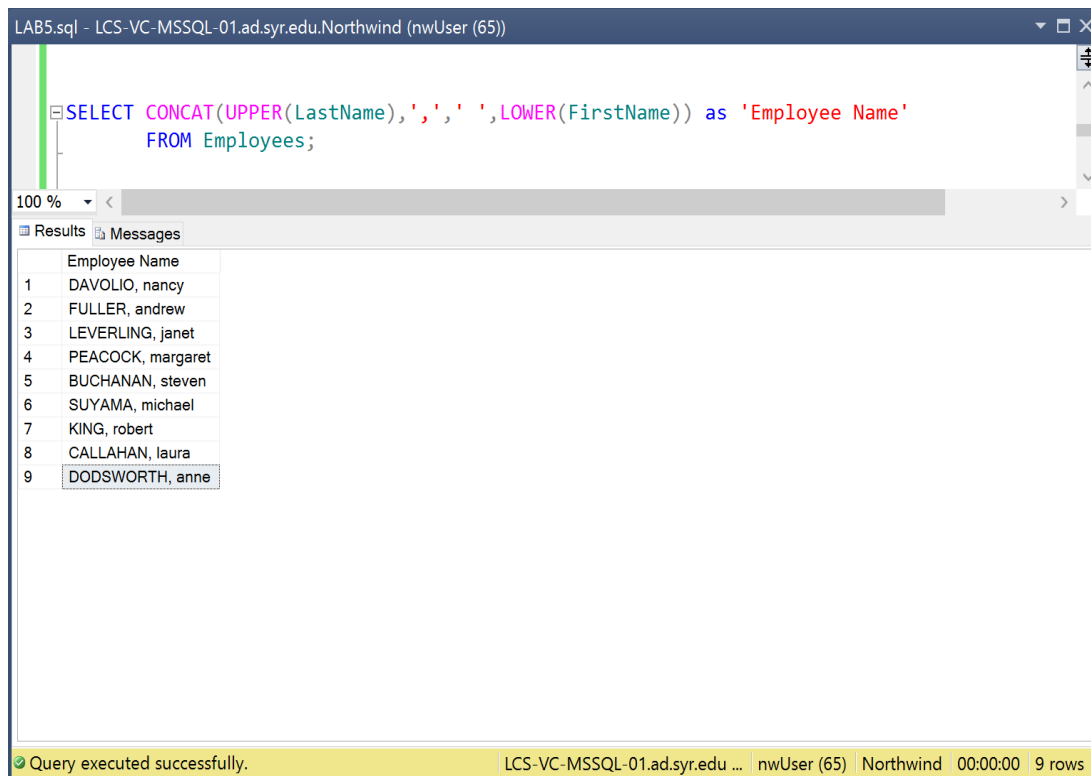


Lab 5: System Functions Exercise

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).

Ans: `SELECT CONCAT(UPPER(LastName), ', ', LOWER(FirstName)) as 'Employee Name'
FROM Employees;`



The screenshot shows a SQL Server Enterprise Manager window titled 'LAB5.sql - LCS-VC-MSSQL-01.ad.syr.edu.Northwind (nwUser (65))'. The query editor displays the following SQL query:

```
SELECT CONCAT(UPPER(LastName), ', ', LOWER(FirstName)) as 'Employee Name'  
FROM Employees;
```

The query is executed, and the results are displayed in the 'Results' pane. The results show a table with one column, 'Employee Name', and nine rows of data:

	Employee Name
1	DAVOLIO, nancy
2	FULLER, andrew
3	LEVERLING, janet
4	PEACOCK, margaret
5	BUCHANAN, steven
6	SUYAMA, michael
7	KING, robert
8	CALLAHAN, laura
9	DODSWORTH, anne

The status bar at the bottom indicates 'Query executed successfully.' and '9 rows'.

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

Ans: `SELECT CompanyName, LEN(CompanyName) as 'Length of CompanyName'`
`FROM Customers;`

LAB5.sql - LCS-VC-MSSQL-01.ad.syr.edu.Northwind (nwUser (64))*

```
SELECT CompanyName, LEN(CompanyName) as 'Length of CompanyName'
FROM Customers;
```

100 %

Results Messages

	CompanyName	Length of CompanyName
1	Alfreds Futterkiste	19
2	Ana Trujillo Emparedados y helados	34
3	Antonio Moreno Taquería	23
4	Around the Horn	15
5	Berglunds snabbköp	18
6	Blauer See Delikatessen	23
7	Blondesddsl père et fils	24
8	Bólido Comidas preparadas	25
9	Bon app'	8
10	Bottom-Dollar Markets	21
11	B's Beverages	13
12	Cactus Comidas para llevar	26
13	Centro comercial Moctezuma	26
14	Chop-suey Chinese	17
15	Comércio Mineiro	16
16	Consolidated Holdings	21
17	Die Wandernde Kuh	17
18	Drachenblut Delikatessen	24
19	Du monde entier	15
20	Eastern Connection	18

Query executed successfully. LCS-VC-MSSQL-01.ad.syr.edu ... nwUser (64) Northwind 00:00:00 91 rows

3. List all shipped dates as well as expected delivery dates from the Orders table WHERE SHIP DATE is present. (Expected delivery date is 5 days from the ship date).

Ans:

```
SELECT ShippedDate, DATEADD(day,05, ShippedDate) as DeliveryDate
FROM Orders
WHERE ShippedDate IS NOT NULL;
```

LAB5.sql - LCS-VC-MSSQL-01.ad.syr.edu.Northwind (nwUser (64))*

```
SELECT ShippedDate, DATEADD(day,05, ShippedDate) as DeliveryDate
FROM Orders
WHERE ShippedDate IS NOT NULL;
```

100 %

Results Messages

	ShippedDate	DeliveryDate
1	1996-07-10 00:00:00.000	1996-07-15 00:00:00.000
2	1996-07-11 00:00:00.000	1996-07-16 00:00:00.000
3	1996-07-12 00:00:00.000	1996-07-17 00:00:00.000
4	1996-07-15 00:00:00.000	1996-07-20 00:00:00.000
5	1996-07-15 00:00:00.000	1996-07-20 00:00:00.000
6	1996-07-16 00:00:00.000	1996-07-21 00:00:00.000
7	1996-07-16 00:00:00.000	1996-07-21 00:00:00.000
8	1996-07-17 00:00:00.000	1996-07-22 00:00:00.000
9	1996-07-22 00:00:00.000	1996-07-27 00:00:00.000
10	1996-07-23 00:00:00.000	1996-07-28 00:00:00.000
11	1996-07-23 00:00:00.000	1996-07-28 00:00:00.000
12	1996-07-25 00:00:00.000	1996-07-30 00:00:00.000
13	1996-07-25 00:00:00.000	1996-07-30 00:00:00.000
14	1996-07-29 00:00:00.000	1996-08-03 00:00:00.000
15	1996-07-30 00:00:00.000	1996-08-04 00:00:00.000
16	1996-07-31 00:00:00.000	1996-08-05 00:00:00.000
17	1996-07-31 00:00:00.000	1996-08-05 00:00:00.000
18	1996-08-02 00:00:00.000	1996-08-07 00:00:00.000
19	1996-08-02 00:00:00.000	1996-08-07 00:00:00.000
20	1996-08-06 00:00:00.000	1996-08-11 00:00:00.000

Query executed successfully. LCS-VC-MSSQL-01.ad.syr.edu ... nwUser (64) Northwind 00:00:00 809 rows

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

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

LAB5.sql - LCS-VC-MSSQL-01.ad.syr.edu.Northwind (nwUser (64))*

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

100 %

Results Messages

	OrderID	CustomerID	EmployeeID	OrderDate	RequiredDate	ShippedDate	ShipVia	Freight	ShipName
1	10771	ERNSH	9	1997-12-10 00:00:00.000	1998-01-07 00:00:00.000	1998-01-02 00:00:00.000	2	11.19	Ernst Ha
2	10777	GOURL	7	1997-12-15 00:00:00.000	1997-12-29 00:00:00.000	1998-01-21 00:00:00.000	2	3.01	Gourme
3	10779	MORGK	3	1997-12-16 00:00:00.000	1998-01-13 00:00:00.000	1998-01-14 00:00:00.000	2	58.13	Morgens
4	10788	QUICK	1	1997-12-22 00:00:00.000	1998-01-19 00:00:00.000	1998-01-19 00:00:00.000	2	42.70	QUICK-?
5	10791	FRANK	6	1997-12-23 00:00:00.000	1998-01-20 00:00:00.000	1998-01-01 00:00:00.000	2	16.85	Franken
6	10793	AROUT	3	1997-12-24 00:00:00.000	1998-01-21 00:00:00.000	1998-01-08 00:00:00.000	3	4.52	Around
7	10794	QUEDE	6	1997-12-24 00:00:00.000	1998-01-21 00:00:00.000	1998-01-02 00:00:00.000	1	21.49	Que Del
8	10795	ERNSH	8	1997-12-24 00:00:00.000	1998-01-21 00:00:00.000	1998-01-20 00:00:00.000	2	126.66	Ernst Ha
9	10796	HILAA	3	1997-12-25 00:00:00.000	1998-01-22 00:00:00.000	1998-01-14 00:00:00.000	1	26.52	HILARIC
10	10797	DRACD	7	1997-12-25 00:00:00.000	1998-01-22 00:00:00.000	1998-01-05 00:00:00.000	2	33.35	Dracher
11	10798	ISLAT	2	1997-12-26 00:00:00.000	1998-01-23 00:00:00.000	1998-01-05 00:00:00.000	1	2.33	Island T
12	10799	KOENE	9	1997-12-26 00:00:00.000	1998-02-06 00:00:00.000	1998-01-05 00:00:00.000	3	30.76	Königlic
13	10800	SEVES	1	1997-12-26 00:00:00.000	1998-01-23 00:00:00.000	1998-01-05 00:00:00.000	3	137.44	Seven S
14	10802	SIMOB	4	1997-12-29 00:00:00.000	1998-01-26 00:00:00.000	1998-01-02 00:00:00.000	2	257.26	Simons
15	10803	WELLI	4	1997-12-30 00:00:00.000	1998-01-27 00:00:00.000	1998-01-06 00:00:00.000	1	55.23	Wellingt
16	10804	SEVES	6	1997-12-30 00:00:00.000	1998-01-27 00:00:00.000	1998-01-07 00:00:00.000	2	27.33	Seven S
17	10805	THEBI	2	1997-12-30 00:00:00.000	1998-01-27 00:00:00.000	1998-01-09 00:00:00.000	3	237.34	The Big
18	10806	VICTE	3	1997-12-31 00:00:00.000	1998-01-28 00:00:00.000	1998-01-05 00:00:00.000	2	22.11	Victuail

Query executed successfully. LCS-VC-MSSQL-01.ad.syr.edu ... nwUser (64) Northwind 00:00:00 268 rows

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

Ans: `SELECT *`
`FROM Orders`
`WHERE CAST(OrderDate as DATETIME) = '01-01-1997';`

LAB5.sql - LCS-VC-MSSQL-01.ad.syr.edu.Northwind (nwUser (64))*

```
SELECT *  
FROM Orders  
WHERE CAST(OrderDate as DATETIME) = '01-01-1997';
```

100 %

Results Messages

	OrderID	CustomerID	EmployeeID	OrderDate	RequiredDate	ShippedDate	ShipVia	Freight	ShipName
1	10400	EASTC	1	1997-01-01 00:00:00.000	1997-01-29 00:00:00.000	1997-01-16 00:00:00.000	3	83.93	Eastern Cor
2	10401	RATTC	1	1997-01-01 00:00:00.000	1997-01-29 00:00:00.000	1997-01-10 00:00:00.000	1	12.51	Rattlesnake

Query executed successfully. LCS-VC-MSSQL-01.ad.syr.edu ... nwUser (64) Northwind 00:00:00 2 rows