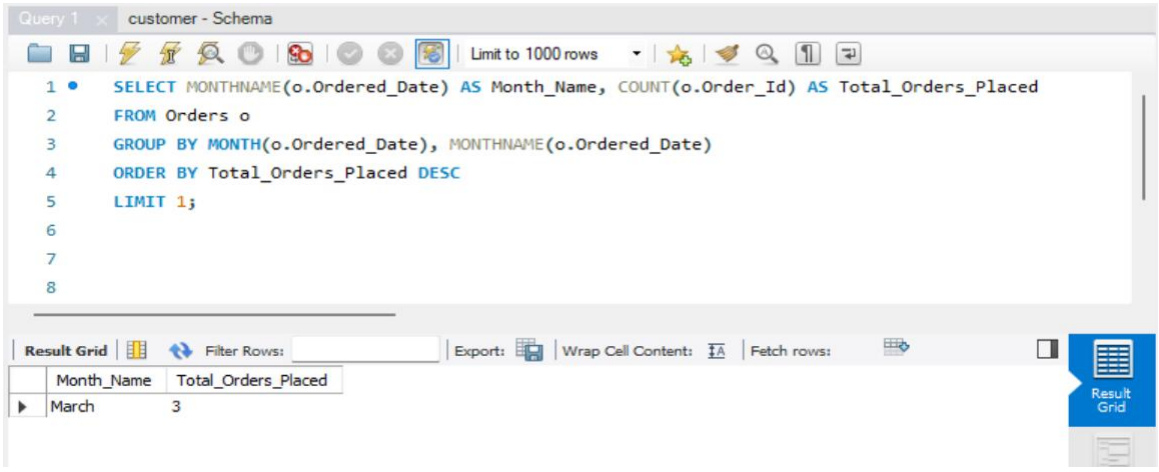
OUTPUT:



9) Fetch the name of the month, in which more number of orders has been placed

QUERY: SELECT MONTHNAME(o.Ordered_Date) AS Month_Name, COUNT(o.Order_Id) AS Total_Orders_Placed
FROM Orders o
GROUP BY MONTH(o.Ordered_Date), MONTHNAME(o.Ordered_Date)
ORDER BY Total_Orders_Placed DESC
LIMIT 1;

OUTPUT:



10) Fetch the maximum priced <u>Ordered Product</u>

QUERY: SELECT p.*
FROM Product p
JOIN Order_Details od ON p.Product_Id = od.Product_Id
ORDER BY p.Product_Price DESC
LIMIT 1;

OUTPUT: