Database Management System

LAB 05

Session: 2022 – 2026



Submitted by: ALEENA SHEIKH 2022-CS-130 Supervised by: Prof. NAZEEF

Department of Computer Science
University of Engineering and Technology
Lahore

Home Task Queries

Question 01

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

Query:

SELECT Customers.CustomerID, OrderID, OrderDate
FROM Northwind.dbo.Customers join Northwind.dbo.Orders
ON Customers.CustomerID = Orders.CustomerID;

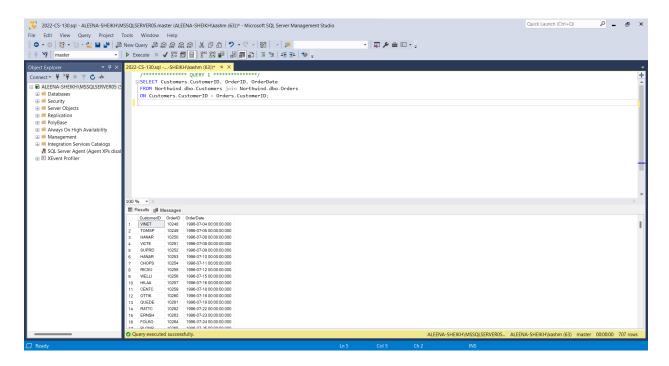


Figure 1: Query 01

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

Query:

SELECT Customers.CustomerID, OrderID, OrderDate FROM Northwind.dbo.Customers join Northwind.dbo.Orders ON Customers.CustomerID = Orders.CustomerID WHERE Orders.OrderID IS NULL;

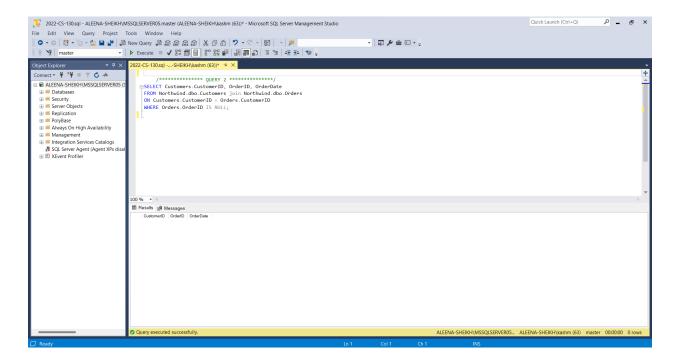


Figure 2: Query 02

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

Query:

SELECT Customers.CustomerID, OrderID, OrderDate
FROM Northwind.dbo.Customers join Northwind.dbo.Orders
ON Customers.CustomerID = Orders.CustomerID

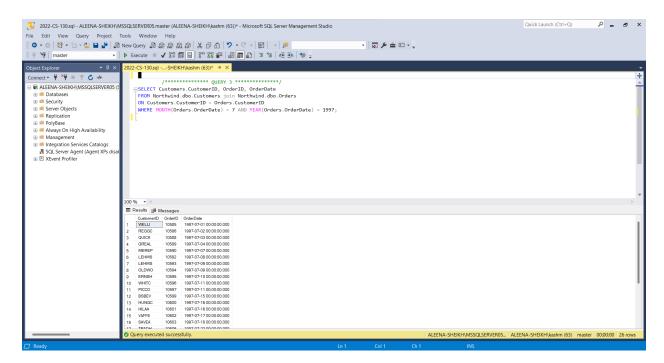


Figure 3: Query 03

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

Query:

SELECT Orders.CustomerID, Count(OrderID) AS totalorders
FROM Northwind.dbo.Orders
Group by Orders.CustomerID;

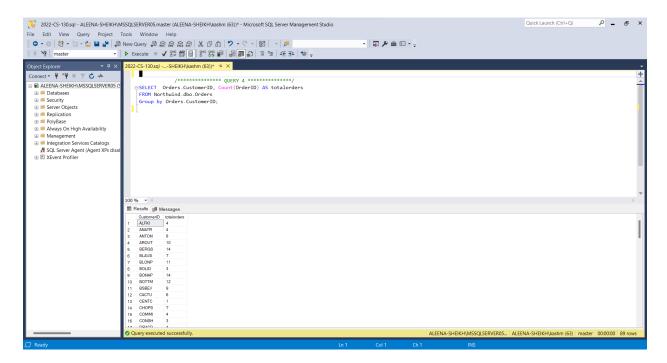


Figure 4: Query 04

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

Query:

SELECT EmployeeID, FirstName, LastName
FROM Northwind.dbo.Employees CROSS JOIN
(SELECT 1 AS n UNION ALL SELECT 2 UNION ALL SELECT 3 UNION ALL SELECT 4 UNION ALL SELECT 5)
AS copies

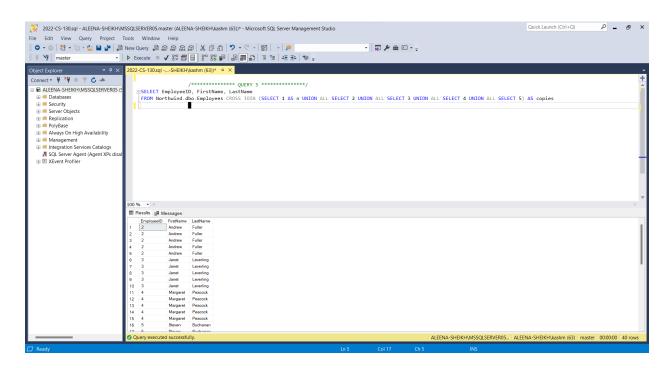


Figure 5: Query 05

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

Query:

SELECT CustomerID, COUNT(OrderID) AS Totalorders, Sum(Quantity) AS totalquantity FROM Northwind.dbo.Customers CROSS JOIN Northwind.dbo.[Order Details] WHERE Country = 'USA' GROUP BY CustomerID ORDER BY CustomerID;

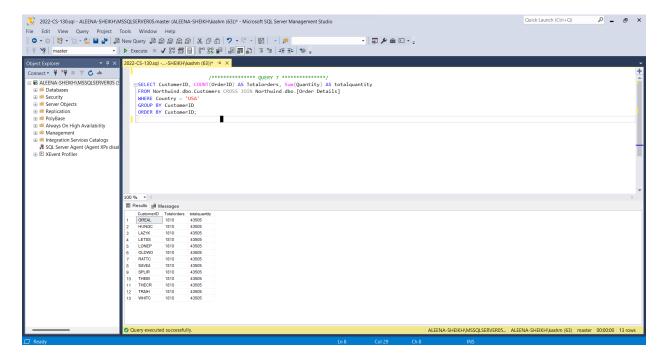


Figure 6: Query 07

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)

Query:

```
SELECT Customers.CustomerID, CompanyName, OrderID, OrderDate FROM Northwind.dbo.Customers CROSS JOIN Northwind.dbo.[Orders] WHERE MONTH(Orders.OrderDate) = 7
AND DAY(Orders.OrderDate) = 4
AND YEAR(Orders.OrderDate) = 1997;
```

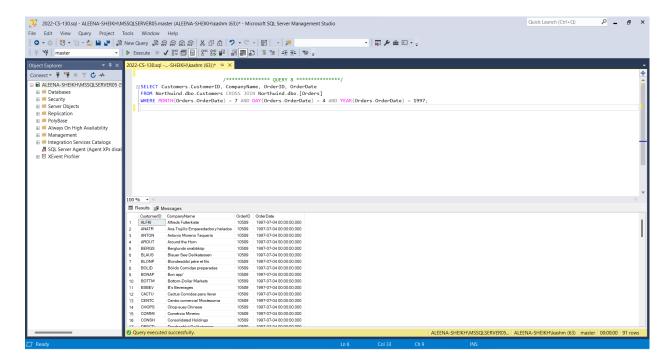


Figure 7: Query 08

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

Query:

SELECT ProductName, OrderDate
FROM Northwind.dbo.Products CROSS JOIN Northwind.dbo.Orders
WHERE MONTH(Orders.OrderDate) = 8 AND DAY(Orders.OrderDate) = 8
AND YEAR(Orders.OrderDate) = 1997;

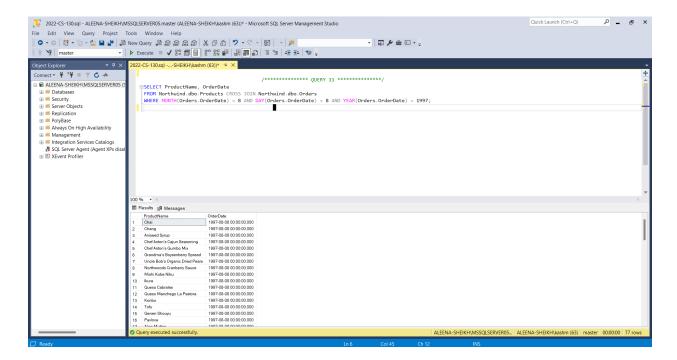


Figure 8: Query 11

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

Query:

SELECT Orders.ShipAddress, Customers.City, Customers.Country
FROM Northwind.dbo.Customers join Northwind.dbo.Orders join Northwind.dbo.Employees
ON CustomerID = Orders.CustomerID
ON Orders.EmployeeID = Employees.EmployeeID
WHERE Employees.FirstName = 'Anne' AND Orders.ShippedDate > Orders.RequiredDate;

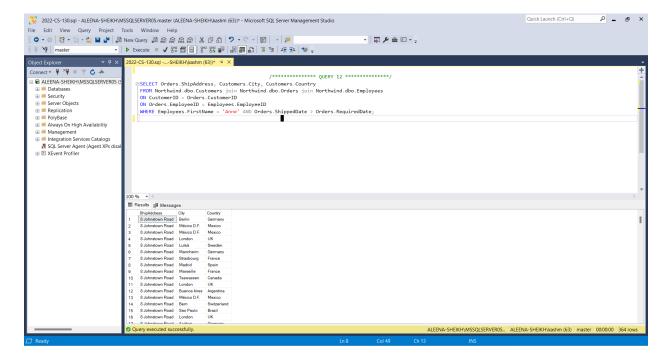


Figure 9: Query 12