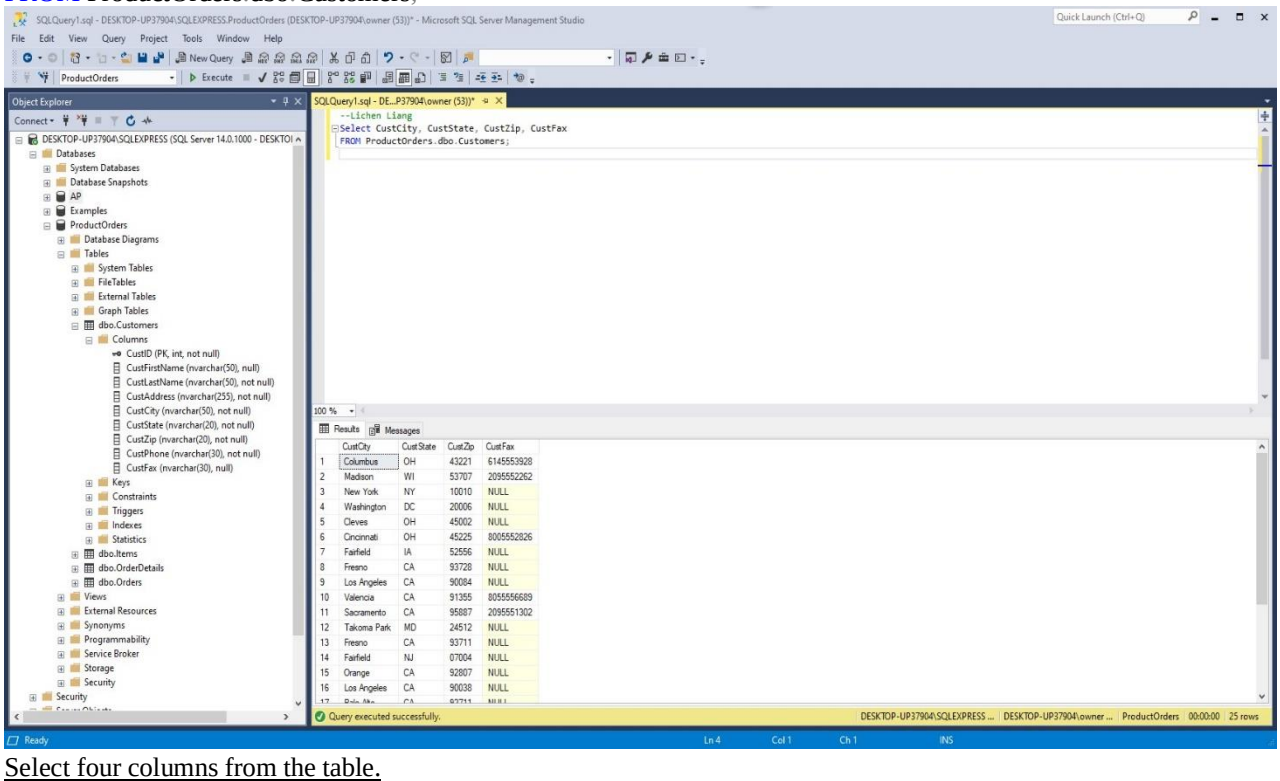
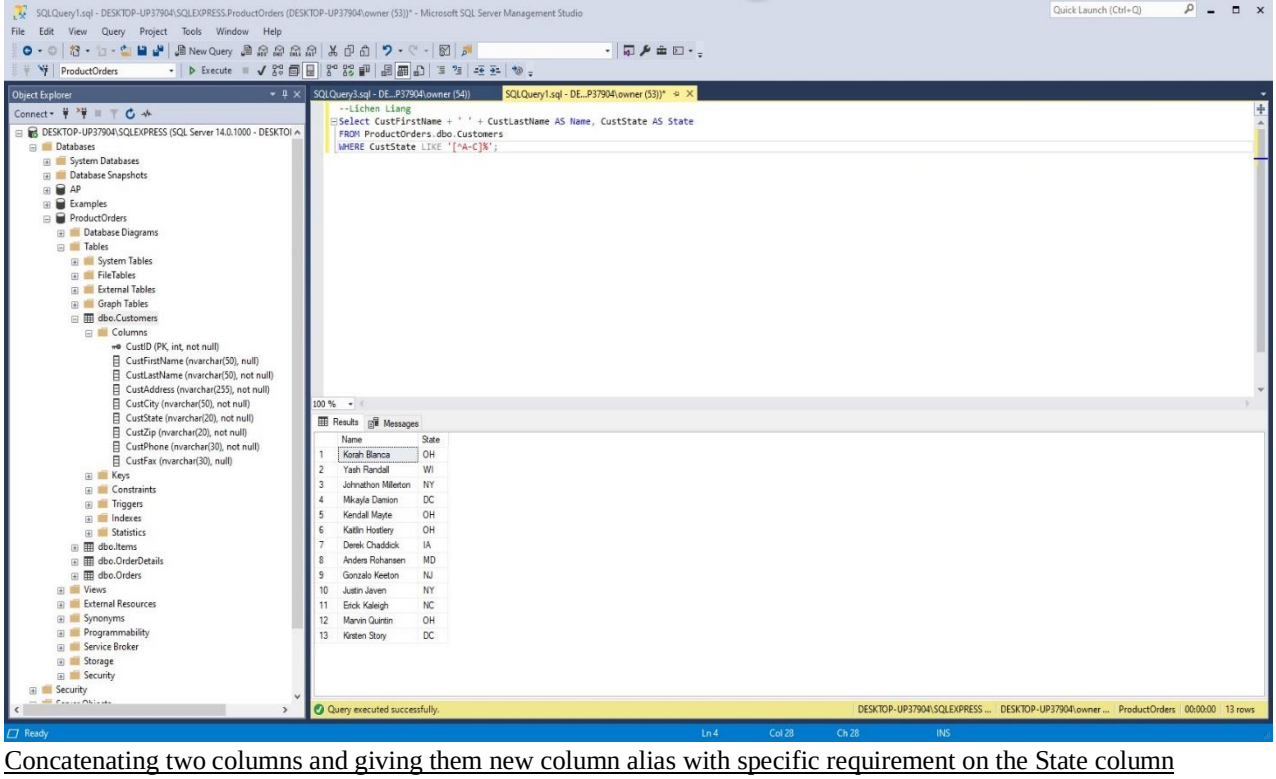
1.
```
Select CustCity, CustState, CustZip, CustFax
FROM ProductOrders.dbo.Customers;
```



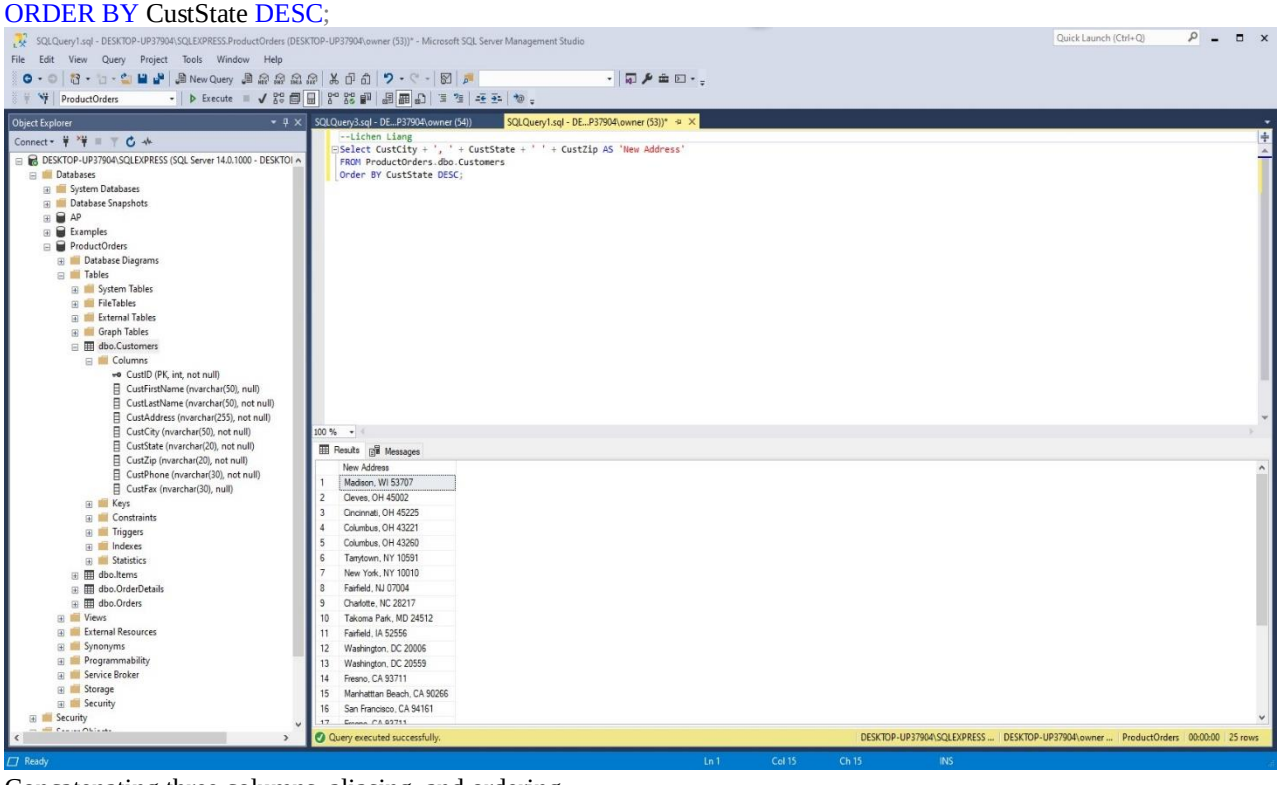
Select four columns from the table.

2.
```
Select CustFirstName + ' ' + CustLastName AS Name, CustState AS State
FROM ProductOrders.dbo.Customers
WHERE CustState LIKE '[^A-C]%';
```



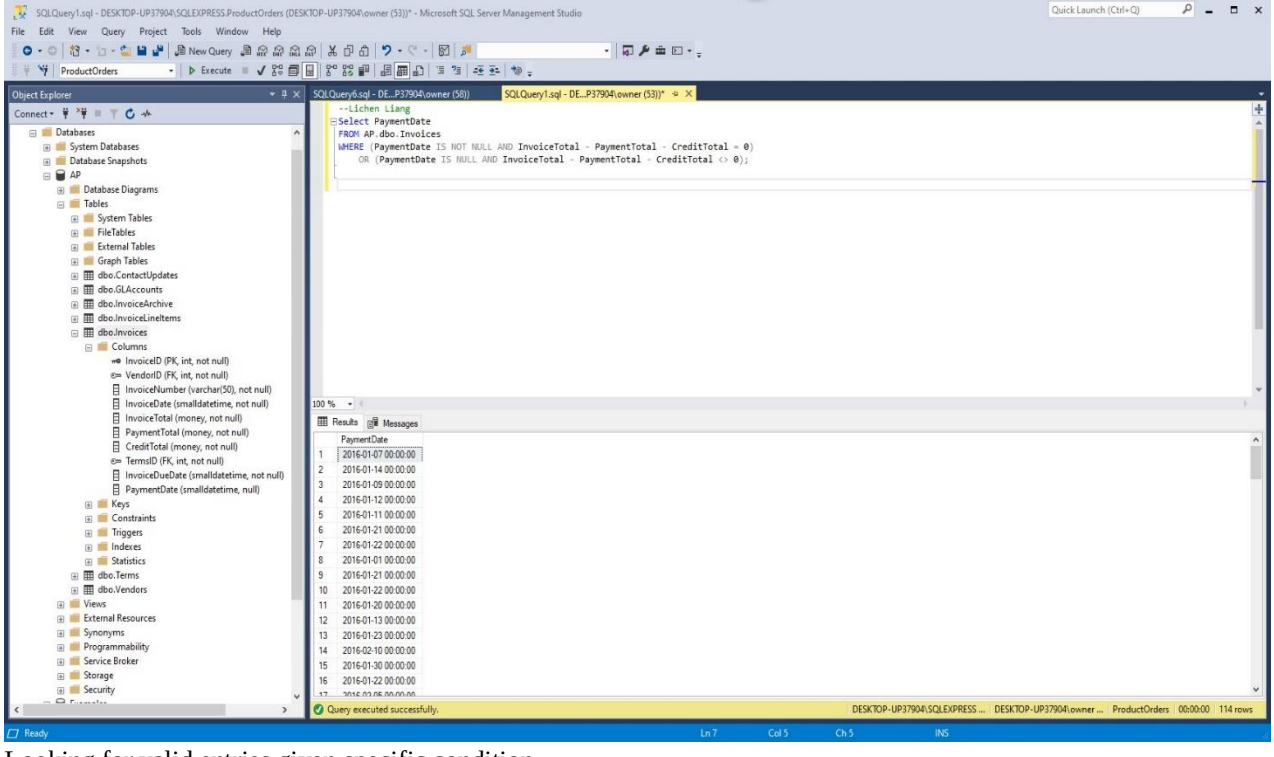
Concatenating two columns and giving them new column alias with specific requirement on the State column

3.
```
Select CustCity + ', ' + CustState + ' ' +CustZip AS 'New Address'
FROM ProductOrders.dbo.Customers
ORDER BY CustState DESC;
```



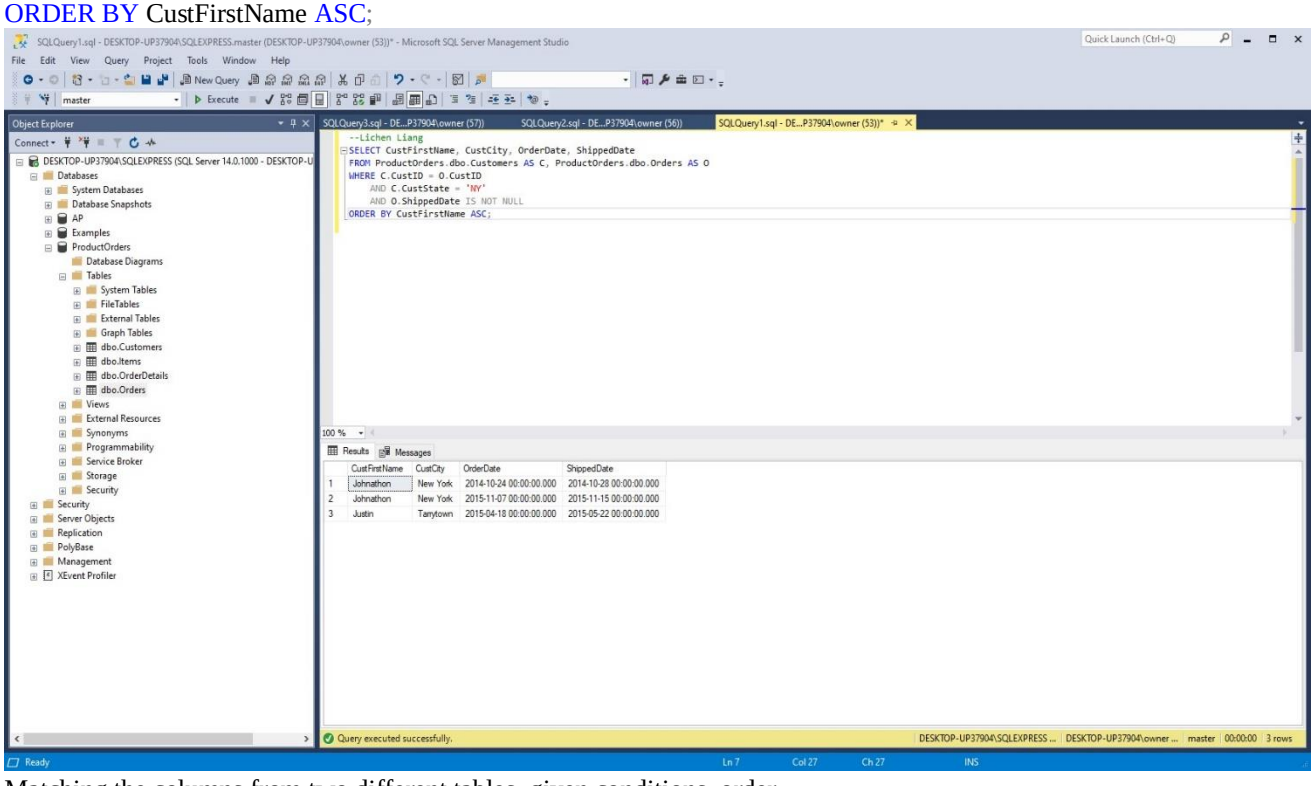
Concatenating three columns, aliasing, and ordering.

4.
```
Select PaymentDate
FROM AP.dbo.Invoices
WHERE (PaymentDate IS NOT NULL AND InvoiceTotal - PaymentTotal - CreditTotal = 0)
OR (PaymentDate IS NULL AND InvoiceTotal - PaymentTotal - CreditTotal <> 0);
```



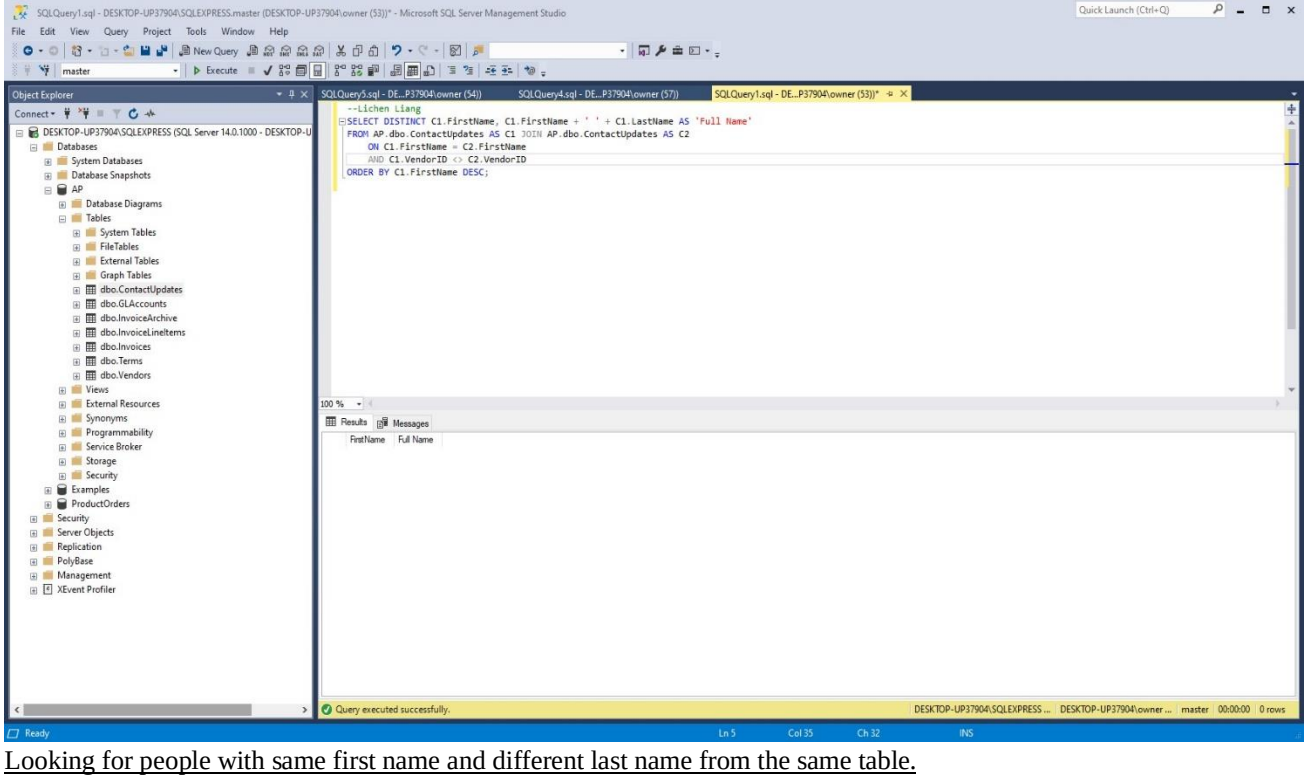
Looking for valid entries given specific condition
The output shows the valid entries.

5.
```
SELECT CustFirstName, CustCity, OrderDate, ShippedDate
FROM ProductOrders.dbo.Customers AS C, ProductOrders.dbo.Orders AS O
WHERE C.CustID = O.CustID
        AND C.CustState = 'NY'
        AND O.ShippedDate IS NOT NULL
ORDER BY CustFirstName ASC;
```



Matching the columns from two different tables, given conditions, order.

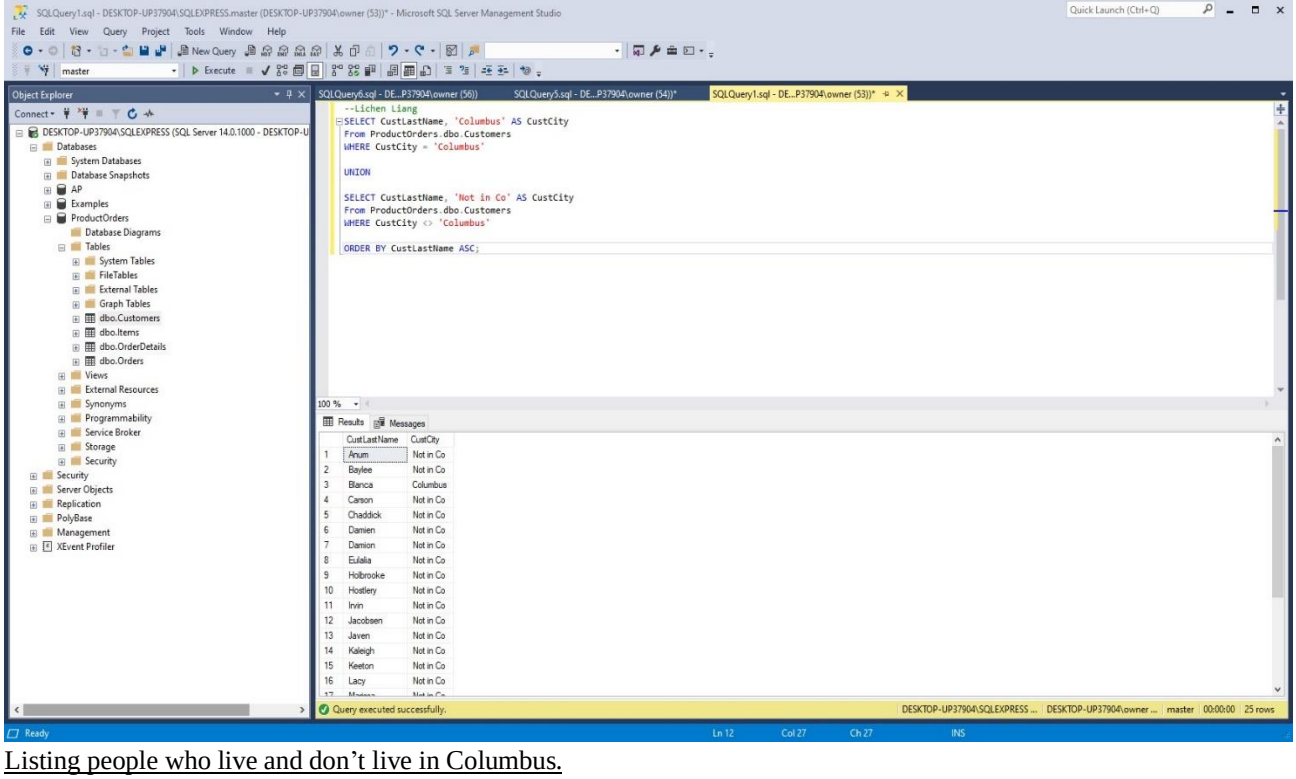
6.
```
SELECT DISTINCT C1.FirstName, C1.FirstName + ' ' + C1.LastName AS 'Full Name'
FROM AP.dbo.ContactUpdates AS C1 JOIN AP.dbo.ContactUpdates AS C2
        ON C1.FirstName = C2.FirstName
        AND C1.VendorID <> C2.VendorID
ORDER BY C1.FirstName DESC;
```



Looking for people with same first name and different last name from the same table.

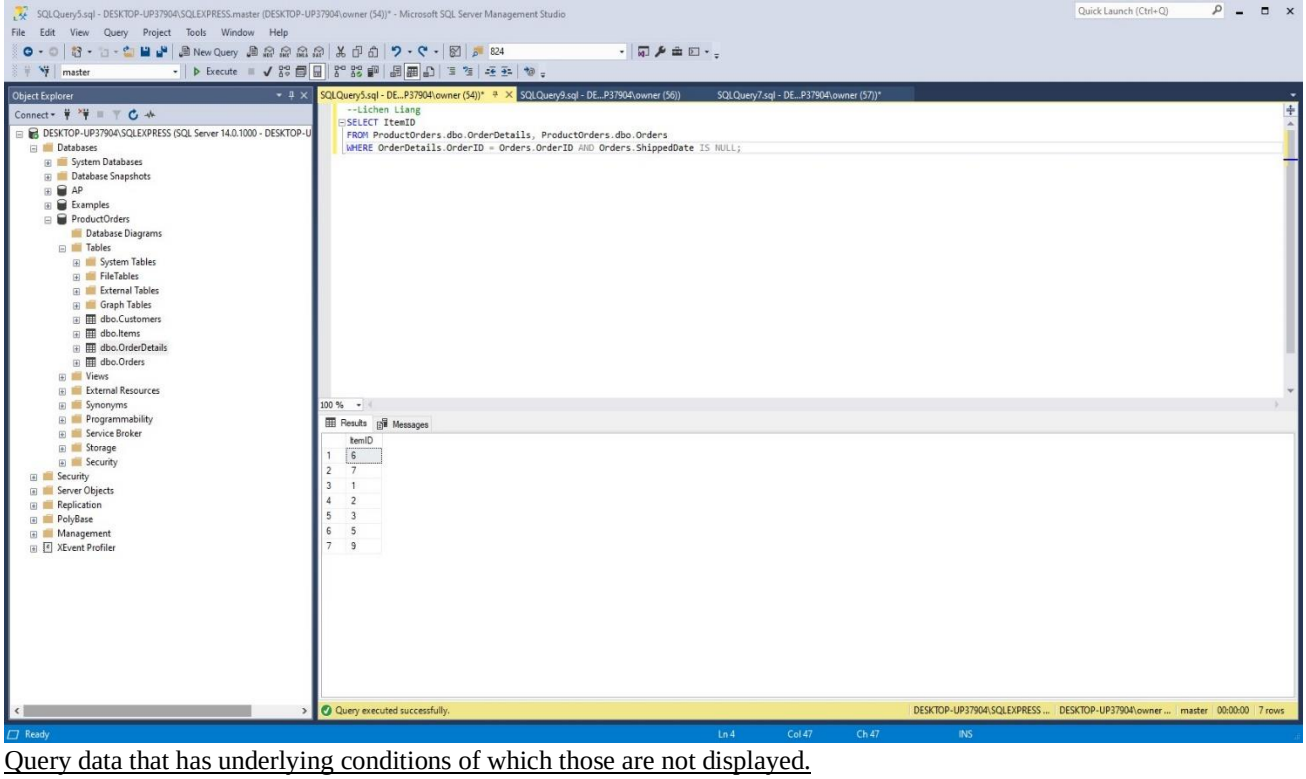
There are no people who have the same first name.

7.
```
SELECT CustLastName, 'Columbus' AS CustCity
From ProductOrders.dbo.Customers
WHERE CustCity = 'Columbus'
UNION
SELECT CustLastName, 'Not in Co' AS CustCity
From ProductOrders.dbo.Customers
WHERE CustCity <> 'Columbus'
ORDER BY CustLastName ASC;
```



Listing people who live and don't live in Columbus.

8.
```
SELECT ItemID
FROM ProductOrders.dbo.OrderDetails, ProductOrders.dbo.Orders
WHERE OrderDetails.OrderID = Orders.OrderID AND Orders.ShippedDate IS NULL;
```



Query data that has underlying conditions of which those are not displayed.

Remarks

In this lab we practiced query using different databases, tables, columns, etc. In the query, we learned how to use joins, unions, where, and order by, for setting the conditions for a query that meets the lab requirement. I think this lab is very efficient practice for getting used to SQL language. The challenge would be more specific requirements.