

Lab 5: System Functions Exercise

Nidhi Surya Prakash

SUID: 215895619

Purpose:

Do SQL selections against **Northwind** database.

Deliverables:

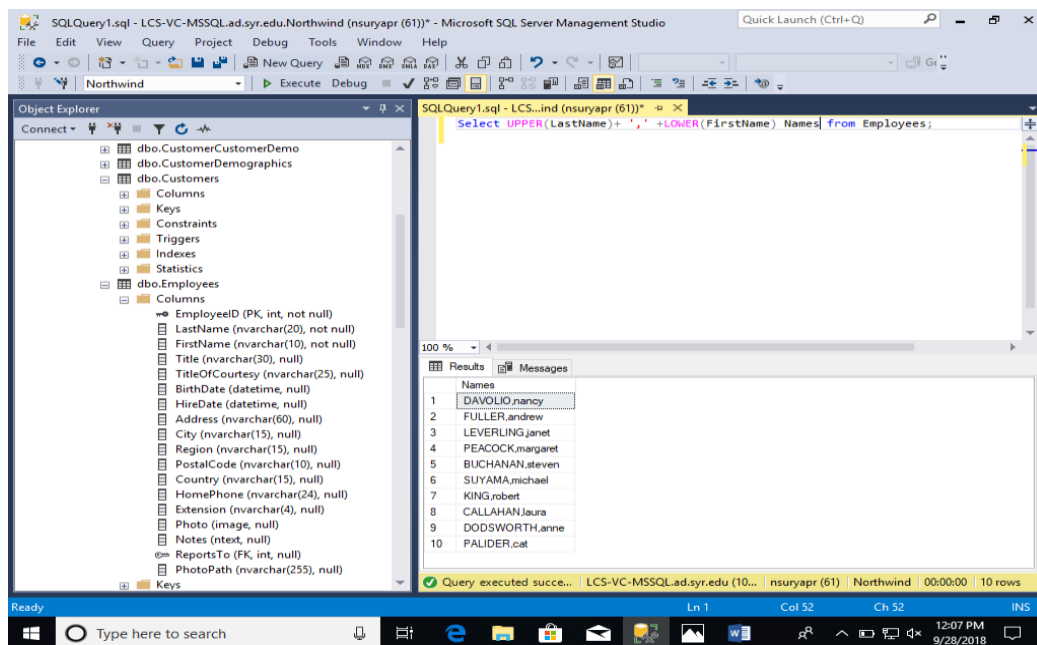
Multiple screenshots, showing your NETID, query code, last lines of datasets & time stamp, as described through the lab.

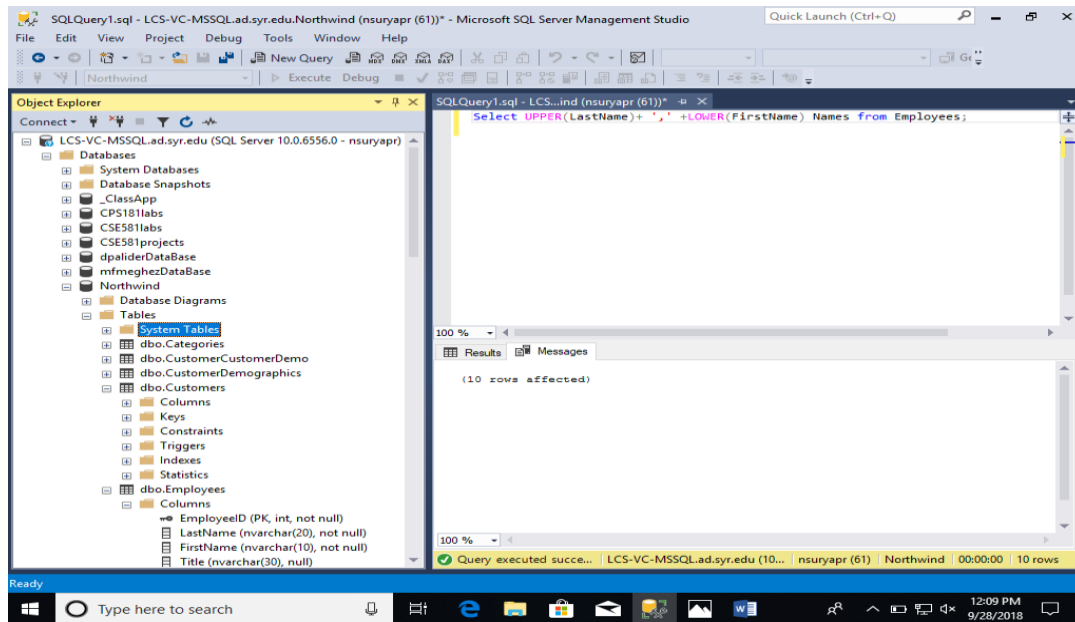
Scripts that you used to carry out the actions.

Submit electronic version to Blackboard.

1. List all employee names in the following format: LAST NAME, first name. (Uppercased last name, followed by comma and space, followed by lowercased first name).

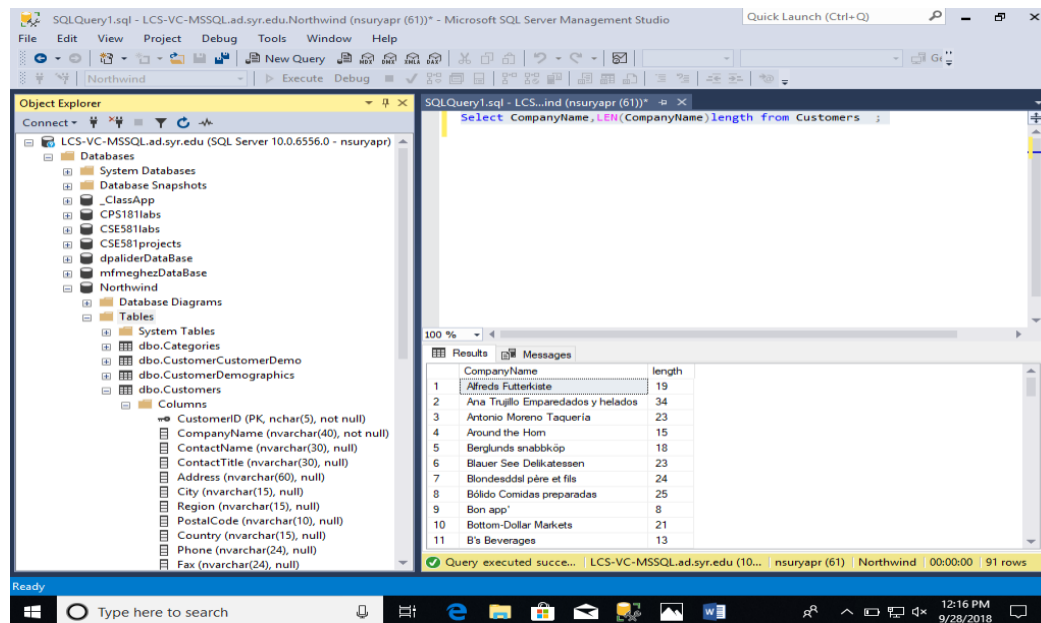
Script: `Select UPPER(LastName)+ ', ' +LOWER(FirstName) Names from Employees;`

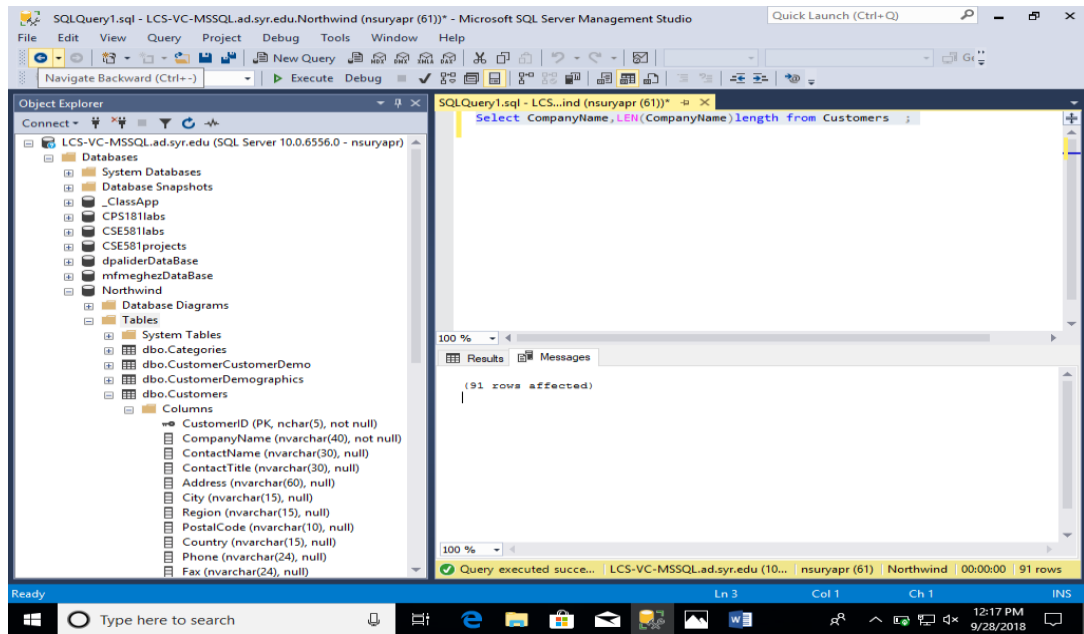




- List all company names as well as the length of their name, from the Customers table. 2
Columns – Company Name, Text length.

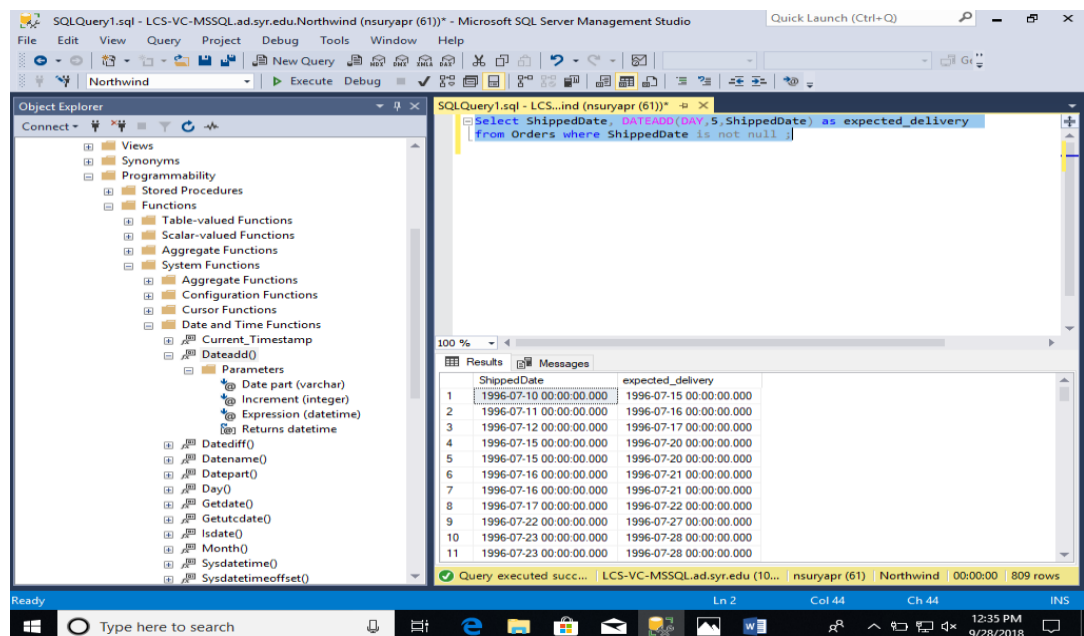
Script: `Select CompanyName, LEN(CompanyName)length from Customers ;`

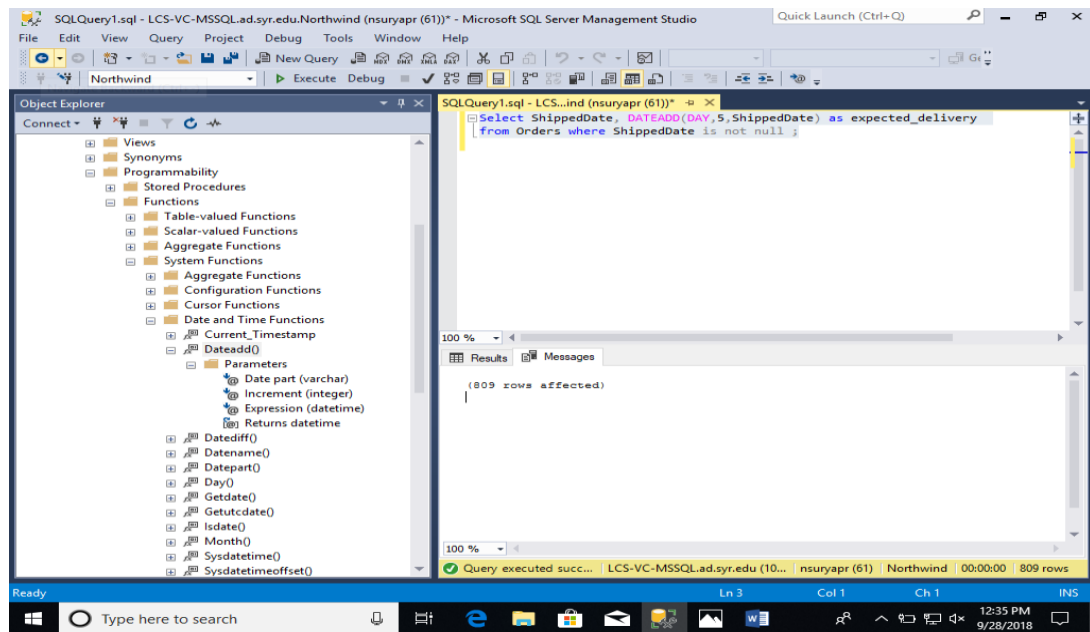




- List all shipped dates as well as expected delivery dates from the Orders table WHERE SHIP DATE IS NOT NULL. (Expected delivery date is 5 days from the ship date).

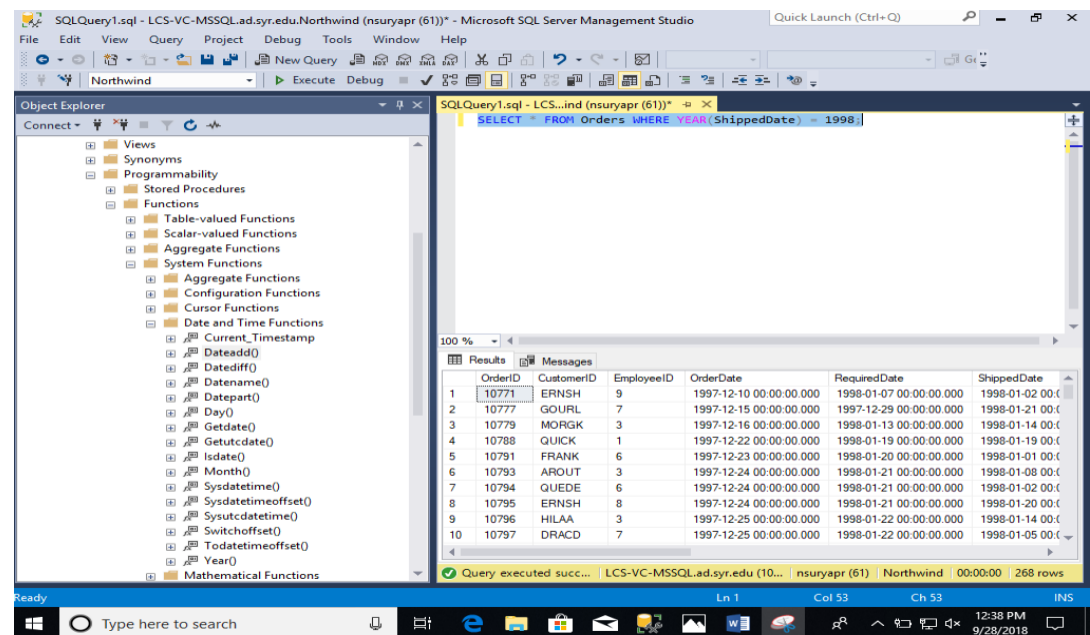
Script: `Select ShippedDate, DATEADD(DAY,5,ShippedDate) as expected_delivery from Orders where ShippedDate is not null ;`

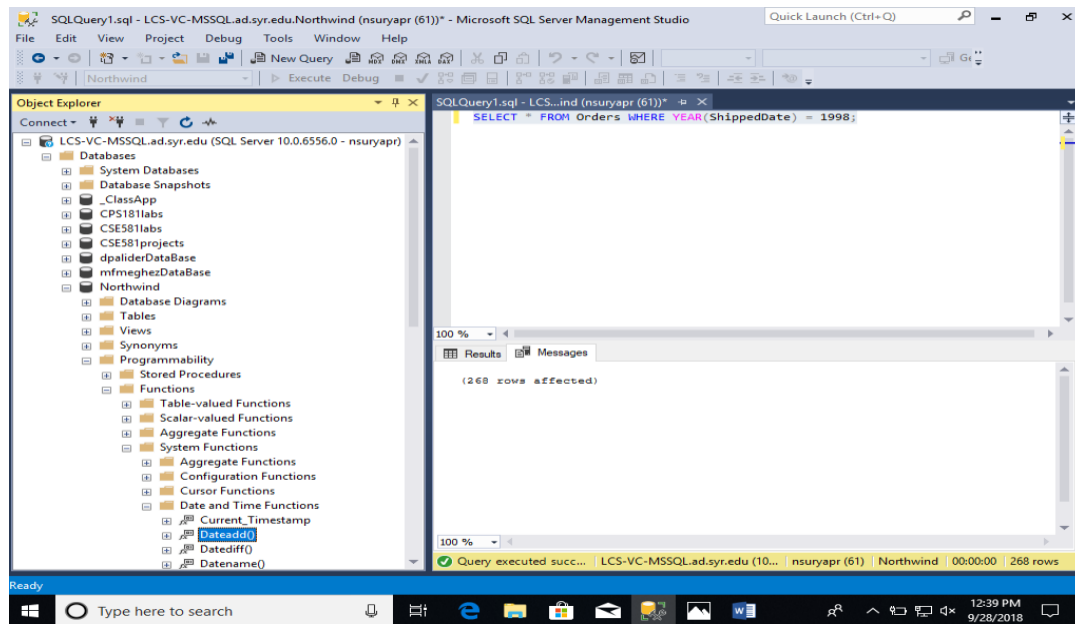




- List all orders from the Orders table that were shipped in 1998.

Script: `SELECT * FROM Orders WHERE YEAR(ShippedDate) = 1998;`



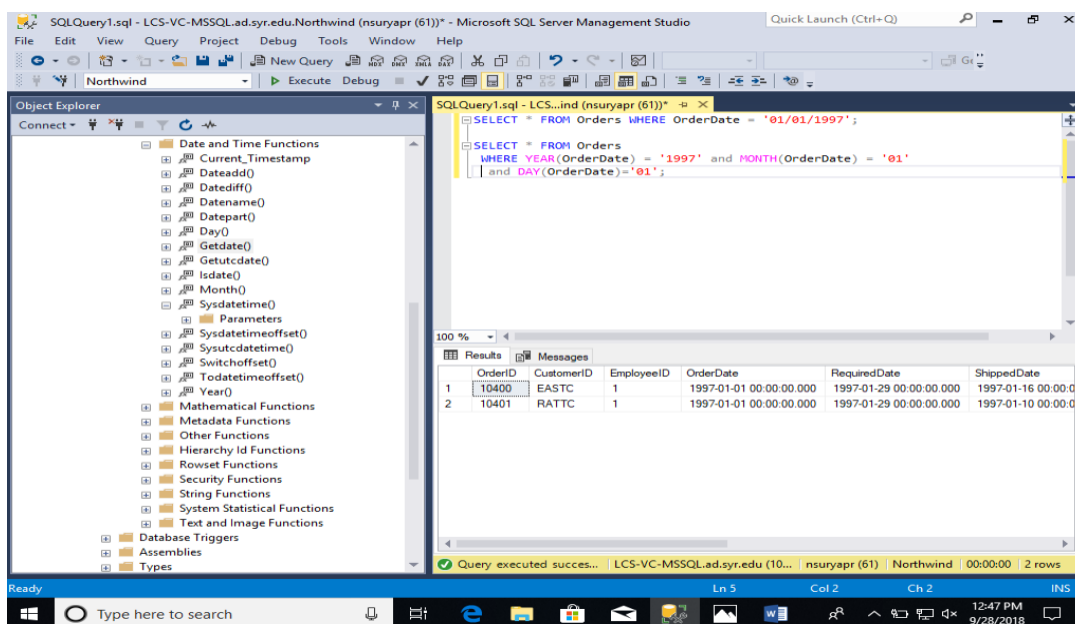


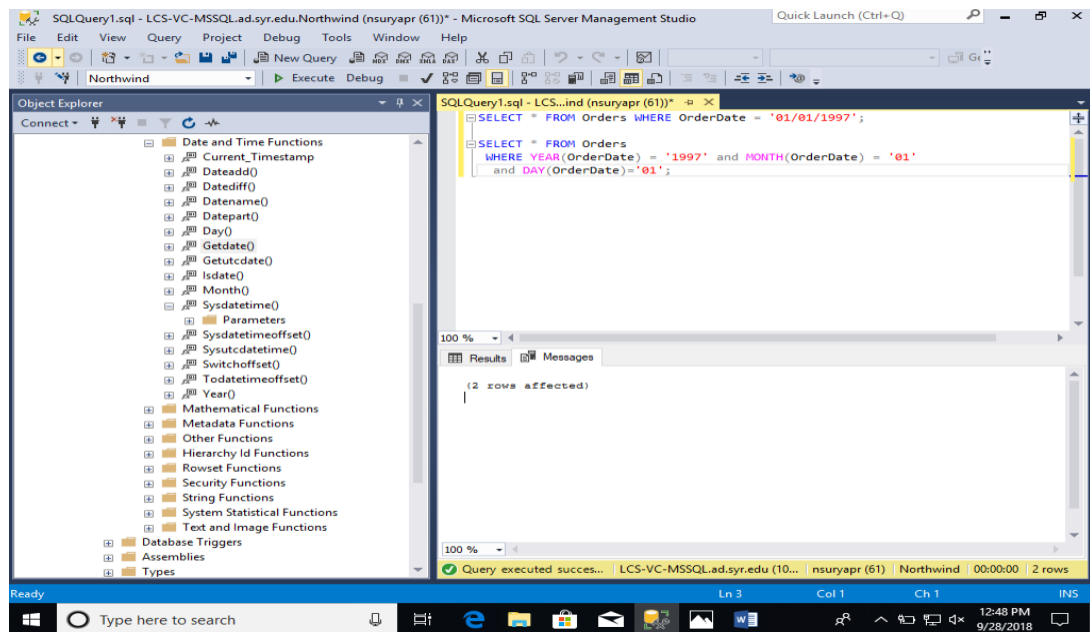
- List all orders placed on January 1st 1997, from the Orders table.

Script: `SELECT * FROM Orders WHERE OrderDate = '01/01/1997';`

Or

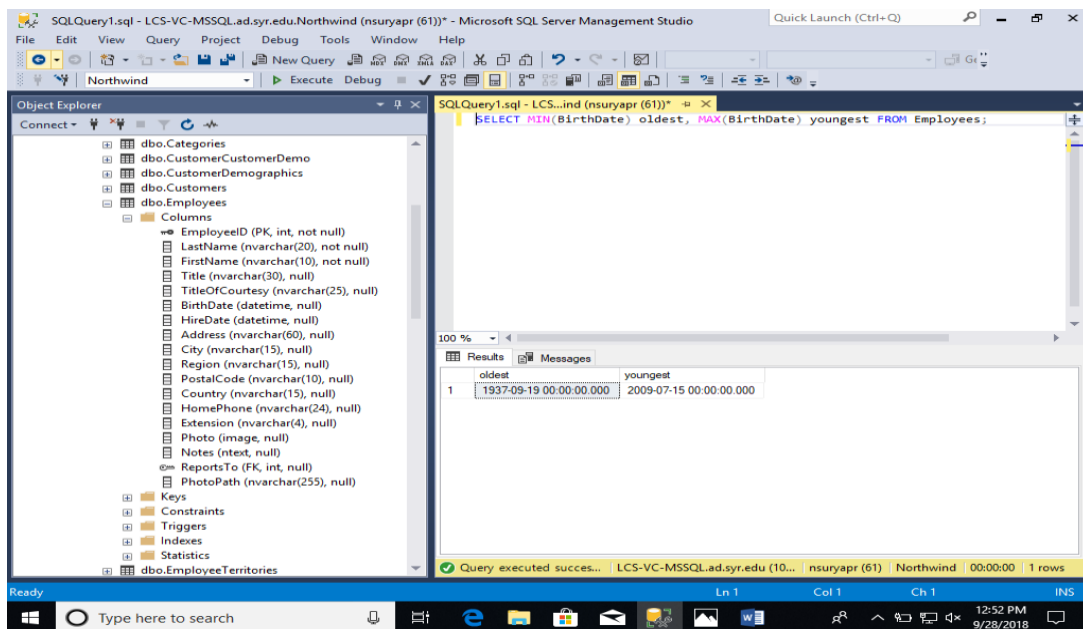
Script: `SELECT * FROM Orders WHERE YEAR(OrderDate) = '1997' and MONTH(OrderDate) = '01' and DAY(OrderDate)='01';`

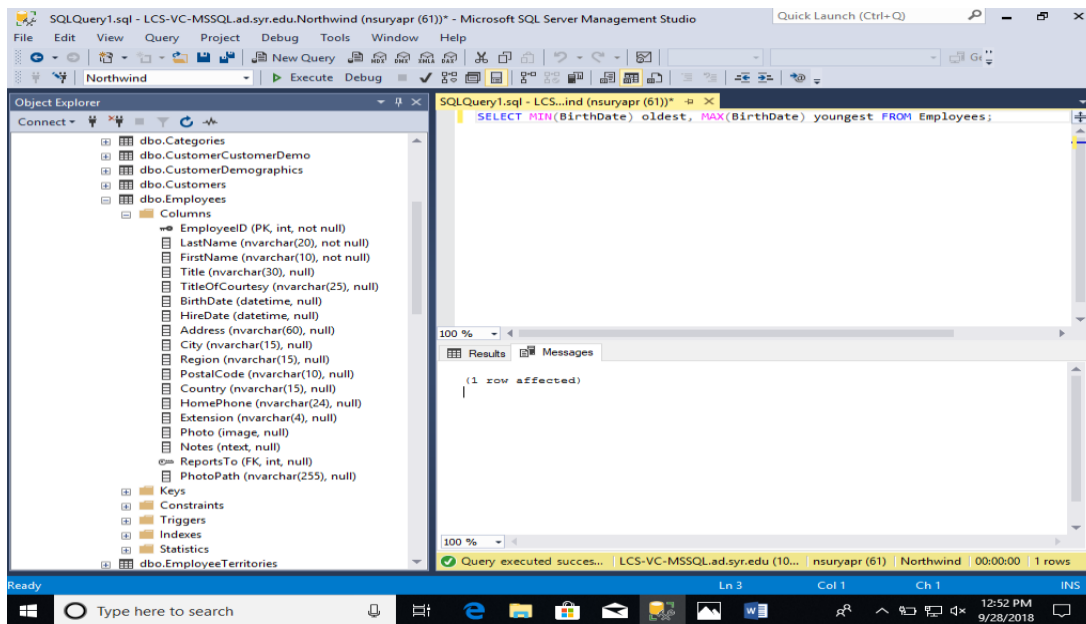




6. Find the oldest / youngest employee's date of birth from Employee table.

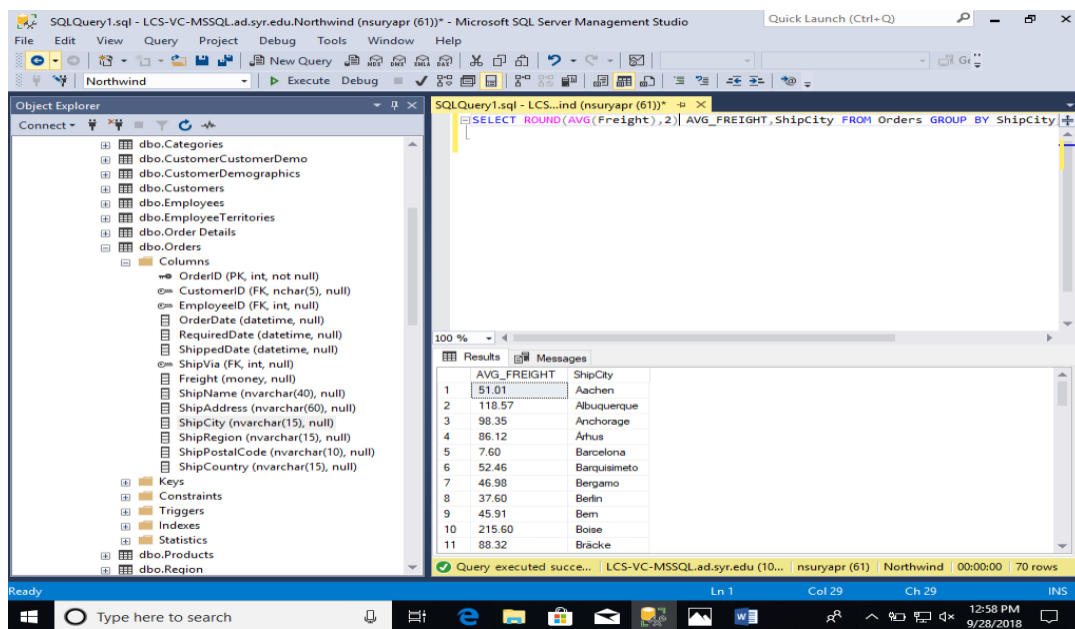
Script: `SELECT MIN(BirthDate) oldest, MAX(BirthDate) youngest FROM Employees;`

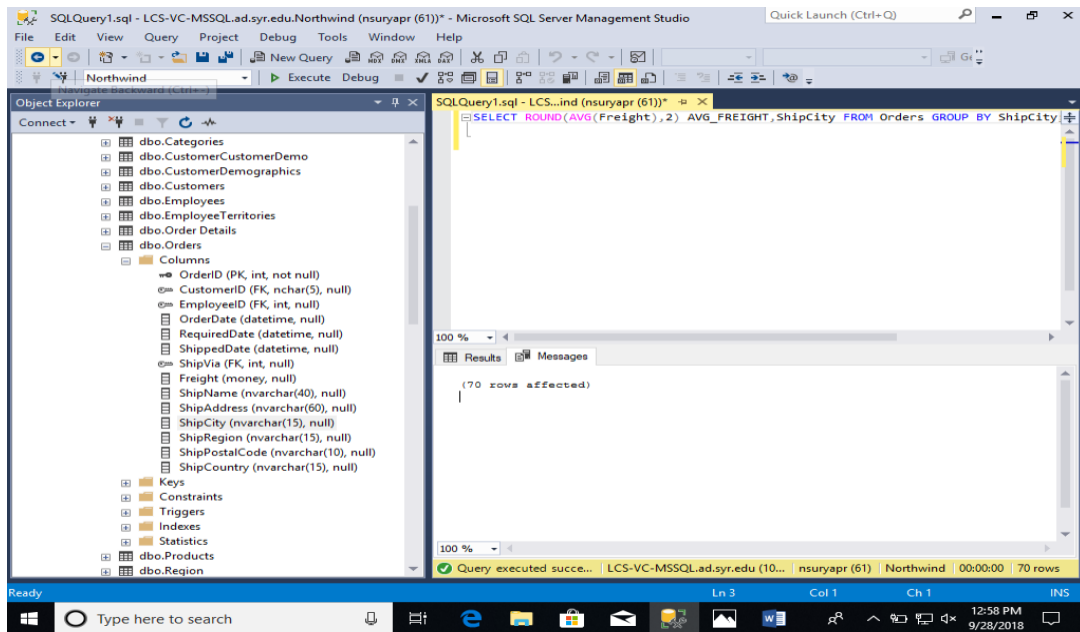




7. Calculate the average freight (rounded up to cent) for each Ship City from Orders table.

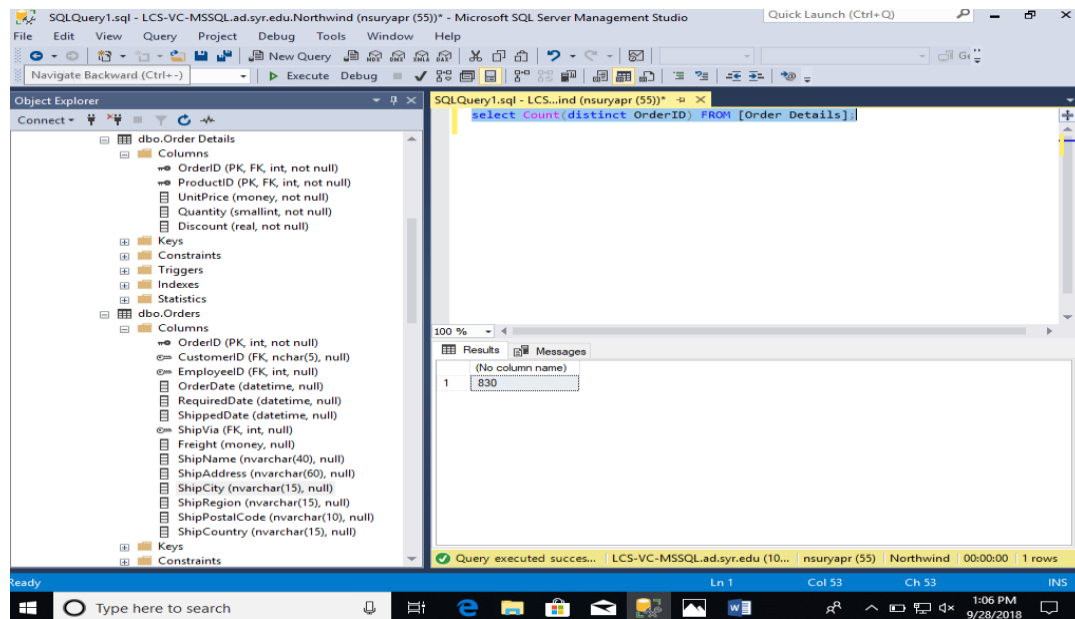
Script: `SELECT ROUND(AVG(Freight),2) AVG_FREIGHT,ShipCity FROM Orders GROUP BY ShipCity;`

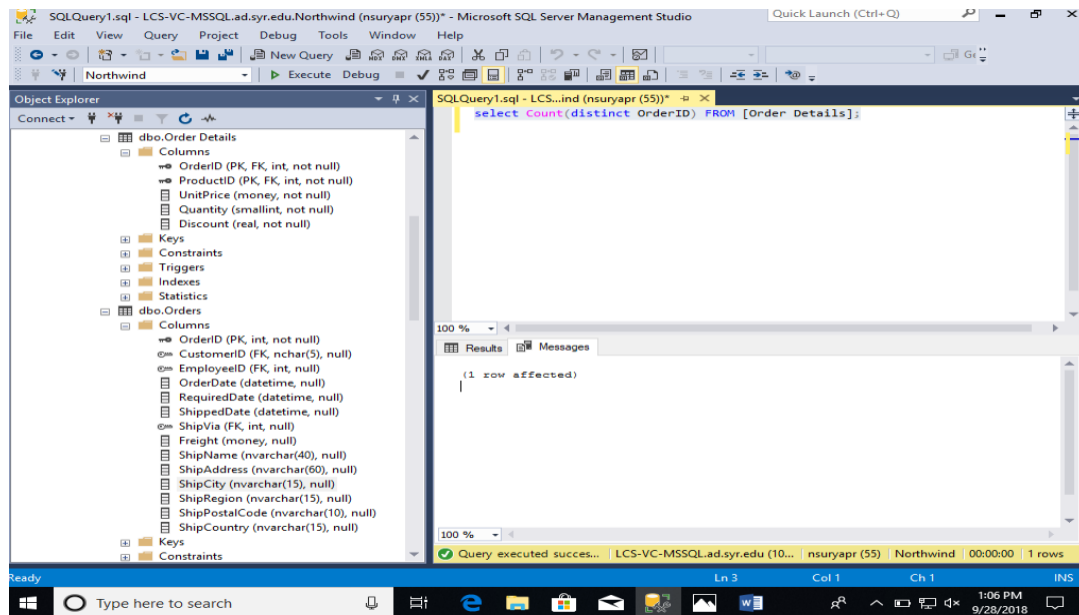




8. Count how many unique orders from [Order Details] table.

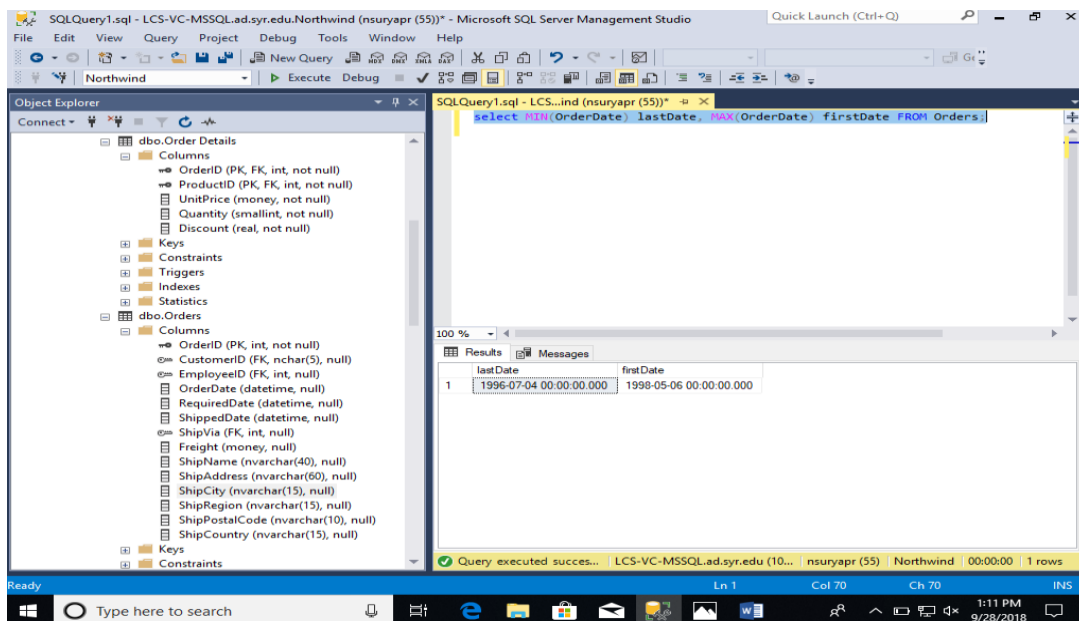
Script: `select Count(distinct OrderID) FROM [Order Details];`





9. Get dates of First and Last orders placed (Orders table)

Script: `select MIN(OrderDate) lastDate, MAX(OrderDate) firstDate FROM Orders;`



SQLQuery1.sql - LCS-VC-MSSQL.ad.syr.edu.Northwind (nsuryapr (55)) - Microsoft SQL Server Management Studio

File Edit View Query Project Debug Tools Window Help

Northwind

Object Explorer

- Connect
- dbo.Order Details
 - Columns
 - OrderID (PK, FK, int, not null)
 - ProductID (FK, FK, int, not null)
 - UnitPrice (money, not null)
 - Quantity (smallint, not null)
 - Discount (real, not null)
 - Keys
 - Constraints
 - Triggers
 - Indexes
 - Statistics
- dbo.Orders
 - Columns
 - OrderID (PK, int, not null)
 - CustomerID (FK, nchar(5), null)
 - EmployeeID (FK, int, null)
 - OrderDate (datetime, null)
 - RequiredDate (datetime, null)
 - ShippedDate (datetime, null)
 - ShipVia (FK, int, null)
 - Freight (money, null)
 - ShipName (nvarchar(40), null)
 - ShipAddress (nvarchar(60), null)
 - ShipCity (nvarchar(15), null)
 - ShipRegion (nvarchar(15), null)
 - ShipPostalCode (nvarchar(10), null)
 - ShipCountry (nvarchar(15), null)
 - Keys
 - Constraints

SQLQuery1.sql - LCS-VC-MSSQL.ad.syr.edu (nsuryapr (55))

```
select MIN(OrderDate) lastDate, MAX(OrderDate) firstDate FROM Orders;
```

Results

(1 row affected)

Query executed successfully. LCS-VC-MSSQL.ad.syr.edu (10... nsuryapr (55) Northwind 00:00:00 1 rows

Ready Type here to search

Ln 3 Col 1 Ch 1 INS

1:11 PM 9/28/2018