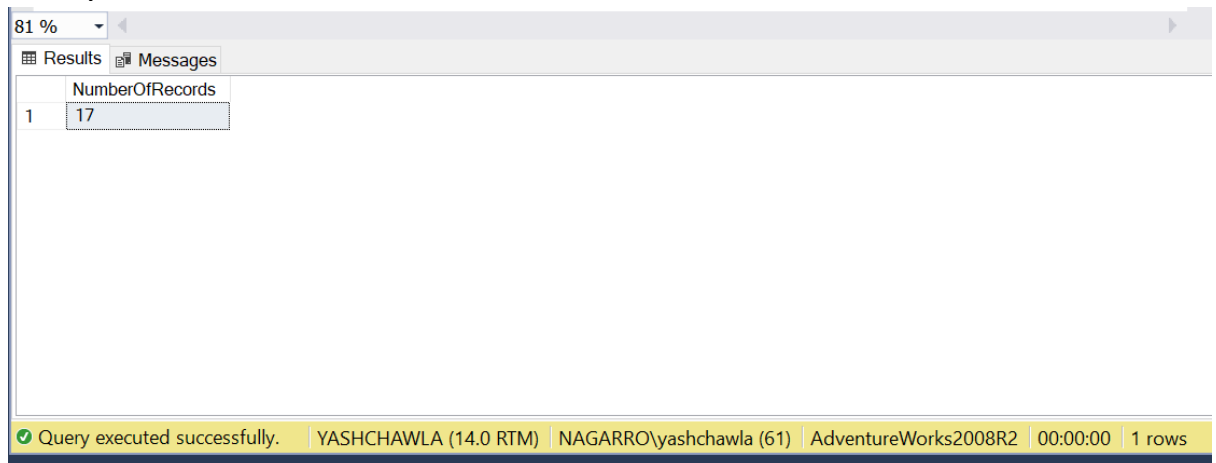


## Exercise 1:

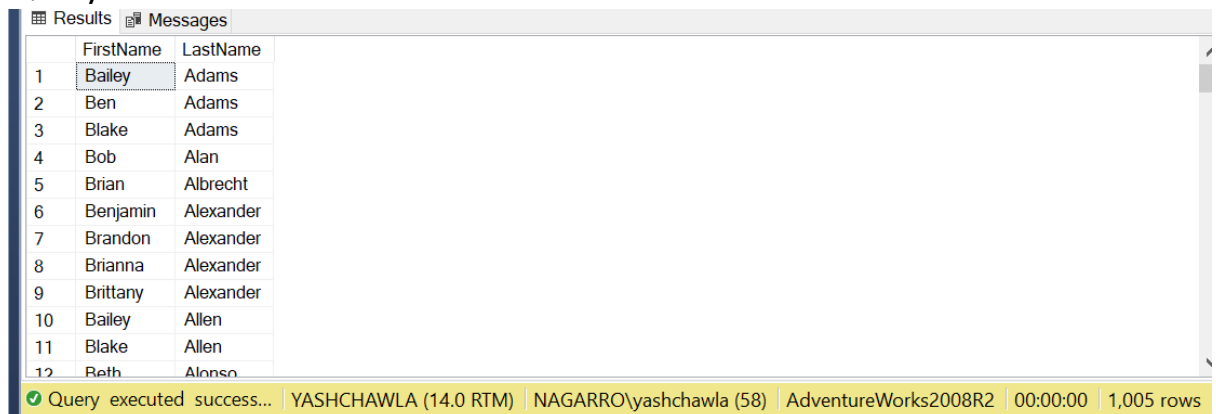
### Query 1:



	NumberOfRecords
1	17

Query executed successfully. YASHCHAWLA (14.0 RTM) NAGARRO\yashchawla (61) AdventureWorks2008R2 00:00:00 1 rows

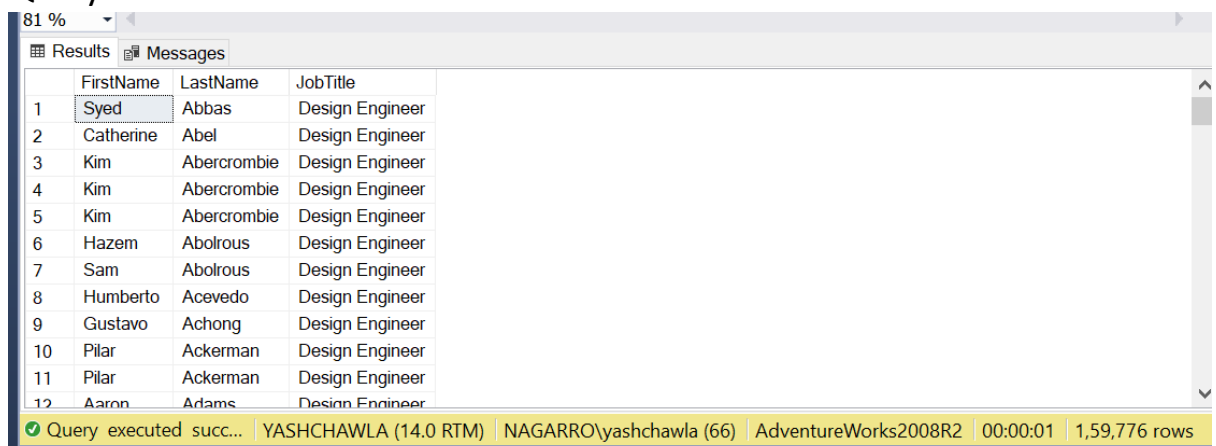
### Query 2:



	FirstName	LastName	JobTitle
1	Bailey	Adams	
2	Ben	Adams	
3	Blake	Adams	
4	Bob	Alan	
5	Brian	Albrecht	
6	Benjamin	Alexander	
7	Brandon	Alexander	
8	Brianna	Alexander	
9	Brittany	Alexander	
10	Bailey	Allen	
11	Blake	Allen	
12	Beth	Alonso	

Query executed success... YASHCHAWLA (14.0 RTM) NAGARRO\yashchawla (58) AdventureWorks2008R2 00:00:00 1,005 rows

### Query 3:



	FirstName	LastName	JobTitle
1	Syed	Abbas	Design Engineer
2	Catherine	Abel	Design Engineer
3	Kim	Abercrombie	Design Engineer
4	Kim	Abercrombie	Design Engineer
5	Kim	Abercrombie	Design Engineer
6	Hazem	Abolrous	Design Engineer
7	Sam	Abolrous	Design Engineer
8	Humberto	Acevedo	Design Engineer
9	Gustavo	Achong	Design Engineer
10	Pilar	Ackerman	Design Engineer
11	Pilar	Ackerman	Design Engineer
12	Aaron	Adams	Design Engineer

Query executed succ... YASHCHAWLA (14.0 RTM) NAGARRO\yashchawla (66) AdventureWorks2008R2 00:00:01 1,59,776 rows

#### Query 4:

81 %

Results Messages

	Name	Color	MaxWeight
1	LL Road Rear Wheel	Black	1050.00

Query executed successfully. YASHCHAWLA (14.0 RTM) NAGARRO\yashchawla (62) AdventureWorks2008R2 00:00:00 1 rows

#### Query 5:

81 %

Results Messages

	Description	MaxQty
1	No Discount	0
2	Volume Discount 11 to 14	14
3	Volume Discount 15 to 24	24
4	Volume Discount 25 to 40	40
5	Volume Discount 41 to 60	60
6	Volume Discount over 60	0
7	Mountain-100 Clearance Sale	0
8	Sport Helmet Discount-2002	0
9	Road-650 Overstock	0
10	Mountain Tire Sale	0
11	Sport Helmet Discount-2003	0
12	LL Road Frame Sale	0

Query executed successfully. YASHCHAWLA (14.0 RTM) NAGARRO\yashchawla (60) AdventureWorks2008R2 00:00:00 16 rows

#### Query 6:

81 %

Results Messages

	Average exchange rate for the day
1	0.6261

Query executed successfully. YASHCHAWLA (14.0 RTM) NAGARRO\yashchawla (53) AdventureWorks2008R2 00:00:00 1 rows

## Query 7:

Results Messages			
	RowNumber	FirstName	LastName
1	1	Alyssa	Alexander
2	2	Alyssa	Ashe
3	3	Alyssa	Bailey
4	4	Alyssa	Barnes
5	5	Alyssa	Bradley
6	6	Alyssa	Brooks
7	7	Alyssa	Brown
8	8	Alyssa	Bryant
9	9	Alyssa	Butler
10	10	Alyssa	Clark
11	11	Alyssa	Coleman
12	12	Alyssa	Cook

Query executed successfully. YASHCHAWLA (14.0 RTM) NAGARRO\yashchawla (55) AdventureWorks2008R2 00:00:00 458 rows

## Query 8:

Results Messages			
	BusinessEntityID	CommissionPct	Commission Band
1	274	0.00	BAND 0
2	285	0.00	BAND 0
3	287	0.00	BAND 0
4	278	0.01	BAND 1
5	279	0.01	BAND 1
6	280	0.01	BAND 1
7	281	0.01	BAND 1
8	275	0.012	BAND 2
9	283	0.012	BAND 2
10	276	0.015	BAND 2
11	277	0.015	BAND 2
12	282	0.015	BAND 2

Query executed successfully. YASHCHAWLA (14.0 RTM) NAGARRO\yashchawla (56) AdventureWorks2008R2 00:00:00 17 rows

## Query 9:

Results Messages							
	RecursionLevel	BusinessEntityID	FirstName	LastName	OrganizationNode	ManagerFirstName	ManagerLastName
1	0	48	Ruth	Ellerbrock	/3/1/3/1/	Andrew	Hill
2	1	47	Andrew	Hill	/3/1/3/	Peter	Krebs
3	2	26	Peter	Krebs	/3/1/	James	Hamilton
4	3	25	James	Hamilton	/3/	Ken	Sánchez

Query executed successfully. YASHCHAWLA (14.0 RTM) NAGARRO\yashchawla (57) AdventureWorks2008R2 00:00:00 4 rows

## Query 10: Without Using Function

The screenshot shows the SQL Server Enterprise Manager interface. At the top, there is a zoom level of 81% and a scroll bar. Below this, there are two tabs: 'Results' and 'Messages'. The 'Results' tab is active, displaying a table with one column, 'ProductID', and one row with the value '379'. The status bar at the bottom indicates that the query was executed successfully, showing the user 'YASHCHAWLA (14.0 RTM)', the server 'NAGARRO\yashchawla (54)', the database 'AdventureWorks2008R2', the execution time '00:00:00', and '1 rows'.

	ProductID
1	379

Query executed successfully. YASHCHAWLA (14.0 RTM) | NAGARRO\yashchawla (54) | AdventureWorks2008R2 | 00:00:00 | 1 rows

## Query 10: Using Function [dbo].[UfnGetStock]

The screenshot shows the SQL Server Enterprise Manager interface. At the top, there is a zoom level of 81% and a scroll bar. Below this, there are two tabs: 'Results' and 'Messages'. The 'Results' tab is active, displaying a table with one column, 'LargestStockProductID', and one row with the value '924'. The status bar at the bottom indicates that the query was executed successfully, showing the user 'YASHCHAWLA (14.0 RTM)', the server 'NAGARRO\yashchawla (54)', the database 'AdventureWorks2008R2', the execution time '00:00:00', and '1 rows'.

	LargestStockProductID
1	924

Query executed successfully. YASHCHAWLA (14.0 RTM) | NAGARRO\yashchawla (54) | AdventureWorks2008R2 | 00:00:00 | 1 rows

## Exercise 2:

### Query 1:

#### Using CTE

```
-- Using CTE
WITH CTE(OrderID,CustID)
AS
(
    SELECT SalesOrderID,CustomerID
    FROM Sales.SalesOrderHeader
)
SELECT *
FROM Sales.Customer C
LEFT JOIN CTE
ON C.CustomerID = CTE.CustID
WHERE CTE.OrderID is NULL
```

81 %

Results Messages

	CustomerID	PersonID	StoreID	TerritoryID	AccountNumber	rowguid	ModifiedDate
1	1	NULL	934	1	AW00000001	3F5AE95E-B87D-4AED-95B4-C3797AFCB74F	2008-10-13 11:15:07.263
2	2	NULL	1028	1	AW00000002	E552F657-A9AF-4A7D-A645-C429D6E02491	2008-10-13 11:15:07.263
3	3	NULL	642	4	AW00000003	130774B1-DB21-4EF3-98C8-C104BCD6ED6D	2008-10-13 11:15:07.263
4	4	NULL	932	4	AW00000004	FF862851-1DAA-4044-BE7C-3E85583C054D	2008-10-13 11:15:07.263
5	5	NULL	1026	4	AW00000005	83905BDC-6F5E-4F71-B162-C98DA069F38A	2008-10-13 11:15:07.263
6	6	NULL	644	4	AW00000006	1A92DF88-BFA2-467D-BD54-FCB9E647FDD7	2008-10-13 11:15:07.263
7	7	NULL	930	1	AW00000007	03E9273E-B193-448E-9823-FE0C44AEED78	2008-10-13 11:15:07.263
8	8	NULL	1024	5	AW00000008	801368B1-4323-4BFA-8BEA-5B5B1E4BD4A0	2008-10-13 11:15:07.263
9	9	NULL	620	5	AW00000009	B900BB7F-23C3-481D-80DA-C49A5BD6F772	2008-10-13 11:15:07.263
10	10	NULL	928	6	AW00000010	CDB6698D-2FF1-4FBA-8F22-60AD1D11DABD	2008-10-13 11:15:07.263
11	11	NULL	1022	6	AW00000011	750F3495-59C4-48A0-80E1-E37EC60E77D9	2008-10-13 11:15:07.263
12	12	NULL	622	6	AW00000012	947BCAF1-1F32-44F3-B9C3-0011F95FBE54	2008-10-13 11:15:07.263
13	13	NULL	434	7	AW00000013	B0FA5854-2511-439B-A7AC-50C9C460B175	2008-10-13 11:15:07.263
14	14	NULL	1020	8	AW00000014	2F000000-7000-4000-8000-000000000000	2008-10-13 11:15:07.263

Query executed successf... YASHCHAWLA (14.0 RTM) NAGARRO\yashchawla (57) AdventureWorks2008R2 00:00:00 701 rows

#### Using EXISTS

```
-- Using "EXISTS()" FUNCTION
-- Exist function
SELECT *
FROM Sales.Customer AS SC
WHERE NOT EXISTS(SELECT CustomerID
                  FROM Sales.SalesOrderHeader AS SOH
                  WHERE SOH.CustomerID = SC.CustomerID)

-- Using Join
```

%

Results Messages

	CustomerID	PersonID	StoreID	TerritoryID	AccountNumber	rowguid	ModifiedDate
1	1	NULL	934	1	AW00000001	3F5AE95E-B87D-4AED-95B4-C3797AFCB74F	2008-10-13 11:15:07.263
2	2	NULL	1028	1	AW00000002	E552F657-A9AF-4A7D-A645-C429D6E02491	2008-10-13 11:15:07.263
3	3	NULL	642	4	AW00000003	130774B1-DB21-4EF3-98C8-C104BCD6ED6D	2008-10-13 11:15:07.263
4	4	NULL	932	4	AW00000004	FF862851-1DAA-4044-BE7C-3E85583C054D	2008-10-13 11:15:07.263
5	5	NULL	1026	4	AW00000005	83905BDC-6F5E-4F71-B162-C98DA069F38A	2008-10-13 11:15:07.263
6	6	NULL	644	4	AW00000006	1A92DF88-BFA2-467D-BD54-FCB9E647FDD7	2008-10-13 11:15:07.263
7	7	NULL	930	1	AW00000007	03E9273E-B193-448E-9823-FE0C44AEED78	2008-10-13 11:15:07.263
8	8	NULL	1024	5	AW00000008	801368B1-4323-4BFA-8BEA-5B5B1E4BD4A0	2008-10-13 11:15:07.263
9	9	NULL	620	5	AW00000009	B900BB7F-23C3-481D-80DA-C49A5BD6F772	2008-10-13 11:15:07.263
10	10	NULL	928	6	AW00000010	CDB6698D-2FF1-4FBA-8F22-60AD1D11DABD	2008-10-13 11:15:07.263
11	11	NULL	1022	6	AW00000011	750F3495-59C4-48A0-80E1-E37EC60E77D9	2008-10-13 11:15:07.263

Query executed successf... YASHCHAWLA (14.0 RTM) NAGARRO\yashchawla (64) AdventureWorks2008R2 00:00:00 701 rows

## USING JOIN

```
-- Using Join
SELECT *
FROM Sales.Customer AS SC
LEFT JOIN Sales.SalesOrderHeader AS SOH
ON SC.CustomerID = SOH.CustomerID
WHERE SOH.SalesOrderID is NULL
ORDER BY SC.CustomerID
```

81 %

Results Messages

	CustomerID	PersonID	StoreID	TerritoryID	AccountNumber	rowguid	ModifiedDate
1	1	NULL	934	1	AW00000001	3F5AE95E-B87D-4AED-95B4-C3797AFCB74F	2008-10-13 11:15:07.263
2	2	NULL	1028	1	AW00000002	E552F657-A9AF-4A7D-A645-C429D6E02491	2008-10-13 11:15:07.263
3	3	NULL	642	4	AW00000003	130774B1-DB21-4EF3-98C8-C104BCD6ED6D	2008-10-13 11:15:07.263
4	4	NULL	932	4	AW00000004	FF862851-1DAA-4044-BE7C-3E85583C054D	2008-10-13 11:15:07.263
5	5	NULL	1026	4	AW00000005	83905BDC-6F5E-4F71-B162-C98DA069F38A	2008-10-13 11:15:07.263
6	6	NULL	644	4	AW00000006	1A92DF88-BFA2-467D-BD54-FCB9E647FDD7	2008-10-13 11:15:07.263
7	7	NULL	930	1	AW00000007	03E9273E-B193-448E-9823-FE0C44AEED78	2008-10-13 11:15:07.263
8	8	NULL	1024	5	AW00000008	801368B1-4323-4BFA-8BEA-5B5B1E4BD4A0	2008-10-13 11:15:07.263
9	9	NULL	620	5	AW00000009	B900BB7F-23C3-481D-80DA-C49A5BD6F772	2008-10-13 11:15:07.263
10	10	NULL	928	6	AW00000010	CDB6698D-2FF1-4FBA-8F22-60AD1D11DABD	2008-10-13 11:15:07.263
11	11	NULL	1022	6	AW00000011	750F3495-59C4-48A0-80E1-E37EC60E77D9	2008-10-13 11:15:07.263

Query executed successf... YASHCHAWLA (14.0 RTM) NAGARRO\yashchawla (64) AdventureWorks2008R2 00:00:00 701 rows

## USING SUBQUERY

```
-- Using "IN" OPERATOR
-- Sub Query
SELECT *
FROM Sales.Customer
WHERE CustomerID NOT IN (SELECT CustomerID
FROM Sales.SalesOrderHeader)
```

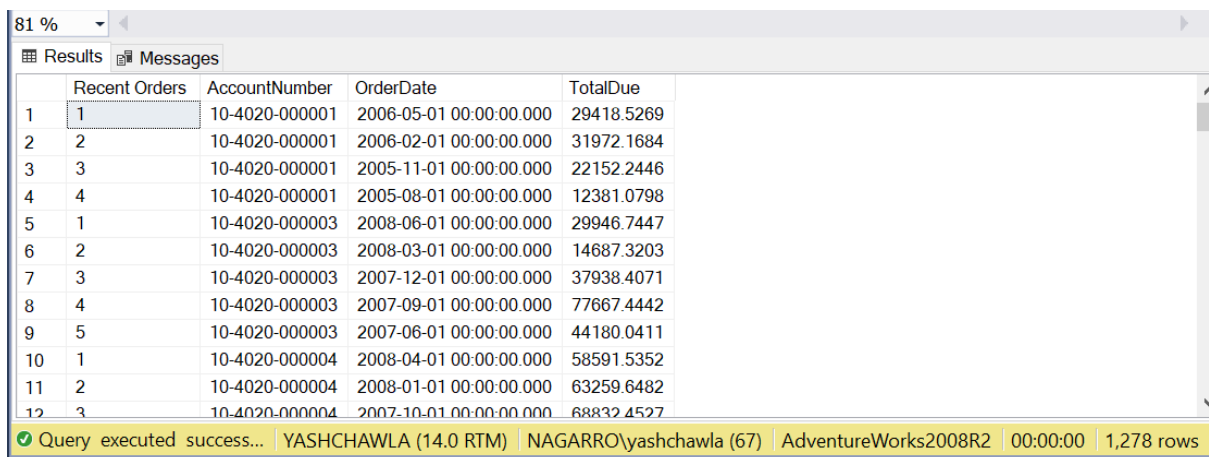
81 %

Results Messages

	CustomerID	PersonID	StoreID	TerritoryID	AccountNumber	rowguid	ModifiedDate
1	1	NULL	934	1	AW00000001	3F5AE95E-B87D-4AED-95B4-C3797AFCB74F	2008-10-13 11:15:07.263
2	2	NULL	1028	1	AW00000002	E552F657-A9AF-4A7D-A645-C429D6E02491	2008-10-13 11:15:07.263
3	3	NULL	642	4	AW00000003	130774B1-DB21-4EF3-98C8-C104BCD6ED6D	2008-10-13 11:15:07.263
4	4	NULL	932	4	AW00000004	FF862851-1DAA-4044-BE7C-3E85583C054D	2008-10-13 11:15:07.263
5	5	NULL	1026	4	AW00000005	83905BDC-6F5E-4F71-B162-C98DA069F38A	2008-10-13 11:15:07.263
6	6	NULL	644	4	AW00000006	1A92DF88-BFA2-467D-BD54-FCB9E647FDD7	2008-10-13 11:15:07.263
7	7	NULL	930	1	AW00000007	03E9273E-B193-448E-9823-FE0C44AEED78	2008-10-13 11:15:07.263
8	8	NULL	1024	5	AW00000008	801368B1-4323-4BFA-8BEA-5B5B1E4BD4A0	2008-10-13 11:15:07.263
9	9	NULL	620	5	AW00000009	B900BB7F-23C3-481D-80DA-C49A5BD6F772	2008-10-13 11:15:07.263
10	10	NULL	928	6	AW00000010	CDB6698D-2FF1-4FBA-8F22-60AD1D11DABD	2008-10-13 11:15:07.263
11	11	NULL	1022	6	AW00000011	750F3495-59C4-48A0-80E1-E37EC60E77D9	2008-10-13 11:15:07.263
12	12	NULL	622	6	AW00000012	947BCAF1-1F32-44F3-B9C3-0011F95FBE54	2008-10-13 11:15:07.263
13	13	NULL	434	7	AW00000013	B0FA5854-2511-439B-A7AC-50C9C460B175	2008-10-13 11:15:07.263
14	14	NULL	1020	8	AW00000014	2F96BEDC-723D-468F-834B-B2B8AE79C849	2008-10-13 11:15:07.263
15	15	NULL	624	9	AW00000015	0340737B-D4FA-4795-93AA-CAEB8371BCF9	2008-10-13 11:15:07.263
16	16	NULL	432	10	AW00000016	C9381589-D31C-4EEF-8078-8D3449E81E0E	2008-10-13 11:15:07.263

Query executed successf... YASHCHAWLA (14.0 RTM) NAGARRO\yashchawla (57) AdventureWorks2008R2 00:00:00 701 rows

### Exercise 3:



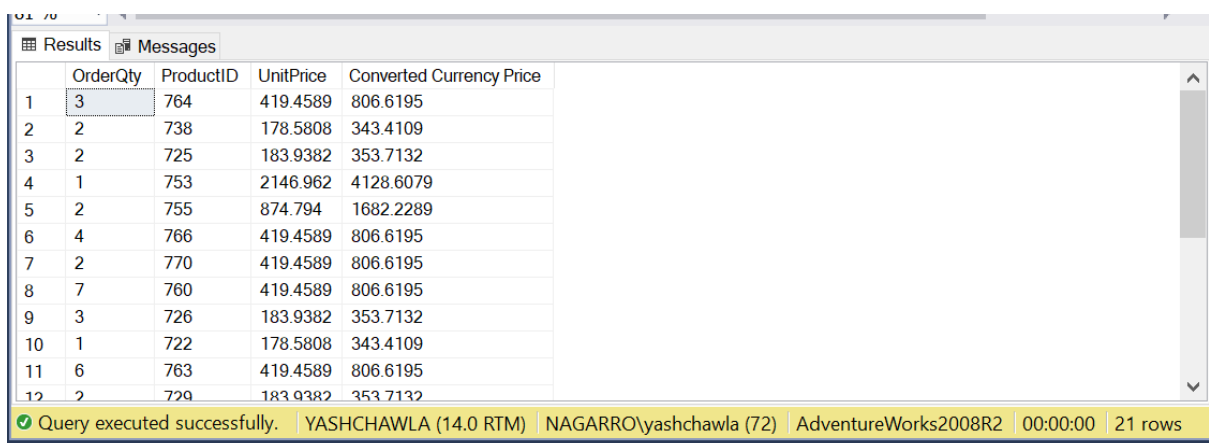
81 %

Results Messages

	Recent Orders	AccountNumber	OrderDate	TotalDue
1	1	10-4020-000001	2006-05-01 00:00:00.000	29418.5269
2	2	10-4020-000001	2006-02-01 00:00:00.000	31972.1684
3	3	10-4020-000001	2005-11-01 00:00:00.000	22152.2446
4	4	10-4020-000001	2005-08-01 00:00:00.000	12381.0798
5	1	10-4020-000003	2008-06-01 00:00:00.000	29946.7447
6	2	10-4020-000003	2008-03-01 00:00:00.000	14687.3203
7	3	10-4020-000003	2007-12-01 00:00:00.000	37938.4071
8	4	10-4020-000003	2007-09-01 00:00:00.000	77667.4442
9	5	10-4020-000003	2007-06-01 00:00:00.000	44180.0411
10	1	10-4020-000004	2008-04-01 00:00:00.000	58591.5352
11	2	10-4020-000004	2008-01-01 00:00:00.000	63259.6482
12	3	10-4020-000004	2007-10-01 00:00:00.000	68832.4527

Query executed successfully. YASHCHAWLA (14.0 RTM) NAGARRO\yashchawla (67) AdventureWorks2008R2 00:00:00 1,278 rows

### Exercise 4:



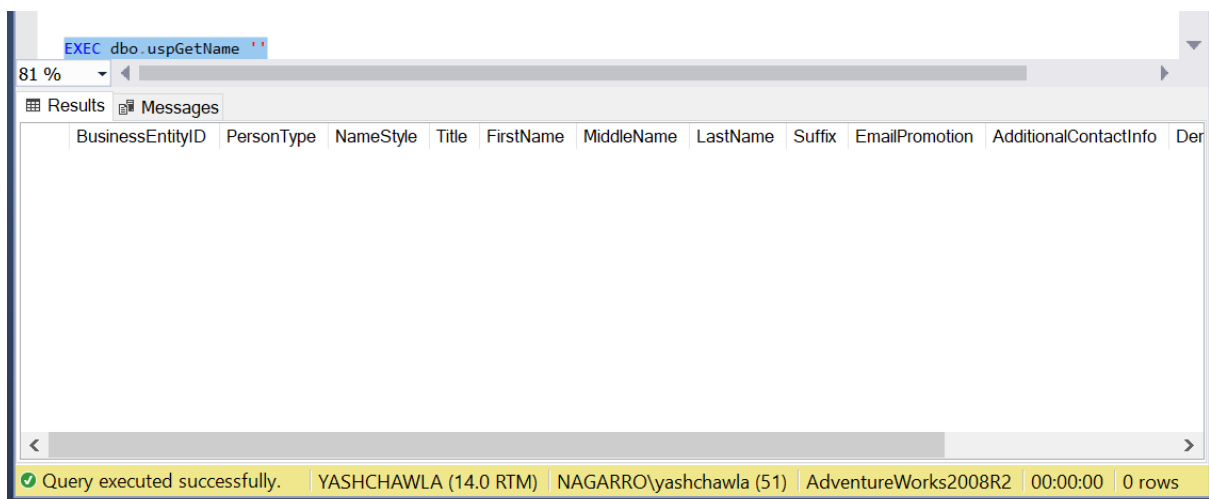
81 %

Results Messages

	OrderQty	ProductID	UnitPrice	Converted Currency Price
1	3	764	419.4589	806.6195
2	2	738	178.5808	343.4109
3	2	725	183.9382	353.7132
4	1	753	2146.962	4128.6079
5	2	755	874.794	1682.2289
6	4	766	419.4589	806.6195
7	2	770	419.4589	806.6195
8	7	760	419.4589	806.6195
9	3	726	183.9382	353.7132
10	1	722	178.5808	343.4109
11	6	763	419.4589	806.6195
12	2	729	183.9382	353.7132

Query executed successfully. YASHCHAWLA (14.0 RTM) NAGARRO\yashchawla (72) AdventureWorks2008R2 00:00:00 21 rows

### Exercise 5:



EXEC dbo.uspGetName

81 %

Results Messages

BusinessEntityID	PersonType	NameStyle	Title	FirstName	MiddleName	LastName	Suffix	EmailPromotion	AdditionalContactInfo	Der
------------------	------------	-----------	-------	-----------	------------	----------	--------	----------------	-----------------------	-----

Query executed successfully. YASHCHAWLA (14.0 RTM) NAGARRO\yashchawla (51) AdventureWorks2008R2 00:00:00 0 rows

## Exercise 6:

Update ListPrice by **more** than 15% as compared to old price.

```
update Production.Product
set ListPrice = 620
where ProductID = 987
```

81 %

Messages

List Price can not be raised more than 15% of the Old List Price  
Msg 3609, Level 16, State 1, Line 32  
The transaction ended in the trigger. The batch has been aborted.

Completion time: 2021-06-07T15:38:19.1965769+05:30

81 %

Query completed with errors. | YASHCHAWLA (14.0 RTM) | NAGARRO\yashchawla (76) | AdventureWorks2008R2 | 00:00:00 | 0 rows

Update ListPrice by **less** than 15% as compared to old price.

```
update Production.Product
set ListPrice = 62
where ProductID = 987

--after update is done successfully check the List Price is updated--
select*
```

81 %

Messages

List Price is updated successfully...

(1 row affected)

Completion time: 2021-06-07T15:39:19.6843333+05:30

81 %

Query executed successfully. | YASHCHAWLA (14.0 RTM) | NAGARRO\yashchawla (76) | AdventureWorks2008R2 | 00:00:00 | 0 rows