

# Lab 5 Report



Session: 2022 – 2026

**Submitted by:**

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Registration No: 2022-CS-150

**Submitted to:**

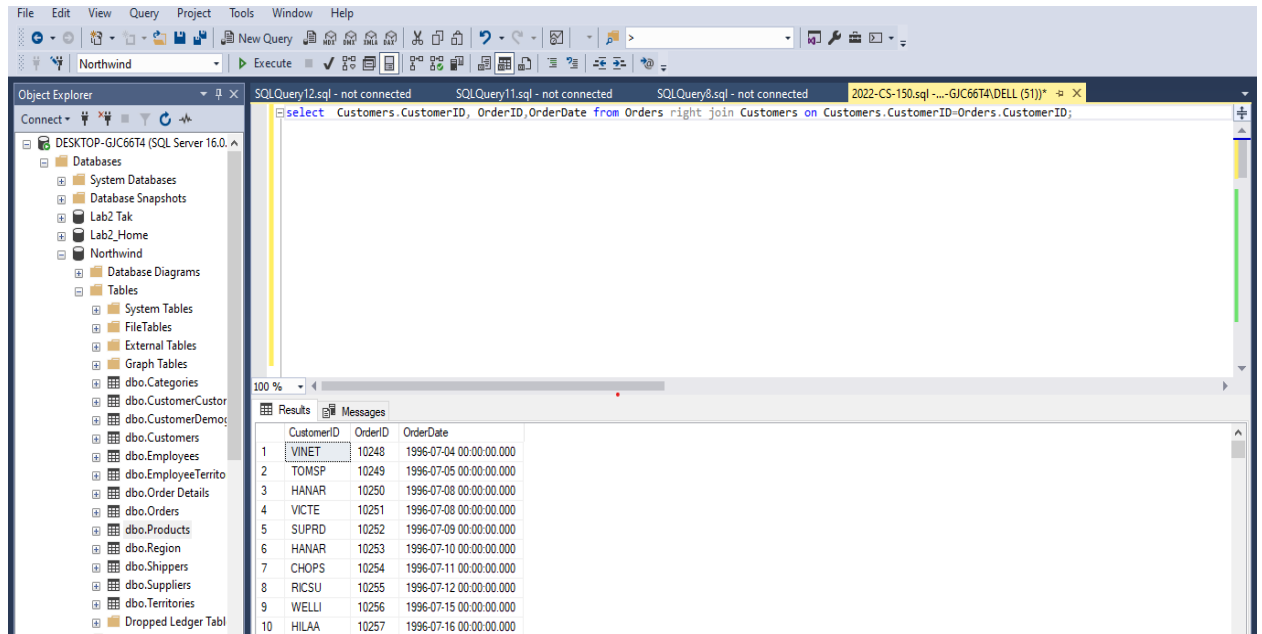
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## Home Task

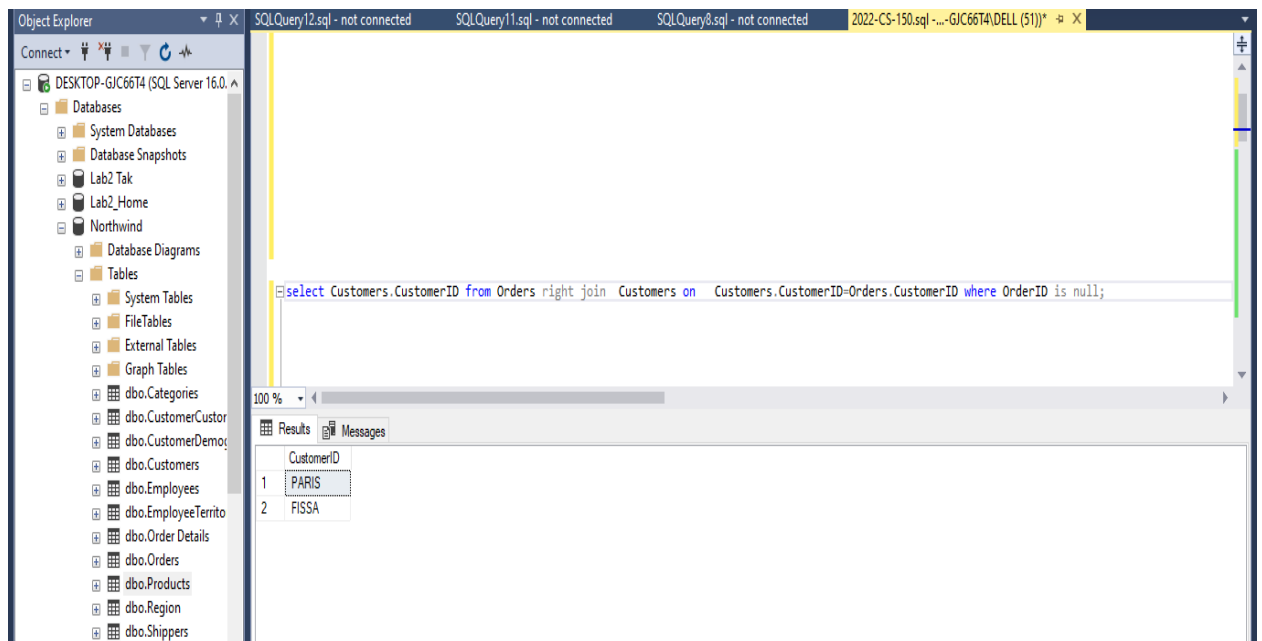
**Q1: List name of all the products whose price is above average. (Product Name)**

```
select Customers.CustomerID, OrderID, OrderDate from Orders right join Customers  
on Customers.CustomerID=Orders.CustomerID; ) ; RequiredDate;
```



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

```
select Customers.CustomerID from Orders right join Customers on Customers.CustomerID=Orders.CustomerID  
where OrderID is null;
```



**Report those customers who placed orders on July,1997. (CustomerID, OrderID, OrderDate)**

```
select Customers.CustomerID, OrderID, OrderDate from Orders left join Customers
on Customers.CustomerID=Orders.CustomerID where YEAR([OrderDate])='1997' and
MONTH(OrderDate)=07
```

Object Explorer

Connect

DESKTOP-GJC66T4 (SQL Server 16.0.)

Databases

System Databases

Database Snapshots

Lab2\_Tak

Lab2\_Home

Northwind

Database Diagrams

Tables

System Tables

FileTables

External Tables

Graph Tables

dbo.Categories

dbo.CustomerCustor

dbo.CustomerDemo

dbo.Customers

dbo.Employees

dbo.EmployeeTerrito

dbo.Order Details

dbo.Orders

dbo.Products

dbo.Region

dbo.Shippers

dbo.Suppliers

dbo.Territories

Dropped Ledger Tabl

SQLQuery12.sql - not connected

SQLQuery11.sql - not connected

SQLQuery8.sql - not connected

2022-CS-150.sql - GJC66T4\DELL (511)\*

```
select Customers.CustomerID, OrderID, OrderDate from Orders left join Customers on Customers.CustomerID=Orders.CustomerID where YEAR([OrderDate])=1
```

Results

	CustomerID	OrderID	OrderDate
1	WELLI	10585	1997-07-01 00:00:00.000
2	REGGC	10586	1997-07-02 00:00:00.000
3	QUICK	10588	1997-07-03 00:00:00.000
4	GREAL	10589	1997-07-04 00:00:00.000
5	MEREP	10590	1997-07-07 00:00:00.000
6	LEHMS	10592	1997-07-08 00:00:00.000
7	LEHMS	10593	1997-07-09 00:00:00.000
8	OLDWO	10594	1997-07-09 00:00:00.000
9	ERNSH	10595	1997-07-10 00:00:00.000
10	WHITC	10596	1997-07-11 00:00:00.000

**Q4:Report the total orders of each customer. (customerID, totalorders)**

select CustomerID,Count(\*) as [Total Orders] from Orders group by CustomerID;

Object Explorer

Connect

DESKTOP-GJC66T4 (SQL Server 16.0.)

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dbo.Territories

SQLQuery12.sql - not connected

SQLQuery11.sql - not connected

SQLQuery8.sql - not connected

2022-CS-150.sql - GJC66T4\DELL (511)\*

```
select CustomerID,Count(*) as [Total Orders] from Orders group by CustomerID;
```

Results

	CustomerID	Total Orders
1	ALFKI	4
2	ANATR	4
3	ANTON	6
4	AROUT	10
5	BERGS	14
6	BLAUS	7
7	BLONP	11
8	BOLID	3
9	BONAP	14

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

It have no anwser

The screenshot shows the SQL Server Enterprise Manager interface. The Object Explorer on the left displays the database structure for 'DESKTOP-GJC66T4 (SQL Server 16.0)'. The main window shows a query in the SQL Query window:

```
select Customers.CustomerID, COUNT(Orders.CustomerID) as TotalOrders, SUM([Order Details].Quantity) as TotalQuantity from Customers join Orders on Or
```

The Results pane shows the following data:

CustomerID	TotalOrders	TotalQuantity
1	21	493
2	6	44
3	1	10
4	35	909
5	11	103
6	91	3851
7	18	286
8	15	263
9	8	150
10	7	102
11	8	60

**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)**

It have no answer

The screenshot shows the SQL Server Enterprise Manager interface. The Object Explorer on the left displays the database structure for 'DESKTOP-GJC66T4 (SQL Server 16.0)'. The main window shows a query in the SQL Query window:

```
select Orders.ShipAddress, Orders.ShipCity, Orders.ShipCountry from Orders join Employees on Orders.EmployeeID=Employees.EmployeeID join Customers on
```

The Results pane shows the following data:

ShipAddress	ShipCity	ShipCountry
1	8 Johnstown Road	Cork Ireland
2	Canera 22 con Ave. Carlos Soublette #8-35	San Cristóbal Venezuela
3	Av. del Libertador 900	Buenos Aires Argentina
4	C/ Araquil, 67	Madrid Spain

**Q7:Return US customers, and for each customer return the total number of orders and total quantities. (CustomerID, Totalorders, totalquantity)**

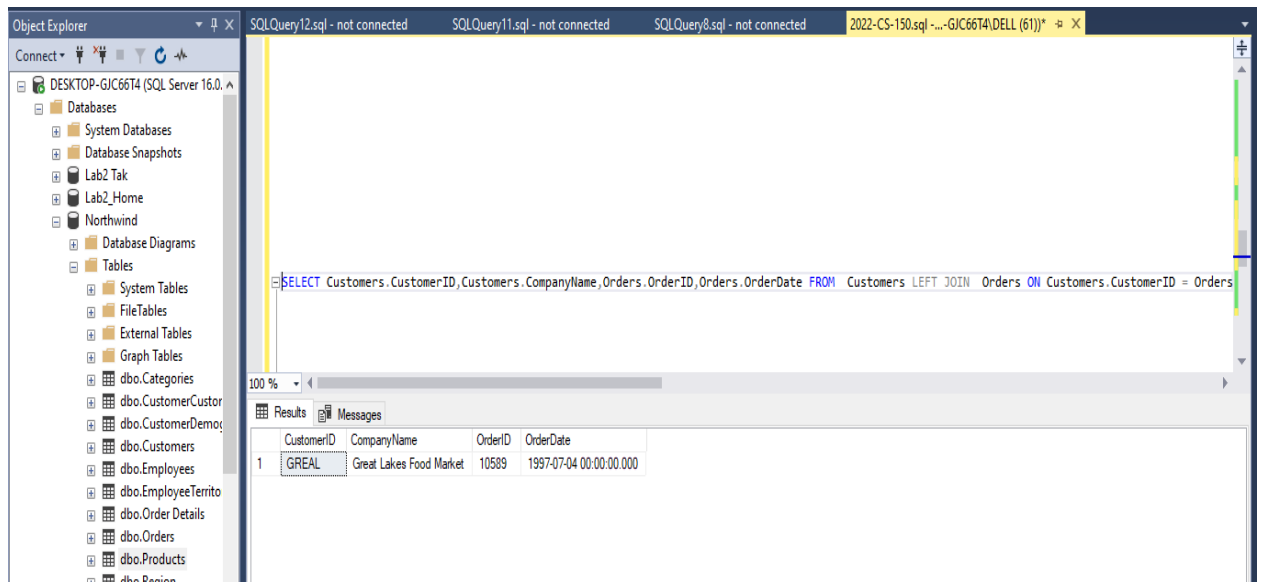
```
select Customers.CustomerID,COUNT(Orders.CustomerID) as TotalOrders,Sum([Order
Details].Quantity) as TotalQuantity from Customers join Orders on Orders.CustomerID=Customers.CustomerID
join [Order Details] on Orders.OrderID=[Order Details].OrderID where Customers.Country='USA'
group by Customers.CustomerID;
```

The screenshot shows the SQL Server Enterprise Manager interface. The Object Explorer on the left displays the database structure for 'DESKTOP-GJC66T4 (SQL Server 16.0.)'. The main window shows a query in the SQL Query window, and the Results pane displays the output of the query. The query is: `select Customers.CustomerID,COUNT(Orders.CustomerID) as TotalOrders,Sum([Order Details].Quantity) as TotalQuantity from Customers join Orders on Orders.CustomerID=Customers.CustomerID join [Order Details] on Orders.OrderID=[Order Details].OrderID where Customers.Country='USA' group by Customers.CustomerID;`

CustomerID	TotalOrders	TotalQuantity
1 OLDWO	21	493
2 THEBI	6	44
3 LAZYK	1	10
4 RATTG	35	909
5 LONEP	11	103
6 SAVEA	91	3851
7 GREAL	18	286
8 SPUR	15	263
9 LETSS	8	150
10 HUNGC	7	102
11 THERR	8	84

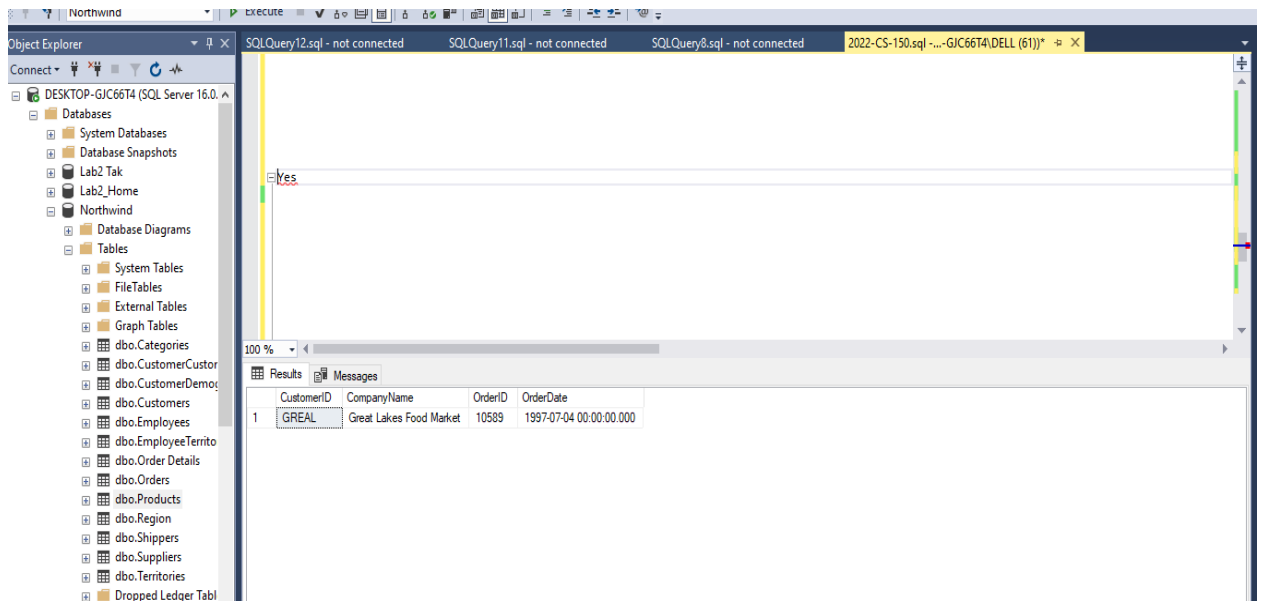
**Q8:Report all the orders which have been discounted with total price of order. Your result should show the total discount against each order. Output should look like this: (Order ID, Discount, Total Price)**

```
SELECT OrderID, SUM(Discount)AS Discount,SUM(UnitPrice) As [Total Price] FROM
[Order Details] GROUP BY OrderID HAVING SUM(Discount) > 0;
```



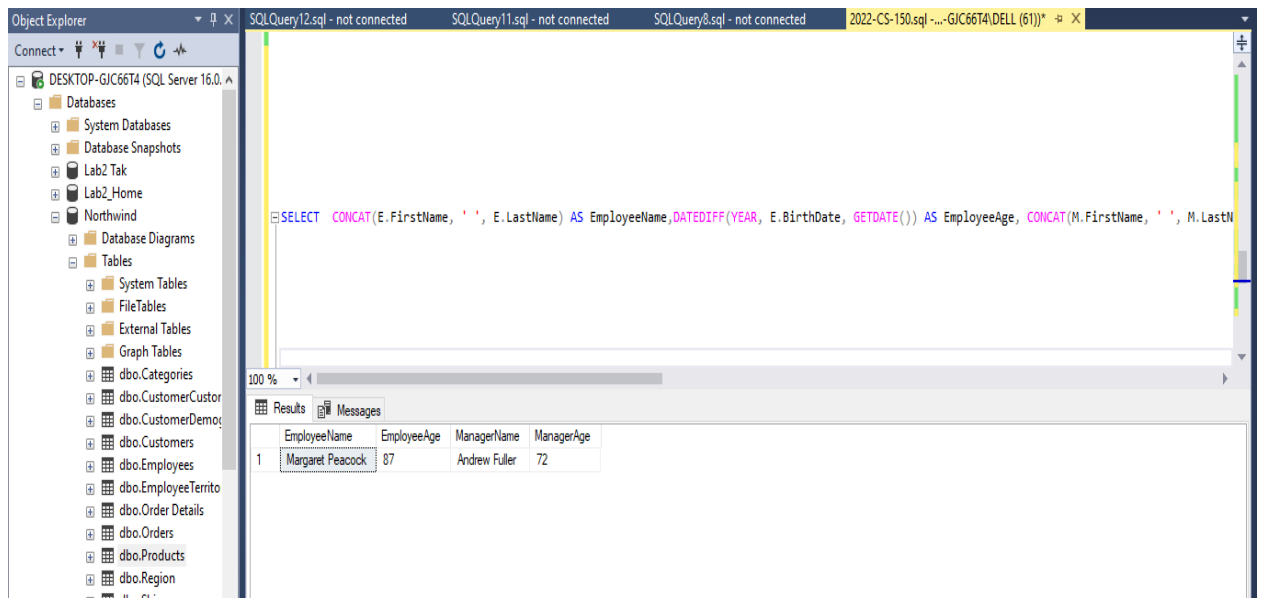
**Q9: Write a query that returns all customers in the output, but matches them with their respective orders only if they were placed on July 04, 1997. (CustomerID, CompanyName, OrderID, Orderdate)**

```
SELECT Customers.CustomerID, Customers.CompanyName, Orders.OrderID, Orders.OrderDate
FROM Customers LEFT JOIN Orders ON Customers.CustomerID = Orders.CustomerID
WHERE CONVERT(DATE, Orders.OrderDate) = '1997-07-04' and Orders.OrderDate
IS not NULL;
```



**Q10: Are there any employees who are older than their managers? • List that names of those employees and their ages. (EmployeeN**

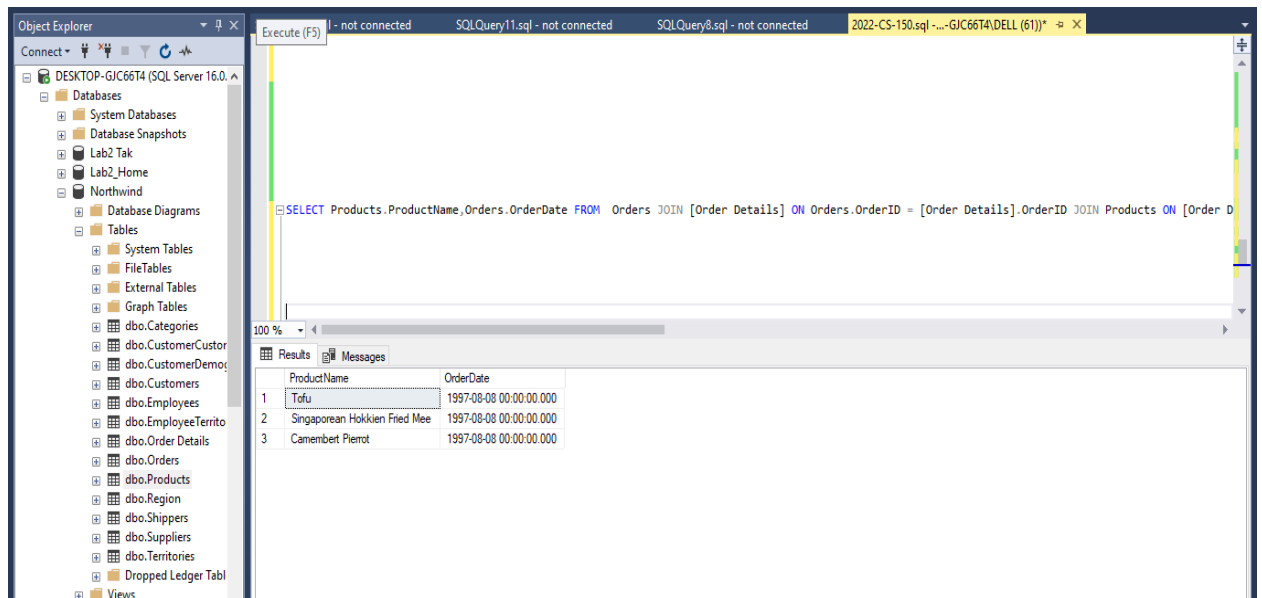
Yes





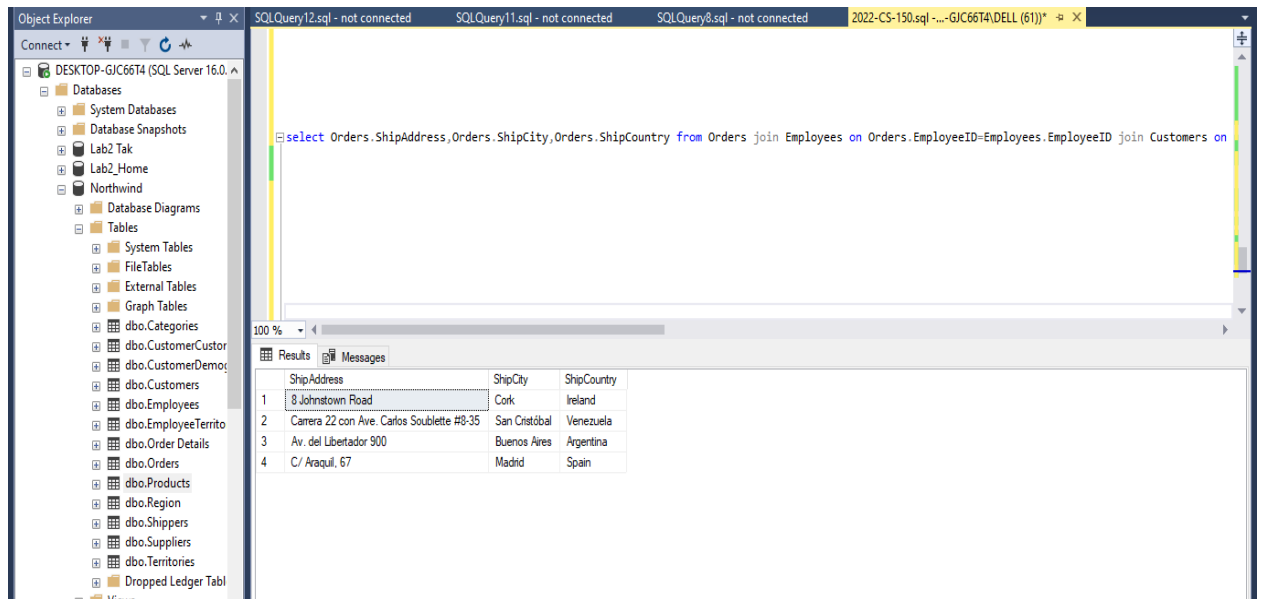
**Q11:List the names of products which were ordered on 8th August 1997.  
(ProductName, OrderDate)**

```
SELECT CONCAT(E.FirstName, ' ', E.LastName) AS EmployeeName, DATEDIFF(YEAR,
E.BirthDate, GETDATE()) AS EmployeeAge, CONCAT(M.FirstName, ' ', M.LastName)
AS ManagerName, DATEDIFF(YEAR, M.BirthDate, GETDATE()) AS ManagerAge
FROM Employees AS E JOIN Employees AS M ON E.ReportsTo = M.EmployeeID
WHERE E.BirthDate < M.BirthDate ORDER BY E.FirstName, E.LastName
```



**Q12:List the addresses, cities, countries of all orders which were serviced  
by Anne and were shipped late. (Address, City, Country)**

```
SELECT Customers.CustomerID, Customers.CompanyName, Orders.OrderID, Orders.OrderDate
FROM Customers LEFT JOIN Orders ON Customers.CustomerID = Orders.CustomerID
WHERE CONVERT(DATE, Orders.OrderDate) = '1997-07-04' and Orders.OrderDate
IS not NULL;
```



**Q13:List all countries to which beverages have been shipped. (Country)**

SELECT ShipCountry FROM Orders JOIN [Order Details] ON Orders.OrderID = [Order Details].OrderID JOIN Products ON [Order Details].ProductID = Products.ProductID  
WHERE Products.ProductName = 'Beverages' AND Orders.ShippedDate IS NOT NULL;

