DATABASE REPORT

SUBMITTED TO
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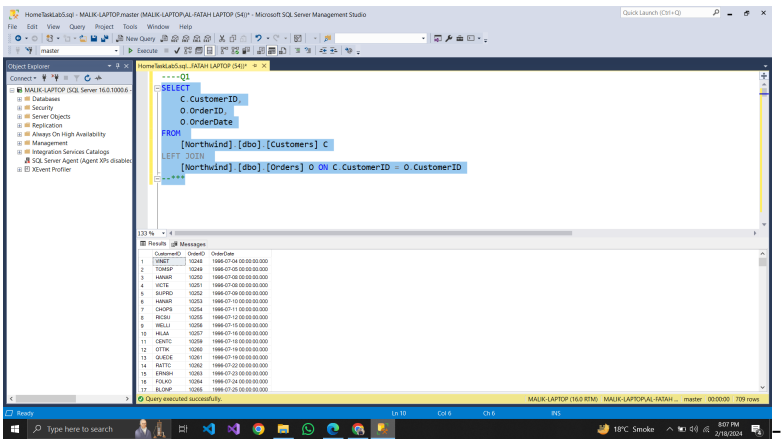
0.1 Db Report

0.1.1 Home Task

0.1.2 Query 1

Return customers and their orders, including customers who placed no orders (CustomerID, OrderID, OrderDate)

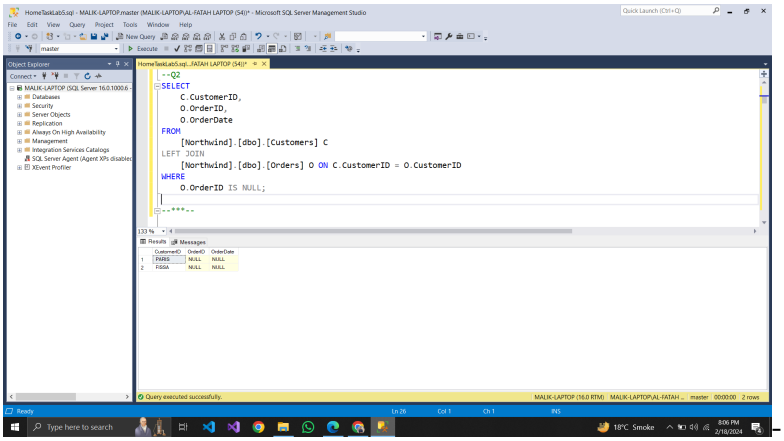
```
1  --Q1
2  -- Query 1
3  SELECT
4      C.CustomerID,
5      O.OrderID,
6      O.OrderDate
7  FROM
8      [Northwind].[dbo].[Customers] C
9  LEFT JOIN
10     [Northwind].[dbo].[Orders] O ON C.CustomerID = O.
           CustomerID
11 ***
```



0.1.3 Query2:

Report only those customer IDs who never placed any order. (CustomerID, OrderID, OrderDate)

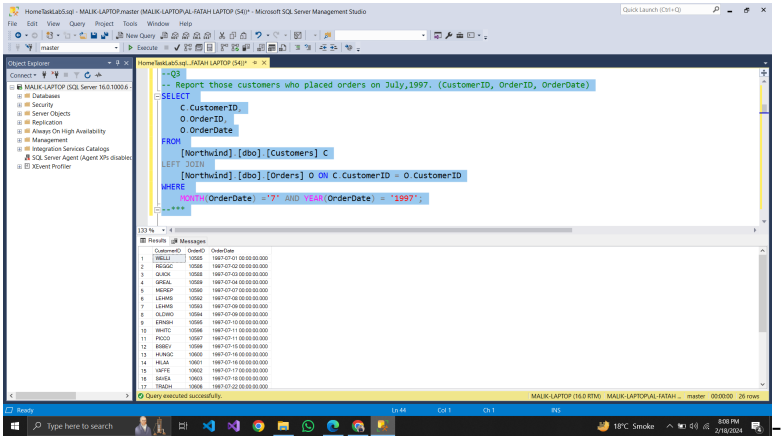
```
1  --Q2
2  SELECT
3      C.CustomerID,
4      O.OrderID,
5      O.OrderDate
6  FROM
7      [Northwind].[dbo].[Customers] C
8  LEFT JOIN
9      [Northwind].[dbo].[Orders] O ON C.CustomerID = O.
           CustomerID
10 WHERE
11     O.OrderID IS NULL
12 --****--
13 ***
```



0.1.4 Query3:

Report the total orders of each customer. (customerID, totalorders)

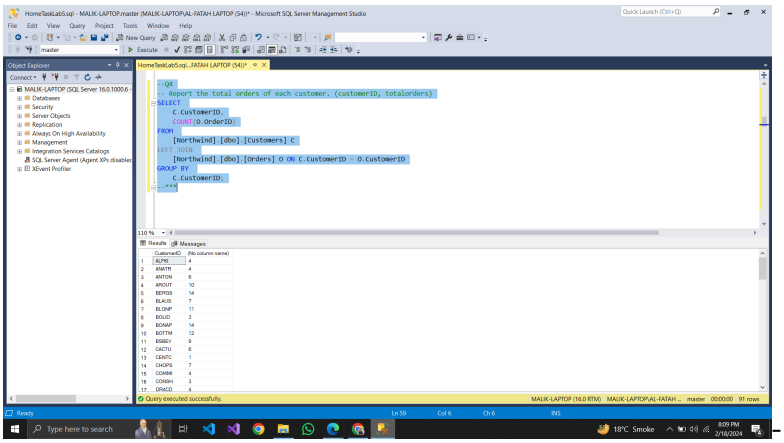
```
1  --Q3
2  -- Report those customers who placed orders on July,1997.
       (CustomerID, OrderID, OrderDate)
3  SELECT
4      C.CustomerID,
5      O.OrderID,
6      O.OrderDate
7  FROM
8      [Northwind].[dbo].[Customers] C
9  LEFT JOIN
10     [Northwind].[dbo].[Orders] O ON C.CustomerID = O.
           CustomerID
11 WHERE
12         MONTH(OrderDate) ='7' AND YEAR(OrderDate) = '1997
               ';
13 --***
14
15 ***
```



0.1.5 Query4:

Report the total orders of each customer. (customerID, totalorders)

```
--Q4
-- Report the total orders of each customer. (customerID, totalorders)
SELECT
        C.CustomerID,
        COUNT(O.OrderID)
FROM
        [Northwind].[dbo].[Customers] C
LEFT JOIN
        [Northwind].[dbo].[Orders] O ON C.CustomerID = O.CustomerID
GROUP BY
    C.CustomerID;
***
```

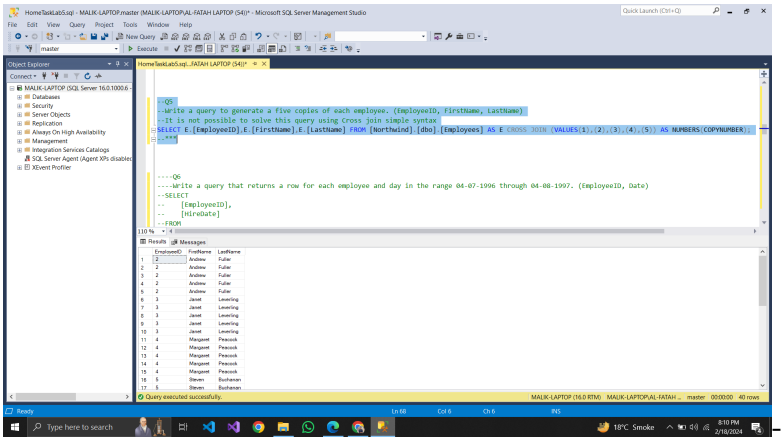


0.1.6 Query5:

Write a query to generate a five copies of each employee. (EmployeeID, FirstName, LastName)

```
--Q5
--Write a query to generate a five copies of each employee. (EmployeeID, FirstName, LastName)
```

```
--It is not possible to solve this query using Cross join simple syntax
SELECT E.[EmployeeID],E.[FirstName],E.[LastName] FROM [Northwind].[dbo].[Employees] AS E CROSS JOIN (VALUES(1),(2),(3),(4),(5)) AS NUMBERS(COPYNUMBER);
--***
```

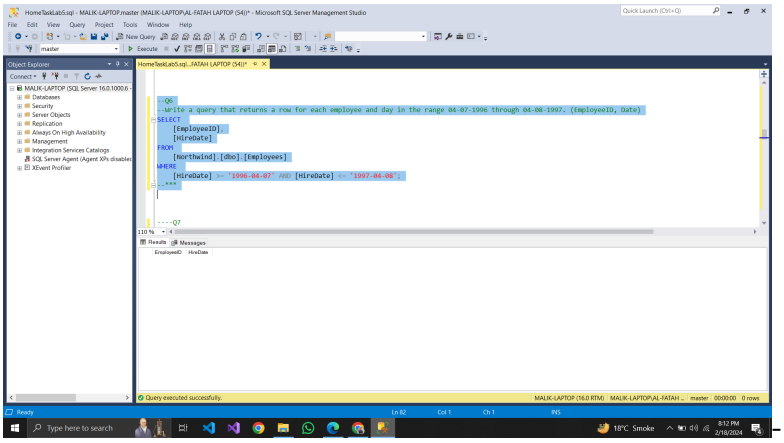


0.1.7 Query6:

Write a query that returns a row for each employee and day in the range 04-07-1996 through 04-08- 1997. (EmployeeID, Date)

```
--Q6
--Write a query that returns a row for each employee and day in the range 04-07-1996 through 04-08-1997. (EmployeeID, Date)
SELECT
    [EmployeeID],
    [HireDate]
FROM
    [Northwind].[dbo].[Employees]
WHERE
```

```
9       [HireDate] >= '1996-04-07' AND [HireDate] <= '
            1997-04-08';
10  ***
```

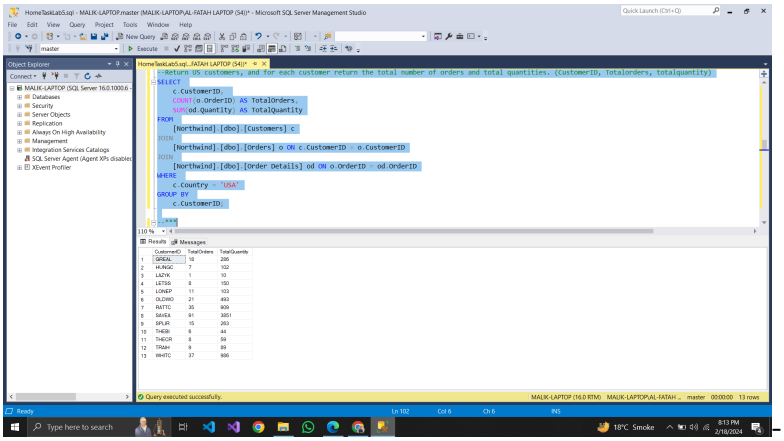


0.1.8 Query7:

Return US customers, and for each customer return the total number of orders and total quantities. (CustomerID, Totalorders, totalquantity)

```
1  ----Q7
2  ----Return US customers, and for each customer return the
       total number of orders and total quantities. (
       CustomerID, Totalorders, totalquantity)
3  --SELECT
4  --      c.CustomerID,
5  --      COUNT(o.OrderID) AS TotalOrders,
6  --      SUM(od.Quantity) AS TotalQuantity
7  --FROM
8  --      [Northwind].[dbo].[Customers] c
9  --JOIN
10 --      [Northwind].[dbo].[Orders] o ON c.CustomerID = o.
       CustomerID
11 --JOIN
```

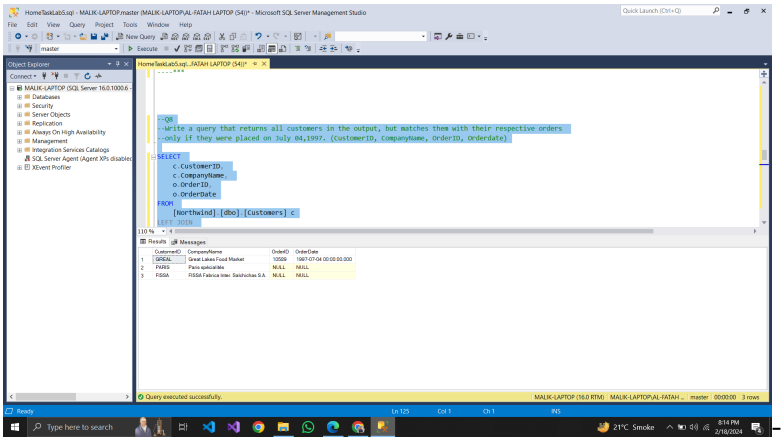
```
12 --      [Northwind].[dbo].[Order Details] od ON o.OrderID =
       od.OrderID
13 --WHERE
14 --      c.Country = 'USA'
15 --GROUP BY
16 --      c.CustomerID;
17
18 ***
```



0.1.9 Query8:

Write a query that returns all customers in the output, but matches them with their respective orders only if they were placed on July 04,1997. (CustomerID, CompanyName, OrderID, Orderdate)

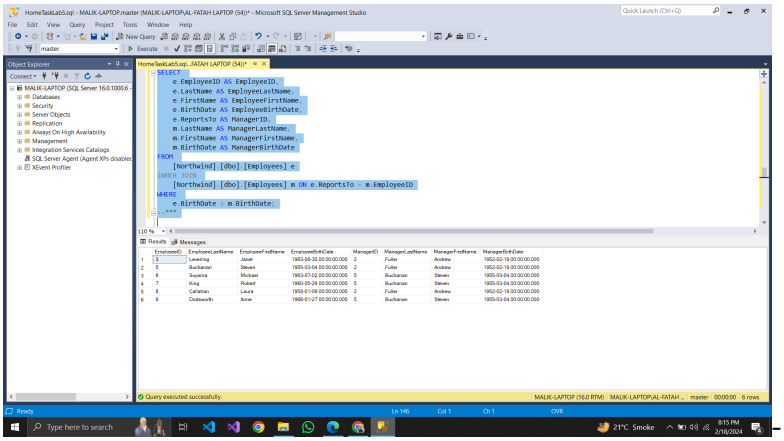
```
1 --Q8
2 SELECT [OrderID], SUM([Discount]) AS [Discount],SUM([
      UNITPRICE]) AS TotalPrice
3 FROM [Northwind].[dbo].[Order Details]
4 GROUP BY [OrderID]
5 HAVING SUM([Discount]) > 0 AND SUM([UNITPRICE])>0;
6 ***
```



0.1.10 Query9:

Are there any employees who are older than their managers?

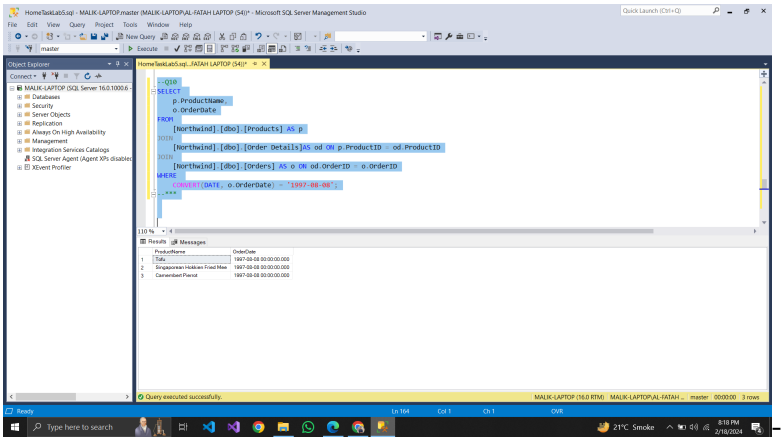
```
--Q9
--Are there any employees who are older than their
    managers?
SELECT
      e.EmployeeID AS EmployeeID,
      e.LastName AS EmployeeLastName,
      e.FirstName AS EmployeeFirstName,
      e.BirthDate AS EmployeeBirthDate,
      e.ReportsTo AS ManagerID,
      m.LastName AS ManagerLastName,
      m.FirstName AS ManagerFirstName,
      m.BirthDate AS ManagerBirthDate
FROM
      [Northwind].[dbo].[Employees] e
INNER JOIN
      [Northwind].[dbo].[Employees] m ON e.ReportsTo = m.
          EmployeeID
WHERE
      e.BirthDate > m.BirthDate;
--***
```



0.1.11 Query10:

List that names of those employees and their ages. (EmployeeName, Age, Manager Age)

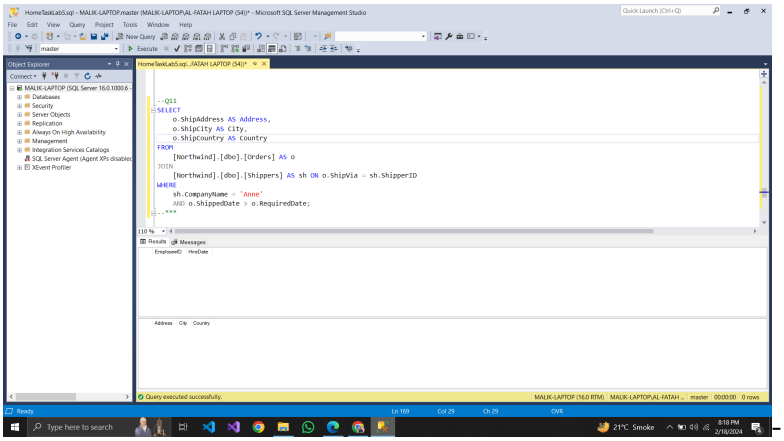
```
----Q10
--SELECT
--      p.ProductName,
--      o.OrderDate
--FROM
--      [Northwind].[dbo].[Products] AS p
--JOIN
--      [Northwind].[dbo].[Order Details]AS od ON p.ProductID = od.ProductID
--JOIN
--      [Northwind].[dbo].[Orders] AS o ON od.OrderID = o.OrderID
--WHERE
--      CONVERT(DATE, o.OrderDate) = '1997-08-08';
----***
```



0.1.12 Query11:

Are there any employees who are older than their managers?

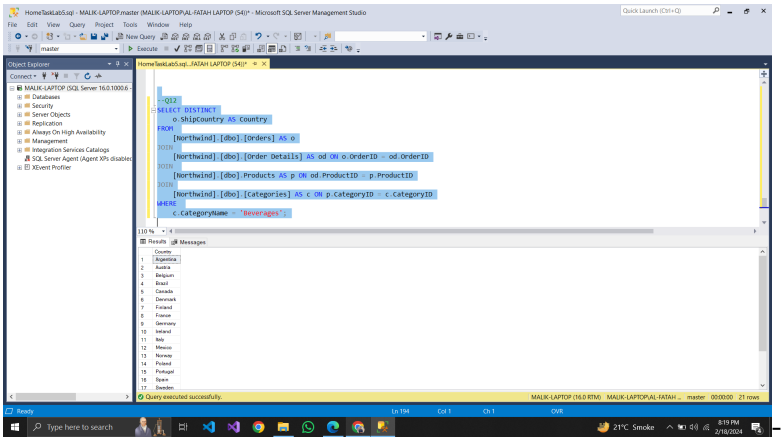
```
--Q11
--Are there any employees who are older than their
    managers?
SELECT
      e.EmployeeID AS EmployeeID,
      e.LastName AS EmployeeLastName,
      e.FirstName AS EmployeeFirstName,
      e.BirthDate AS EmployeeBirthDate,
      e.ReportsTo AS ManagerID,
      m.LastName AS ManagerLastName,
      m.FirstName AS ManagerFirstName,
      m.BirthDate AS ManagerBirthDate
FROM
      [Northwind].[dbo].[Employees] e
INNER JOIN
      [Northwind].[dbo].[Employees] m ON e.ReportsTo = m.
          EmployeeID
WHERE
      e.BirthDate > m.BirthDate;
--***
```



0.1.13 Query12:

Are there any employees who are older than their managers?

```
1
2  --Q12
3  SELECT DISTINCT
4      o.ShipCountry AS Country
5  FROM
6      [Northwind].[dbo].[Orders] AS o
7  JOIN
8      [Northwind].[dbo].[Order Details] AS od ON o.OrderID
           = od.OrderID
9  JOIN
10     [Northwind].[dbo].Products AS p ON od.ProductID = p.
           ProductID
11 JOIN
12     [Northwind].[dbo].[Categories] AS c ON p.CategoryID =
           c.CategoryID
13 WHERE
14     c.CategoryName = 'Beverages';
```


--Q12
SELECT DISTINCT
o.ShipCountry AS Country
FROM
[Northwind].[dbo].[Orders] AS o
JOIN
[Northwind].[dbo].[Order Details] AS od ON o.OrderID = od.OrderID
JOIN
[Northwind].[dbo].Products AS p ON od.ProductID = p.ProductID
JOIN
[Northwind].[dbo].[Categories] AS c ON p.CategoryID = c.CategoryID
WHERE
c.CategoryName = 'Beverages';