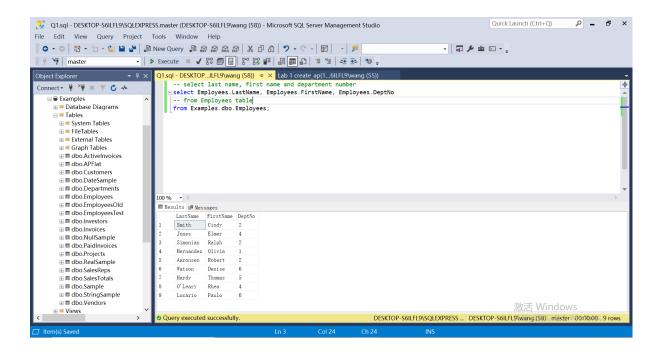
This lab is great, but I can't do much on remarking.....

# Q1:

select last name, first name and department number
 select Employees.LastName, Employees.FirstName, Employees.DeptNo
 from Employees table
 from Examples.dbo.Employees;

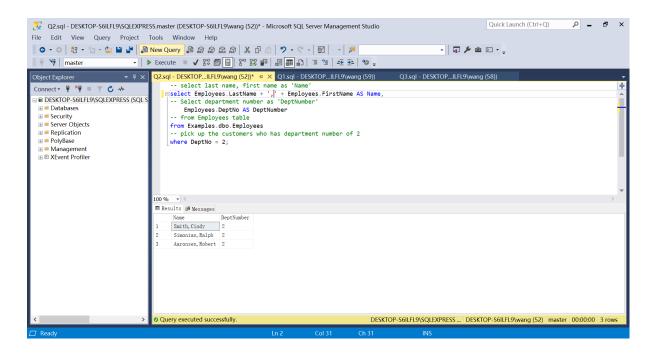


# Q2:

- -- select last name, first name as 'Name' select Employees.LastName + ',' + Employees.FirstName AS Name,
- Select department number as 'DeptNumber'
   Employees.DeptNo AS DeptNumber
- -- from Employees table

from Examples.dbo.Employees

-- pick up the customers who has department number of 2 where DeptNo = 2;



### Q3:

-- select customer last name and first name as 'Full Name'

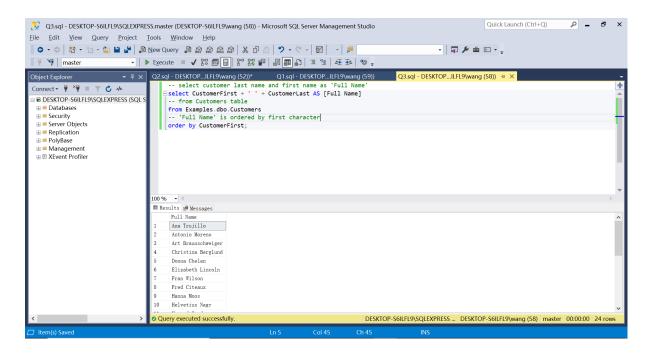
SELECT CustomerFirst + ' ' + CustomerLast AS [Full Name]

-- from Customers table

FROM Examples.dbo.Customers

-- 'Full Name' is ordered by first character

ORDER BY CustomerFirst;



#### Q4:

-- select 'InvoiceTotal - PaymentTotal - CreditTotal' as 'Balance Due' and all the column on Invoices table

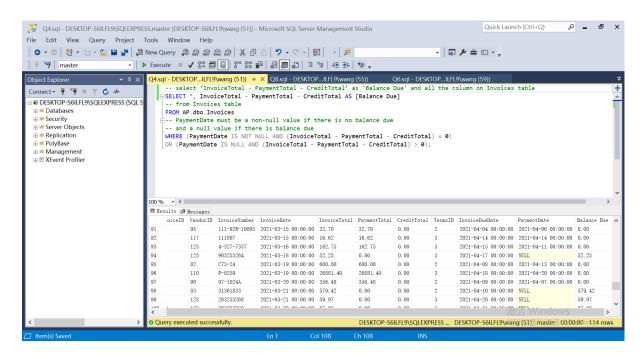
SELECT \*, InvoiceTotal - PaymentTotal - CreditTotal AS [Balance Due]

-- from Invoices table

FROM AP.dbo.Invoices

- -- PaymentDate must be a non-null value if there is no balance due
- -- and a null value if there is balance due

WHERE (PaymentDate IS NOT NULL AND (InvoiceTotal - PaymentTotal - CreditTotal) = 0)
OR (PaymentDate IS NULL AND (InvoiceTotal - PaymentTotal - CreditTotal) > 0);



## Q5:

-- select CustLastName, CustCity, CustState, OrderDate and ShippedDate SELECT Customers.CustLastName, Customers.CustCity AS 'City', Customers.CustState,

Orders.OrderDate AS [Order Date],

Orders.ShippedDate AS [Shipped Date]

-- from Customers and Orders table

FROM ProductOrders.dbo.Orders

FULL outer join ProductOrders.dbo.Customers

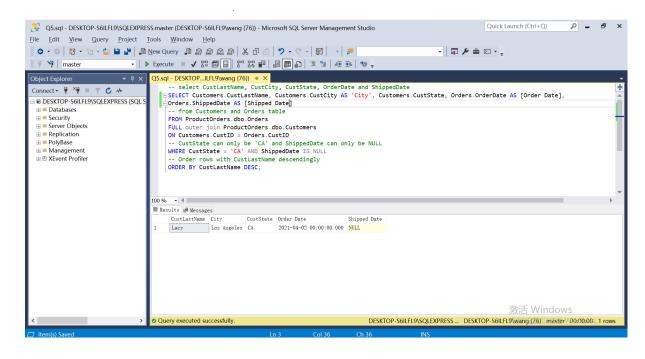
ON Customers.CustID = Orders.CustID

-- CustState can only be 'CA' and ShippedDate can only be NULL

WHERE CustState = 'CA' AND ShippedDate IS NULL

-- Order rows with CustLastName descendingly

ORDER BY CustLastName DESC;



# Q6:

-- select vendorName and fullName

SELECT DISTINCT V1.VendorName, V1.VendorContactLName + ' ' +

V1.VendorContactFName AS FullName

-- Innor Join two Vendors table

FROM AP.dbo.Vendors AS V1 INNER JOIN AP.dbo.Vendors AS V2

- -- To find vendors whose contact has the same first name (i.e.
- -- VendorContactFName) as another vendor's contact.

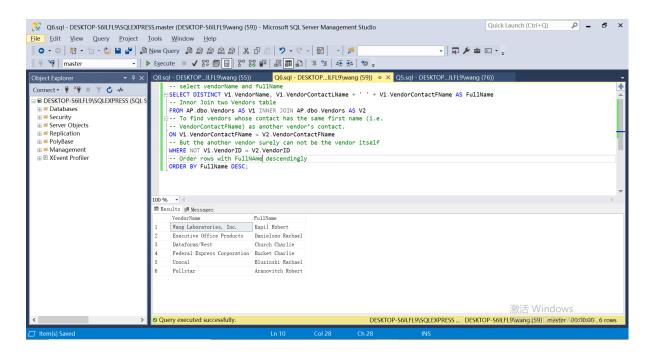
ON V1.VendorContactFName = V2.VendorContactFName

-- But the another vendor surely can not be the vendor itself

WHERE NOT V1.VendorID = V2.VendorID

-- Order rows with FullNAme descendingly

ORDER BY FullName DESC;



# Q7:

-- select CustomerFirst, CustState

SELECT Customers.CustomerFirst, Customers.CustState

-- from Customers table

FROM Examples.dbo.Customers

-- CustState have to be 'IL'

WHERE CustState = 'IL'

UNION

-- select CustomerFirst and make 'Not' in IL as CustState

SELECT Customers.CustomerFirst, 'Not in IL' AS CustState

-- from Customers table

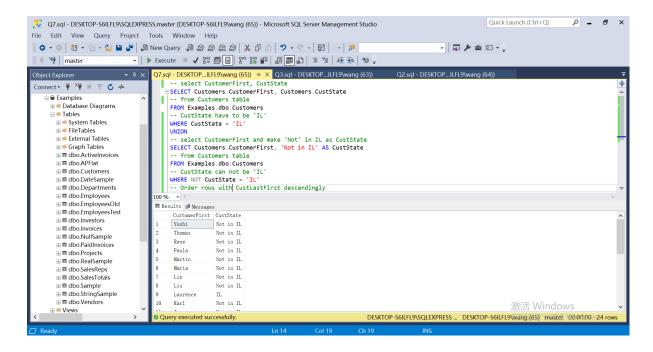
FROM Examples.dbo.Customers

-- CustState can not be 'IL'

WHERE NOT CustState = 'IL'

-- Order rows with CustLastFirst descendingly

ORDER BY CustomerFirst DESC;



# Q8:

-- select AccountNo and AccountDescription

SELECT GLAccounts. AccountNo, GLAccounts. AccountDescription

-- from GLAccounts table

FROM AP.dbo.GLAccounts LEFT JOIN AP.dbo.InvoiceLineItems

ON GLAccounts. AccountNo = InvoiceLineItems. AccountNo

-- selected row's corresponding InvoiceLineItems.AccountNo have to be NULL

WHERE InvoiceLineItems.AccountNo IS NULL

-- Order rows with GLAccounts. AccountNo descendingly

ORDER BY AccountNo DESC:

