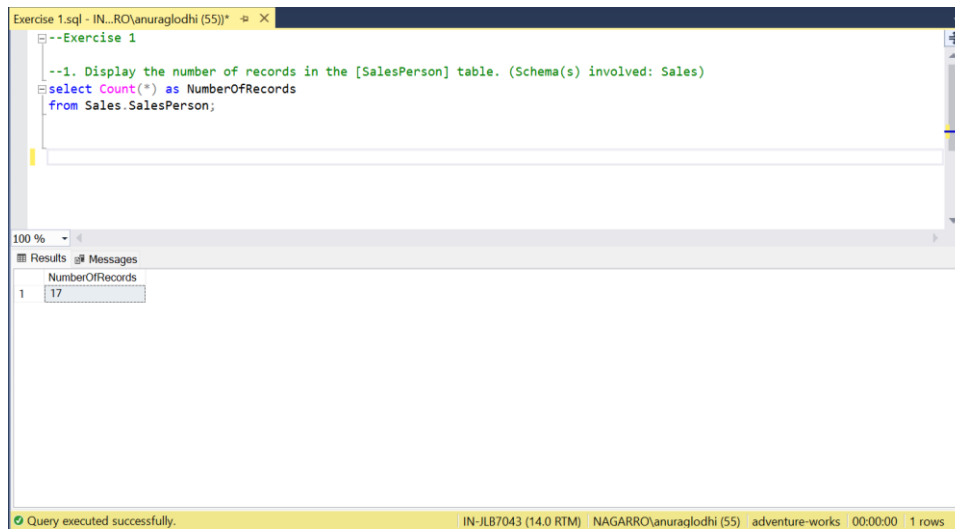


--Exercise 1

--1. Display the number of records in the [SalesPerson] table. (Schema(s) involved: Sales)

```
select Count(*) as NumberOfRecords
```

```
from Sales.SalesPerson;
```



The screenshot shows a SQL Server Enterprise Manager window titled "Exercise 1.sql - IN...RO\anuraglodhi (55)". The query editor contains the following SQL code:

```
--Exercise 1  
  
--1. Display the number of records in the [SalesPerson] table. (Schema(s) involved: Sales)  
select Count(*) as NumberOfRecords  
from Sales.SalesPerson;
```

Below the query editor, the "Results" tab is selected, showing a single row with the value 17 under the column header "NumberOfRecords".

NumberOfRecords
17

The status bar at the bottom indicates "Query executed successfully." and "1 rows".

--2. Select both the FirstName and LastName of records from the Person table where the FirstName begins with the letter 'B'. (Schema(s) involved: Person)

select FirstName, LastName

from Person.Person

where FirstName like 'B%';

Exercise 1.sql - IN...RO\anuraglodhi (55) X

--Exercise 1

--2. Select both the FirstName and LastName of records from the Person table where the FirstName begins with the letter 'B'

```
select FirstName, LastName
from Person.Person
where FirstName like 'B%';
```

100 %

Results Messages

	FirstName	LastName
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
13	Billy	Alonso

Query executed successfully. IN-JLB7043 (14.0 RTM) NAGARRO\anuraglodhi (55) adventure-works 00:00:00 1,005 rows

100 %

Results Messages

	FirstName	LastName
19	Bradley	Anand
20	Brendan	Anand
21	Bridget	Anand
22	Barbara	Andersen
23	Bethany	Andersen
24	Bonnie	Andersen
25	Brad	Andersen
26	Bradley	Andersen
27	Brendan	Andersen
28	Bridget	Andersen
29	Benjamin	Anderson
30	Blake	Anderson
31	Brandon	Anderson

Query executed successfully. IN-JLB7043 (14.0 RTM) NAGARRO\anuraglodhi (55) adventure-works 00:00:00 1,005 rows

Results Messages

	FirstName	LastName
64	Bradley	Beck
65	Brendan	Beck
66	Benjamin	Becker
67	Bailey	Bell
68	Brian	Bell
69	Brianna	Bell
70	Brooke	Bell
71	Bryan	Bell
72	Bryce	Bell
73	Blake	Bennett
74	Brittany	Bennett
75	Beth	Blanco
76	Billy	Blanco

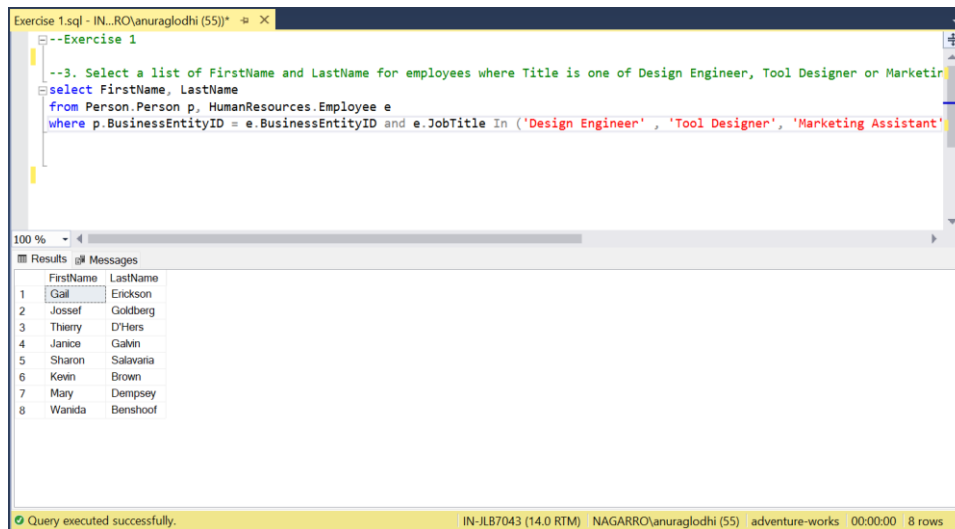
Query executed successfully. IN-JLB7043 (14.0 RTM) NAGARRO\anuraglodhi (55) adventure-works 00:00:00 1,005 rows

--3. Select a list of FirstName and LastName for employees where Title is one of Design Engineer, Tool Designer or Marketing Assistant. (Schema(s) involved: HumanResources, Person)

select FirstName, LastName

from Person.Person p, HumanResources.Employee e

where p.BusinessEntityID = e.BusinessEntityID and e.JobTitle In ('Design Engineer', 'Tool Designer', 'Marketing Assistant');



The screenshot shows a SQL Server Enterprise Manager window with a query editor and a results pane. The query editor contains the following SQL code:

```
--Exercise 1
--3. Select a list of FirstName and LastName for employees where Title is one of Design Engineer, Tool Designer or Marketing Assistant.
select FirstName, LastName
from Person.Person p, HumanResources.Employee e
where p.BusinessEntityID = e.BusinessEntityID and e.JobTitle In ('Design Engineer', 'Tool Designer', 'Marketing Assistant');
```

The results pane shows the following data:

	FirstName	LastName
1	Gail	Erickson
2	Josief	Goldberg
3	Thierry	D'Hers
4	Janice	Galvin
5	Sharon	Salavaria
6	Kevin	Brown
7	Mary	Dempsey
8	Wanda	Benshoof

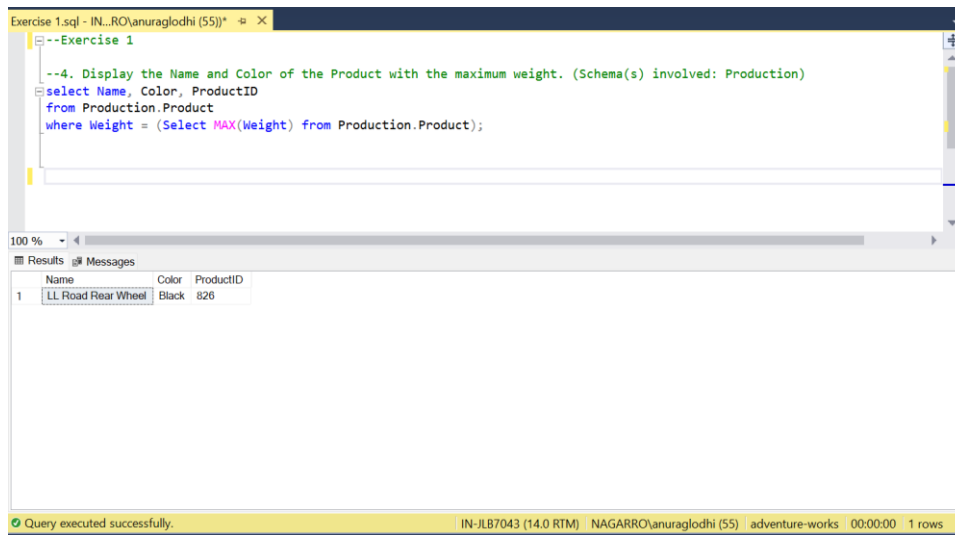
The status bar at the bottom indicates: Query executed successfully. IN-JLB7043 (14.0 RTM) NAGARRO\anuraglodhi (55) adventure-works 00:00:00 8 rows

--4. Display the Name and Color of the Product with the maximum weight. (Schema(s) involved: Production)

select Name, Color, ProductID

from Production.Product

where Weight = (Select MAX(Weight) from Production.Product);



The screenshot shows a SQL Server Enterprise Manager window titled "Exercise 1.sql - IN-JLB7043 (14.0 RTM) NAGARRO\anuraglodhi (55) adventure-works". The query editor displays the following SQL code:

```
--Exercise 1
--4. Display the Name and Color of the Product with the maximum weight. (Schema(s) involved: Production)
select Name, Color, ProductID
from Production.Product
where Weight = (Select MAX(Weight) from Production.Product);
```

Below the query editor, the "Results" tab is selected, showing a table with the following data:

	Name	Color	ProductID
1	LL Road Rear Wheel	Black	826

The status bar at the bottom indicates "Query executed successfully." and "1 rows".

--5. Display Description and MaxQty fields from the SpecialOffer table. Some of the MaxQty values are NULL, in this case display the value 0.00 instead. (Schema(s) involved: Sales)

select isnull(MaxQty,0.00) as MaxQty,Description

FROM Sales.SpecialOffer;

Exercise 1.sql - IN...RO\anuraglodhi (55) * x

--Exercise 1

--5. Display Description and MaxQty fields from the SpecialOffer table. Some of the MaxQty values are NULL, in this case display the value 0.00 instead. (Schema(s) involved: Sales)

```
select isnull(MaxQty,0.00) as MaxQty,Description
FROM Sales.SpecialOffer;
```

100 %

Results Messages

	MaxQty	Description
1	0	No Discount
2	14	Volume Discount 11 to 14
3	24	Volume Discount 15 to 24
4	40	Volume Discount 25 to 40
5	60	Volume Discount 41 to 60
6	0	Volume Discount over 60
7	0	Mountain-100 Clearance Sale
8	0	Sport Helmet Discount-2002
9	0	Road-650 Overstock
10	0	Mountain Tire Sale
11	0	Sport Helmet Discount-2003
12	0	LL Road Frame Sale
13	0	Touring-3000 Promotion

Query executed successfully. IN-JLB7043 (14.0 RTM) NAGARRO\anuraglodhi (55) adventure-works 00:00:00 16 rows

100 %

Results Messages

	MaxQty	Description
4	40	Volume Discount 25 to 40
5	60	Volume Discount 41 to 60
6	0	Volume Discount over 60
7	0	Mountain-100 Clearance Sale
8	0	Sport Helmet Discount-2002
9	0	Road-650 Overstock
10	0	Mountain Tire Sale
11	0	Sport Helmet Discount-2003
12	0	LL Road Frame Sale
13	0	Touring-3000 Promotion
14	0	Touring-1000 Promotion
15	0	Half-Price Pedal Sale
16	0	Mountain-500 Silver Clearan...

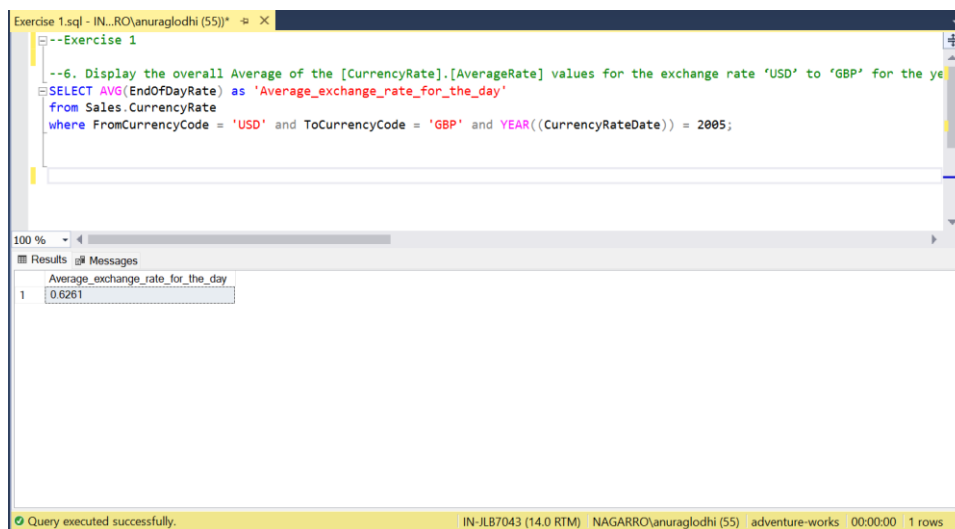
Query executed successfully. IN-JLB7043 (14.0 RTM) NAGARRO\anuraglodhi (55) adventure-works 00:00:00 16 rows

--6. Display the overall Average of the [CurrencyRate].[AverageRate] values for the exchange rate 'USD' to 'GBP' for the year 2005 i.e. FromCurrencyCode = 'USD' and ToCurrencyCode = 'GBP'. Note: The field [CurrencyRate].[AverageRate] is defined as 'Average exchange rate for the day.' (Schema(s) involved: Sales)

```
SELECT AVG(EndOfDayRate) as 'Average_exchange_rate_for_the_day'
```

```
from Sales.CurrencyRate
```

```
where FromCurrencyCode = 'USD' and ToCurrencyCode = 'GBP' and YEAR((CurrencyRateDate)) = 2005;
```



The screenshot shows a SQL Server Enterprise Manager window titled 'Exercise 1.sql - IN...RO\anuraglodhi (55)'. The query editor displays the following SQL code:

```
--Exercise 1
--6. Display the overall Average of the [CurrencyRate].[AverageRate] values for the exchange rate 'USD' to 'GBP' for the ye
SELECT AVG(EndOfDayRate) as 'Average_exchange_rate_for_the_day'
from Sales.CurrencyRate
where FromCurrencyCode = 'USD' and ToCurrencyCode = 'GBP' and YEAR((CurrencyRateDate)) = 2005;
```

The Results pane shows a single row with the column 'Average_exchange_rate_for_the_day' and the value 0.6261.

	Average_exchange_rate_for_the_day
1	0.6261

The status bar at the bottom indicates 'Query executed successfully.' and '1 rows'.

--7. Display the FirstName and LastName of records from the Person table where FirstName contains the letters 'ss'. Display an additional column with sequential numbers for each row returned beginning at integer 1. (Schema(s) involved: Person)

```
select ROW_NUMBER() Over(Order by FirstName) No, FirstName, lastName
```

```
from Person.Person
```

```
Where FirstName like '%ss%';
```

Exercise 1.sql - IN_ROM\anuraglodhi (55) * X

```
--Exercise 1
--7. Display the FirstName and LastName of records from the Person table where FirstName contains the letters 'ss'. Display
select ROW_NUMBER() Over(Order by FirstName) No, FirstName, lastName
from Person.Person
where FirstName like '%ss%';
```

100 %

No	FirstName	lastName
1	Alyssa	Alexander
2	Alyssa	Ashe
3	Alyssa	Bailey
4	Alyssa	Barnes
5	Alyssa	Bradley
6	Alyssa	Brooks
7	Alyssa	Brown
8	Alyssa	Bryant
9	Alyssa	Butler
10	Alyssa	Clark
11	Alyssa	Coleman
12	Alyssa	Cook
13	Alyssa	Cox

Query executed successfully. IN-JLB7043 (14.0 RTM) NAGARRO\anuraglodhi (55) adventure-works 00:00:00 458 rows

No	FirstName	lastName
28	Alyssa	James
29	Alyssa	Jenkins
30	Alyssa	Johnson
31	Alyssa	Jones
32	Alyssa	Kelly
33	Alyssa	Lee
34	Alyssa	Lewis
35	Alyssa	Martin
36	Alyssa	Martinez
37	Alyssa	Miller
38	Alyssa	Morgan
39	Alyssa	Morris
40	Alyssa	Moore

No	FirstName	lastName
67	Alyssa	Wood
68	Cassan...	Van
69	Cassan...	Sini
70	Cassan...	Subram
71	Cassan...	Suri
72	Cassan...	Sanchez
73	Cassan...	Sara
74	Cassan...	Sai
75	Cassan...	Rana
76	Cassan...	Raman
77	Cassan...	Prasad
78	Cassan...	Perez
79	Cassan...	Patel

Query executed successfully. IN-JLB7043 (14.0 RTM) NAGARRO\anuraglodhi (55) adventure-works 00:00:00 458 rows

--8. Sales people receive various commission rates that belong to 1 of 4 bands. (Schema(s) involved: Sales)Display the [SalesPersonID] with an additional column entitled 'Commission Band' indicating the appropriate band as above

select BusinessEntityID as SalesPersonId,

case when CommissionPct = 0 then 'Band 0'

when CommissionPct > 0 and CommissionPct <= 0.01 then 'Band 1'

when CommissionPct > 0.01 and CommissionPct <= 0.015 then 'Band 2'

when CommissionPct > 0.015 then 'Band 3'

end as CommissionBand

from Sales.SalesPerson;

The screenshot shows a SQL query window with the following text:

```
--Exercise 1
--8. Sales people receive various commission rates that belong to 1 of 4 bands. (Schema(s) involved: Sales)Display the [SalesPersonID] with an additional column entitled 'Commission Band' indicating the appropriate band as above
select BusinessEntityID as SalesPersonId,
case when CommissionPct = 0 then 'Band 0'
when CommissionPct > 0 and CommissionPct <= 0.01 then 'Band 1'
when CommissionPct > 0.01 and CommissionPct <= 0.015 then 'Band 2'
when CommissionPct > 0.015 then 'Band 3'
end as CommissionBand
from Sales.SalesPerson;
```

Below the query window, the 'Results' tab displays a table with two columns: SalesPersonId and CommissionBand. The table contains 13 rows of data.

SalesPersonId	CommissionBand
274	Band 0
275	Band 2
276	Band 2
277	Band 2
278	Band 1
279	Band 1
280	Band 1
281	Band 1
282	Band 2
283	Band 2
284	Band 3
285	Band 0
286	Band 3

The status bar at the bottom indicates: Query executed successfully. IN-JLB7043 (14.0 RTM) NAGARRO\anuraglodhi (55) adventure-works 00:00:00 17 rows

The screenshot shows a SQL query window with the following text:

```
--Exercise 1
--8. Sales people receive various commission rates that belong to 1 of 4 bands. (Schema(s) involved: Sales)Display the [SalesPersonID] with an additional column entitled 'Commission Band' indicating the appropriate band as above
select BusinessEntityID as SalesPersonId,
case when CommissionPct = 0 then 'Band 0'
when CommissionPct > 0 and CommissionPct <= 0.01 then 'Band 1'
when CommissionPct > 0.01 and CommissionPct <= 0.015 then 'Band 2'
when CommissionPct > 0.015 then 'Band 3'
end as CommissionBand
from Sales.SalesPerson;
```

Below the query window, the 'Results' tab displays a table with two columns: SalesPersonId and CommissionBand. The table contains 13 rows of data.

SalesPersonId	CommissionBand
278	Band 1
279	Band 1
280	Band 1
281	Band 1
282	Band 2
283	Band 2
284	Band 3
285	Band 0
286	Band 3
287	Band 0
288	Band 3
289	Band 3
290	Band 3

The status bar at the bottom indicates: Query executed successfully. IN-JLB7043 (14.0 RTM) NAGARRO\anuraglodhi (55) adventure-works 00:00:00 17 rows

--9. Display the managerial hierarchy from Ruth Ellerbrock (person type – EM) up to CEO Ken Sanchez.
Hint: use [uspGetEmployeeManagers] (Schema(s) involved: [Person], [HumanResources])

```
DECLARE @EID int =
```

```
( SELECT Person.Person.BusinessEntityID
```

```
FROM Person.Person WHERE FirstName = 'Ruth' AND LastName = 'Ellerbrock' AND PersonType = 'EM' );
```

```
EXEC dbo.uspGetEmployeeManagers @BusinessEntityID = @EID;
```

The screenshot shows a SQL Server Enterprise Manager window titled 'Exercise 1.sql - IN...RO\anuraglodhi (55)'. The query editor contains the following T-SQL script:

```
--Exercise 1
--9. Display the managerial hierarchy from Ruth Ellerbrock (person type – EM) up to CEO Ken Sanchez. Hint: use [uspGetEmployeeManagers]
DECLARE @EID int =
( SELECT Person.Person.BusinessEntityID
FROM Person.Person WHERE FirstName = 'Ruth' AND LastName = 'Ellerbrock' AND PersonType = 'EM' );
EXEC dbo.uspGetEmployeeManagers @BusinessEntityID = @EID;
```

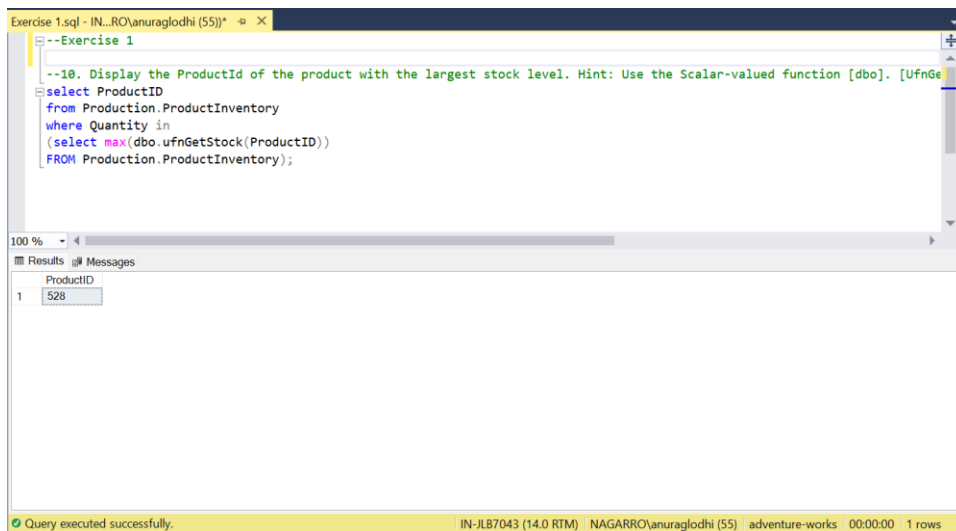
The 'Results' tab shows the output of the query, which is a table with 7 columns: RecursionLevel, BusinessEntityID, FirstName, LastName, OrganizationNode, ManagerFirstName, and ManagerLastName. The table contains 4 rows of data, representing the managerial hierarchy from Ruth Ellerbrock up to CEO Ken Sanchez.

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

The status bar at the bottom indicates 'Query executed successfully.' and 'IN-JLB7043 (14.0 RTM) NAGARRO\anuraglodhi (55) adventure-works 00:00:00 4 rows'.

--10. Display the ProductId of the product with the largest stock level. Hint: Use the Scalar-valued function [dbo].[UfnGetStock]. (Schema(s) involved: Production)*/

```
select ProductID
from Production.ProductInventory
where Quantity in
(select max(dbo.ufnGetStock(ProductID))
FROM Production.ProductInventory);
```



The screenshot shows a SQL Server Enterprise Manager window with a query editor and a results pane. The query editor contains the following SQL code:

```
--Exercise 1
--10. Display the ProductId of the product with the largest stock level. Hint: Use the Scalar-valued function [dbo].[UfnGetStock]. (Schema(s) involved: Production)*/
select ProductID
from Production.ProductInventory
where Quantity in
(select max(dbo.ufnGetStock(ProductID))
FROM Production.ProductInventory);
```

The results pane shows a single row with the ProductID 528.

ProductID
528

The status bar at the bottom indicates: Query executed successfully. IN-JLB7043 (14.0 RTM) NAGARRO\anuraglodhi (55) adventure-works 00:00:00 1 rows

/*

Exercise 2: Write separate queries using a join, a subquery, a CTE, and then an EXISTS to list all AdventureWorks customers who have not placed

an order.

*/

--Using Join

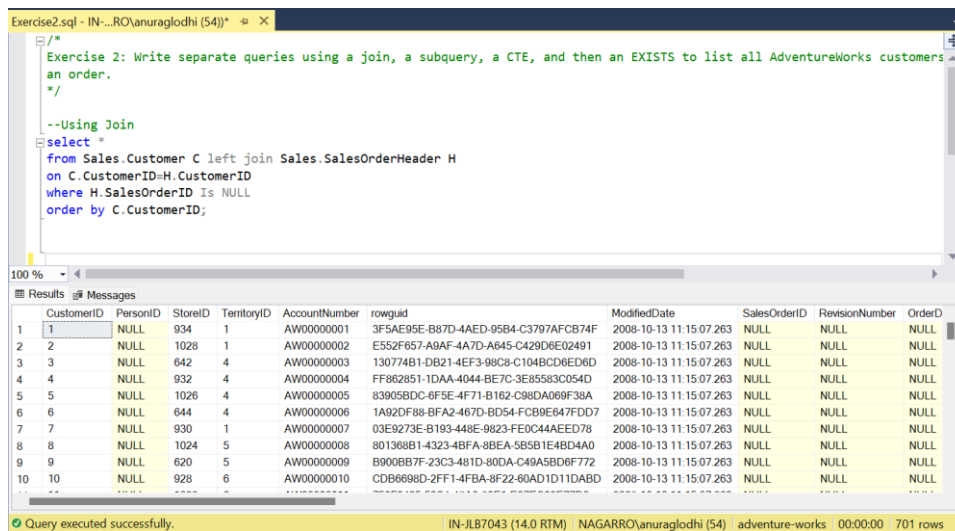
select *

from Sales.Customer C left join Sales.SalesOrderHeader H

on C.CustomerID=H.CustomerID

where H.SalesOrderID Is NULL

order by C.CustomerID;



The screenshot shows a SQL Server Enterprise Manager window titled 'Exercise2.sql - IN-ILB7043 (14.0 RTM)'. The query window contains the following T-SQL code:

```
/*
Exercise 2: Write separate queries using a join, a subquery, a CTE, and then an EXISTS to list all AdventureWorks customers
an order.
*/

--Using Join
select *
from Sales.Customer C left join Sales.SalesOrderHeader H
on C.CustomerID=H.CustomerID
where H.SalesOrderID Is NULL
order by C.CustomerID;
```

The Results pane shows the output of the query, which is a list of 10 customers. The columns are: CustomerID, PersonID, StoreID, TerritoryID, AccountNumber, rowguid, ModifiedDate, SalesOrderID, RevisionNumber, and OrderD. The first 10 rows are displayed, showing customers with SalesOrderID NULL.

CustomerID	PersonID	StoreID	TerritoryID	AccountNumber	rowguid	ModifiedDate	SalesOrderID	RevisionNumber	OrderD
1	1	934	1	AW00000001	3F5AE95E-B87D-4AED-95B4-C3797AFCB74F	2008-10-13 11:15:07.263	NULL	NULL	NULL
2	2	1028	1	AW00000002	E552F657-A8AF-4A7D-A845-C429D8E02491	2008-10-13 11:15:07.263	NULL	NULL	NULL
3	3	642	4	AW00000003	130774B1-DB21-4EF3-98C8-C104BCD6ED6D	2008-10-13 11:15:07.263	NULL	NULL	NULL
4	4	932	4	AW00000004	FF862851-1DAA-4044-BE7C-3E85583C054D	2008-10-13 11:15:07.263	NULL	NULL	NULL
5	5	1026	4	AW00000005	83905BDC-6F5E-4F71-B162-C98DA069F38A	2008-10-13 11:15:07.263	NULL	NULL	NULL
6	6	644	4	AW00000006	1A92DF88-BFA2-467D-BD54-FCB9E647FDD7	2008-10-13 11:15:07.263	NULL	NULL	NULL
7	7	930	1	AW00000007	03E9273E-B193-448E-9823-FE9C44AEED78	2008-10-13 11:15:07.263	NULL	NULL	NULL
8	8	1024	5	AW00000008	801368B1-4323-4BFA-8BEA-5B5B1E4BD4A0	2008-10-13 11:15:07.263	NULL	NULL	NULL
9	9	620	5	AW00000009	B900BB7F-23C3-481D-80DA-C49A5BD6F772	2008-10-13 11:15:07.263	NULL	NULL	NULL
10	10	928	6	AW00000010	CDB6698D-2FF1-4FBA-8F22-60AD1D11DABD	2008-10-13 11:15:07.263	NULL	NULL	NULL

The status bar at the bottom indicates: 'Query executed successfully. IN-ILB7043 (14.0 RTM) NAGARRO\anuraglodhi (54) adventure-works 00:00:00 701 rows'.

100 % ▾

Results Messages

	CustomerID	PersonID	StoreID	TerritoryID	AccountNumber	rowguid	ModifiedDate	SalesOrderID	RevisionNumber	OrderD
22	22	NULL	494	3	AW00000022	9774AED6-D673-412D-B481-2573E470B478	2008-10-13 11:15:07.263	NULL	NULL	NULL
23	23	NULL	1014	4	AW00000023	733F8250-3251-4C2A-8C85-C285BB76B7B4	2008-10-13 11:15:07.263	NULL	NULL	NULL
24	24	NULL	1336	4	AW00000024	C111E51D-178D-4DBD-A6FF-F1CCBF4B1A...	2008-10-13 11:15:07.263	NULL	NULL	NULL
25	25	NULL	492	4	AW00000025	31D03546-FB2A-4488-890E-4709A659E3F0	2008-10-13 11:15:07.263	NULL	NULL	NULL
26	26	NULL	1012	5	AW00000026	FD4898DE-D128-4719-8C74-9F77605AAC4A	2008-10-13 11:15:07.263	NULL	NULL	NULL
27	27	NULL	1338	5	AW00000027	CACA5149-D799-473B-847F-83F3613D3D1F	2008-10-13 11:15:07.263	NULL	NULL	NULL
28	28	NULL	490	6	AW00000028	9B8A04A4-D909-4F49-B1C5-3DE317D69B2A	2008-10-13 11:15:07.263	NULL	NULL	NULL
29	29	NULL	1010	6	AW00000029	ECA7C8FA-490B-4B97-9C32-043C90F789E8	2008-10-13 11:15:07.263	NULL	NULL	NULL
30	30	NULL	1340	6	AW00000030	2B15DFB1-831E-49E7-B337-395798B129E7	2008-10-13 11:15:07.263	NULL	NULL	NULL
31	31	NULL	942	7	AW00000031	EFFA209A-A110-4F94-887D-E50E44FB06EA	2008-10-13 11:15:07.263	NULL	NULL	NULL

Query executed successfully. IN-JLB7043 (14.0 RTM) NAGARRO\anuraglodhi (54) adventure-works 00:00:00 701 rows

Results Messages

	CustomerID	PersonID	StoreID	TerritoryID	AccountNumber	rowguid	ModifiedDate	SalesOrderID	RevisionNumber	OrderD
692	692	NULL	802	1	AW00000692	9EE96279-78D5-49B7-AC4A-1C43CFB80249	2008-10-13 11:15:07.263	NULL	NULL	NULL
693	693	NULL	838	1	AW00000693	3B38D4CB-9573-4686-A202-9179DBEFC7B8	2008-10-13 11:15:07.263	NULL	NULL	NULL
694	694	NULL	1034	3	AW00000694	D3E874DC-A10C-4055-B943-9DBD5CFE8C89	2008-10-13 11:15:07.263	NULL	NULL	NULL
695	695	NULL	638	3	AW00000695	77A62D9C-4ED6-4266-AE35-40CC330ACC5E	2008-10-13 11:15:07.263	NULL	NULL	NULL
696	696	NULL	840	1	AW00000696	A0140DD4-4D10-4091-9D89-95873DAE9BB7	2008-10-13 11:15:07.263	NULL	NULL	NULL
697	697	NULL	1032	1	AW00000697	B30CE5B4-BBFA-4A57-B5C2-EED1EF13E0BE	2008-10-13 11:15:07.263	NULL	NULL	NULL
698	698	NULL	640	1	AW00000698	6BC4FF5A-0696-4C2A-88F9-08D1DBA91B74	2008-10-13 11:15:07.263	NULL	NULL	NULL
699	699	NULL	842	5	AW00000699	38A528AA-0402-4ED9-ABBB-983BCFB37D40	2008-10-13 11:15:07.263	NULL	NULL	NULL
700	700	NULL	1030	5	AW00000700	540FB57F-F81A-4794-8E9A-C071C4F0BC18	2008-10-13 11:15:07.263	NULL	NULL	NULL
701	701	NULL	844	6	AW00000701	61AE9625-8BD8-48B7-B171-8A90CBB494C	2008-10-13 11:15:07.263	NULL	NULL	NULL

Query executed successfully. IN-JLB7043 (14.0 RTM) NAGARRO\anuraglodhi (54) adventure-works 00:00:00 701 rows

--Using SubQuery

select*

from Sales.Customer C

where C.CustomerID Not In

(select Sales.SalesOrderHeader.CustomerID

from Sales.SalesOrderHeader);

Exercise2.sql - IN-RO\anuraglodhi (54) * X

```
/*
Exercise 2: Write separate queries using a join, a subquery, a CTE, and then an EXISTS to list all AdventureWorks customers
an order.
*/

--Using SubQuery
select*
from Sales.Customer C
where C.CustomerID Not In
(select Sales.SalesOrderHeader.CustomerID
from Sales.SalesOrderHeader);
```

100 %

	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-FC0C44AEE078	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-C49A5B06F772	2008-10-13 11:15:07.263
10	10	NULL	928	6	AW00000010	CDB6698D-2FF1-4FBA-8F22-60AD1D1DABD	2008-10-13 11:15:07.263
11	11	NULL	1022	6	AW00000011	750F3495-59C4-48A0-80E1-E37EC60E7D9	2008-10-13 11:15:07.263

Query executed successfully. IN-JLB7043 (14.0 RTM) NAGARRO\anuraglodhi (54) adventure-works 00:00:00 701 rows

100 %

	CustomerID	PersonID	StoreID	TerritoryID	AccountNumber	rowguid	ModifiedDate
28	28	NULL	490	6	AW00000028	9B8A04A4-D909-4F49-B1C5-3DE317D69B2A	2008-10-13 11:15:07.263
29	29	NULL	1010	6	AW00000029	ECA7C8FA-490B-4B97-9C32-043C90F78E8	2008-10-13 11:15:07.263
30	30	NULL	1340	6	AW00000030	2B150FB1-831E-49E7-B337-395798B129E7	2008-10-13 11:15:07.263
31	31	NULL	942	7	AW00000031	EFFA209A-A110-4F94-887D-E50E44FB06EA	2008-10-13 11:15:07.263
32	32	NULL	1008	8	AW00000032	B9A28813-542A-4FBF-AE79-BAD6A4A5E133B	2008-10-13 11:15:07.263
33	33	NULL	1342	9	AW00000033	E6D02B96-FA82-41C0-8945-66A8A5EC017B	2008-10-13 11:15:07.263
34	34	NULL	940	10	AW00000034	9EDDA794-7862-4FF4-B8E2-528847CA82BD	2008-10-13 11:15:07.263
35	35	NULL	1006	2	AW00000035	8D74B6B9-6C96-4AA5-BEC4-0E9736D191BE	2008-10-13 11:15:07.263
36	36	NULL	1344	2	AW00000036	53C0491D-8AE8-4B16-A830-2078DFDF46AD	2008-10-13 11:15:07.263
37	37	NULL	938	1	AW00000037	C6EBB29A-CC67-459C-90E3-339E0F912906	2008-10-13 11:15:07.263
38	38	NULL	1004	1	AW00000038	E5EDA3F3-4EF1-4806-BD36-E61F3CB2E044	2008-10-13 11:15:07.263

Query executed successfully. IN-JLB7043 (14.0 RTM) NAGARRO\anuraglodhi (54) adventure-works 00:00:00 701 rows

100 %

	CustomerID	PersonID	StoreID	TerritoryID	AccountNumber	rowguid	ModifiedDate
691	691	NULL	1036	2	AW00000691	6C7F3484-142C-425A-A0F9-BA2201079A5C	2008-10-13 11:15:07.263
692	692	NULL	802	1	AW00000692	9EE96279-78D5-49B7-AC4A-1C43CFB80249	2008-10-13 11:15:07.263
693	693	NULL	838	1	AW00000693	3B38D4CB-9573-4686-A202-9179DBEFC7B8	2008-10-13 11:15:07.263
694	694	NULL	1034	3	AW00000694	D3E874DC-A10C-4055-B943-9DBD5CFE8C89	2008-10-13 11:15:07.263
695	695	NULL	638	3	AW00000695	77A62D9C-4ED6-4266-AE35-40CC330ACC5E	2008-10-13 11:15:07.263
696	696	NULL	840	1	AW00000696	A0140DD4-4D10-4091-9D89-95873DAE9BB7	2008-10-13 11:15:07.263
697	697	NULL	1032	1	AW00000697	B30CE5B4-BBFA-4A57-B5C2-EED1EF13E0BE	2008-10-13 11:15:07.263
698	698	NULL	640	1	AW00000698	6BC4FF5A-0696-4C2A-88F9-08D1DBA91B74	2008-10-13 11:15:07.263
699	699	NULL	842	5	AW00000699	38A528AA-0402-4ED9-ABBB-983BCEB37D40	2008-10-13 11:15:07.263
700	700	NULL	1030	5	AW00000700	540FB57F-F81A-4794-8E9A-C071C4F0BC18	2008-10-13 11:15:07.263
701	701	NULL	844	6	AW00000701	61AE9625-8BD8-48B7-B171-8A90CBBAA94C	2008-10-13 11:15:07.263

Query executed successfully. IN-JLB7043 (14.0 RTM) NAGARRO\anuraglodhi (54) adventure-works 00:00:00 701 rows

--Using CTE

with ActiveCustomers as

(select CustomerID, SalesOrderID from Sales.SalesOrderHeader)

select *

from Sales.Customer C LEFT JOIN ActiveCustomers A on C.CustomerID = A.CustomerID

where A.SalesOrderID IS NULL

Exercise2.sql - IN-RO\anuraglodhi (54) * X

```
/*
Exercise 2: Write separate queries using a join, a subquery, a CTE, and then an EXISTS to list all AdventureWorks customers
an order.
*/

--Using CTE
with ActiveCustomers as
( select CustomerID, SalesOrderID from Sales.SalesOrderHeader )
select *
from Sales.Customer C LEFT JOIN ActiveCustomers A on C.CustomerID = A.CustomerID
where A.SalesOrderID IS NULL
```

100 %

	CustomerID	PersonID	StoreID	TerritoryID	AccountNumber	rowguid	ModifiedDate	CustomerID	SalesOrderID
1	1	NULL	934	1	AW00000001	3F5AE95E-B87D-4AED-95B4-C3797AFCB74F	2008-10-13 11:15:07.263	NULL	NULL
2	2	NULL	1028	1	AW00000002	E552F857-A9AF-4A7D-A645-C429D6E02491	2008-10-13 11:15:07.263	NULL	NULL
3	3	NULL	642	4	AW00000003	130774B1-DB21-4EF3-98C8-C104BCD6ED6D	2008-10-13 11:15:07.263	NULL	NULL
4	4	NULL	932	4	AW00000004	FF862851-1DAA-4044-BE7C-3E85583C054D	2008-10-13 11:15:07.263	NULL	NULL
5	5	NULL	1026	4	AW00000005	83905BDC-6F5E-4F71-B162-C98DA069F38A	2008-10-13 11:15:07.263	NULL	NULL
6	6	NULL	644	4	AW00000006	1A92DF88-BFA2-467D-BD54-FCB9E647FDD7	2008-10-13 11:15:07.263	NULL	NULL
7	7	NULL	930	1	AW00000007	03E9273E-B193-448E-9823-FE0C44AED78	2008-10-13 11:15:07.263	NULL	NULL
8	8	NULL	1024	5	AW00000008	801368B1-4323-4BFA-8BEA-5B5B1E4BD4A0	2008-10-13 11:15:07.263	NULL	NULL
9	9	NULL	620	5	AW00000009	B900BB7F-23C3-481D-80DA-C49A5BD6F772	2008-10-13 11:15:07.263	NULL	NULL
10	10	NULL	928	6	AW00000010	CDB6698D-2FF1-4FBA-8F22-60AD1D11DABD	2008-10-13 11:15:07.263	NULL	NULL
11	11	NULL	1022	6	AW00000011	750F3495-59C4-48A0-80E1-E37EC60E77D9	2008-10-13 11:15:07.263	NULL	NULL

Query executed successfully. IN-JLB7043 (14.0 RTM) NAGARRO\anuraglodhi (54) adventure-works 00:00:00 701 rows

100 %

	CustomerID	PersonID	StoreID	TerritoryID	AccountNumber	rowguid	ModifiedDate	CustomerID	SalesOrderID
43	43	NULL	1290	1	AW00000043	9E449D3E-5D79-4F65-A4F1-10DD3B0E0766	2008-10-13 11:15:07.263	NULL	NULL
44	44	NULL	1000	5	AW00000044	FB4B073C-6B38-4233-83FE-4236558F4754	2008-10-13 11:15:07.263	NULL	NULL
45	45	NULL	1350	5	AW00000045	B50043ED-C66B-4130-BEBC-07D413043991	2008-10-13 11:15:07.263	NULL	NULL
46	46	NULL	1288	6	AW00000046	21849ECF-88C2-4574-89D5-397B84DF1D0F	2008-10-13 11:15:07.263	NULL	NULL
47	47	NULL	998	6	AW00000047	0D9ABE85-D952-432D-831A-8BE87F4E49D0	2008-10-13 11:15:07.263	NULL	NULL
48	48	NULL	1352	6	AW00000048	E656589A-198F-454F-B02F-9CE324457BDF	2008-10-13 11:15:07.263	NULL	NULL
49	49	NULL	1286	7	AW00000049	F3DFA401-85C6-4118-B5C5-6554310A1192	2008-10-13 11:15:07.263	NULL	NULL
50	50	NULL	996	8	AW00000050	0A3E846A-2DCC-4B6E-8AB3-968B5AB859F4	2008-10-13 11:15:07.263	NULL	NULL
51	51	NULL	1354	9	AW00000051	E4C69E3E-BE4B-4DCD-B2F0-1237B391BC44	2008-10-13 11:15:07.263	NULL	NULL
52	52	NULL	1284	10	AW00000052	8FB34B30-B19D-4AEC-B02E-F1BE942800E5	2008-10-13 11:15:07.263	NULL	NULL
53	53	NULL	994	2	AW00000053	81D3B740-DCF1-4F23-A5E3-D81353280016	2008-10-13 11:15:07.263	NULL	NULL

Query executed successfully. IN-JLB7043 (14.0 RTM) NAGARRO\anuraglodhi (54) adventure-works 00:00:00 701 rows

100 %

	CustomerID	PersonID	StoreID	TerritoryID	AccountNumber	rowguid	ModifiedDate	CustomerID	SalesOrderID
691	691	NULL	1036	2	AW00000691	6C7F3484-142C-425A-A0F9-BA2201079A5C	2008-10-13 11:15:07.263	NULL	NULL
692	692	NULL	802	1	AW00000692	9EE96279-78D5-49B7-AC4A-1C43CFB80249	2008-10-13 11:15:07.263	NULL	NULL
693	693	NULL	838	1	AW00000693	3B38D4CB-9573-4686-A202-9179DBEFC7B8	2008-10-13 11:15:07.263	NULL	NULL
694	694	NULL	1034	3	AW00000694	D3E874DC-A10C-4055-B943-9DBD9CFC8C89	2008-10-13 11:15:07.263	NULL	NULL
695	695	NULL	638	3	AW00000695	77A62D9C-4ED6-4266-AE35-40CC330ACC5E	2008-10-13 11:15:07.263	NULL	NULL
696	696	NULL	840	1	AW00000696	A0140DD4-4D10-4091-9D89-95873DAE98B7	2008-10-13 11:15:07.263	NULL	NULL
697	697	NULL	1032	1	AW00000697	B30CE5B4-BBFA-4A57-B5C2-EED1EF13E0BE	2008-10-13 11:15:07.263	NULL	NULL
698	698	NULL	640	1	AW00000698	6BC4FF5A-6696-4C2A-88F9-08D1DBA91B74	2008-10-13 11:15:07.263	NULL	NULL
699	699	NULL	842	5	AW00000699	38A528AA-0402-4ED9-ABBB-983BC8B37D40	2008-10-13 11:15:07.263	NULL	NULL
700	700	NULL	1030	5	AW00000700	540FB57F-F81A-4794-9E9A-C071C4F0BC18	2008-10-13 11:15:07.263	NULL	NULL
701	701	NULL	844	6	AW00000701	61AE9625-8BD8-48B7-B171-8A90CBBA494C	2008-10-13 11:15:07.263	NULL	NULL

Query executed successfully. IN-JLB7043 (14.0 RTM) NAGARRO\anuraglodhi (54) adventure-works 00:00:00 701 rows

--Using Exist

select *

from Sales.Customer as C

where not exists

(select * from Sales.SalesOrderHeader as S

where C.customerid = S.customerid)

Exercise2.sql - IN-RO\anuraglodhi (54)*

```
/*
Exercise 2: Write separate queries using a join, a subquery, a CTE, and then an EXISTS to list all AdventureWorks customers
an order.
*/

--Using Exist
select *
from Sales.Customer as C
where not exists
(select * from Sales.SalesOrderHeader as S
where C.customerid = S.customerid)
```

100 %

	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-FCB9E647FD07	2008-10-13 11:15:07.263
7	7	NULL	930	1	AW00000007	03E9273E-B193-448E-9823-FE0C4AAED78	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	750F3495-59C4-48AD-80E1-E37EC60E77D9	2008-10-13 11:15:07.263

Query executed successfully. IN-JLB7043 (14.0 RTM) NAGARRO\anuraglodhi (54) adventure-works 00:00:00 701 rows

100 %

	CustomerID	PersonID	StoreID	TerritoryID	AccountNumber	rowguid	ModifiedDate
34	34	NULL	940	10	AW00000034	9EDDA794-7862-4FF4-B8E2-528847CAB2BD	2008-10-13 11:15:07.263
35	35	NULL	1006	2	AW00000035	8D74B6B9-6C96-4A45-BEC4-0E9736D191BE	2008-10-13 11:15:07.263
36	36	NULL	1344	2	AW00000036	53C0491D-8AE8-4B16-A830-2078DDF46AD	2008-10-13 11:15:07.263
37	37	NULL	938	1	AW00000037	C6EBB29A-CC67-459C-90E3-339E0F912906	2008-10-13 11:15:07.263
38	38	NULL	1004	1	AW00000038	E5EDA3F3-4EF1-4806-BD36-E61F3CB2E044	2008-10-13 11:15:07.263
39	39	NULL	1346	3	AW00000039	6808B1ED-3C9A-401D-B284-9AC31166D9EB	2008-10-13 11:15:07.263
40	40	NULL	936	4	AW00000040	AA5E28F6-16C8-4D80-894E-17531F2CF972	2008-10-13 11:15:07.263
41	41	NULL	1002	4	AW00000041	E1BA20ED-DA19-4392-A8A9-C2E670438FFB	2008-10-13 11:15:07.263
42	42	NULL	1348	4	AW00000042	64ACD300-337D-4D39-A2C4-FD5972611934	2008-10-13 11:15:07.263
43	43	NULL	1290	1	AW00000043	9E449D3E-5D79-4F65-AAF1-10D03B0E0766	2008-10-13 11:15:07.263
44	44	NULL	1000	5	AW00000044	FB4B073C-6B38-4233-83FE-4236558F4754	2008-10-13 11:15:07.263

Query executed successfully. IN-JLB7043 (14.0 RTM) NAGARRO\anuraglodhi (54) adventure-works 00:00:00 701 rows

100 %

	CustomerID	PersonID	StoreID	TerritoryID	AccountNumber	rowguid	ModifiedDate
691	691	NULL	1036	2	AW00000691	6C7F3484-142C-425A-A0F9-BA2201079A5C	2008-10-13 11:15:07.263
692	692	NULL	802	1	AW00000692	9EE96279-78D5-49B7-AC4A-1C43CFB80249	2008-10-13 11:15:07.263
693	693	NULL	838	1	AW00000693	3B38D4CB-9573-4686-A202-9179DBEFC7B8	2008-10-13 11:15:07.263
694	694	NULL	1034	3	AW00000694	D3E874DC-A10C-4055-B943-90BD5CFE8C89	2008-10-13 11:15:07.263
695	695	NULL	638	3	AW00000695	77A62D9C-4ED6-4266-AE35-40CC330ACCSE	2008-10-13 11:15:07.263
696	696	NULL	840	1	AW00000696	A0140DD4-4D10-4091-9D89-95873DAE9BB7	2008-10-13 11:15:07.263
697	697	NULL	1032	1	AW00000697	B30CE5B4-BBFA-4A57-B5C2-EED1EF13E0BE	2008-10-13 11:15:07.263
698	698	NULL	640	1	AW00000698	6BC4FF5A-0696-4C2A-88F9-98D1DBA91B74	2008-10-13 11:15:07.263
699	699	NULL	842	5	AW00000699	38A528AA-0402-4ED9-ABBB-983BCEB37D40	2008-10-13 11:15:07.263
700	700	NULL	1030	5	AW00000700	540FB57F-F81A-4794-8E9A-C071C4F0BC18	2008-10-13 11:15:07.263
701	701	NULL	844	6	AW00000701	61AE9625-8BD8-48B7-B171-8A90CBA494C	2008-10-13 11:15:07.263

Query executed successfully. IN-JLB7043 (14.0 RTM) NAGARRO\anuraglodhi (54) adventure-works 00:00:00 701 rows

/*

Exercise 3: Show the most recent five orders that were purchased from account numbers that have spent more than \$70,000 with

AdventureWorks.

*/

WITH Accountorders AS (SELECT AccountNumber, SUM(TotalDue) AS TotalSum , OrderDate FROM Sales.SalesOrderHeader AS soh GROUP BY AccountNumber, OrderDate)

SELECT TOP 5 *

FROM Accountorders

WHERE TotalSum > 70000

Order by OrderDate DESC;

The screenshot shows a SQL Server Enterprise Manager window titled 'Exercise3.sql - IN-...RO\anuraglodhi (57)'. The query editor contains the following SQL code:

```
/*
Exercise 3: Show the most recent five orders that were purchased from account numbers that have spent more than $70,000 with
AdventureWorks.
*/

WITH Accountorders AS ( SELECT AccountNumber, SUM(TotalDue) AS TotalSum , OrderDate FROM Sales.SalesOrderHeader AS soh GROUP BY AccountNumber, OrderDate )
SELECT TOP 5 *
FROM Accountorders
WHERE TotalSum > 70000
Order by OrderDate DESC;
```

Below the query editor, the 'Results' tab is selected, displaying a table with 5 rows and 3 columns: AccountNumber, TotalSum, and OrderDate. The data is as follows:

	AccountNumber	TotalSum	OrderDate
1	10-4020-000072	96332.5002	2008-06-01 00:00:00.000
2	10-4020-000539	79038.3895	2008-06-01 00:00:00.000
3	10-4020-000154	101382.7138	2008-06-01 00:00:00.000
4	10-4020-000010	93791.205	2008-06-01 00:00:00.000
5	10-4020-000254	74039.529	2008-06-01 00:00:00.000

The status bar at the bottom indicates 'Query executed successfully.' and provides additional details: 'IN-JLB7043 (14.0 RTM) NAGARRO\anuraglodhi (57) adventure-works 00:00:00 5 rows'.

/*

Exercise 4: Create a function that takes as inputs a SalesOrderID, a Currency Code, and a date, and returns a table of all the SalesOrderDetail rows

for that Sales Order including Quantity, ProductID, UnitPrice, and the unit price converted to the target currency based on the end of

day rate for the date provided. Exchange rates can be found in the Sales.CurrencyRate table. (Use AdventureWorks)

*/

CREATE FUNCTION OrderDetails(@SalesOrderId int, @CurrencyCode nvarchar(10), @Date date)

RETURNS TABLE

AS

RETURN

(SELECT OrderQty, ProductID, UnitPrice *

(SELECT EndOfDayRate

FROM Sales.CurrencyRate

WHERE (ToCurrencyCode = @CurrencyCode) AND (ModifiedDate = @Date)) AS UnitPrice

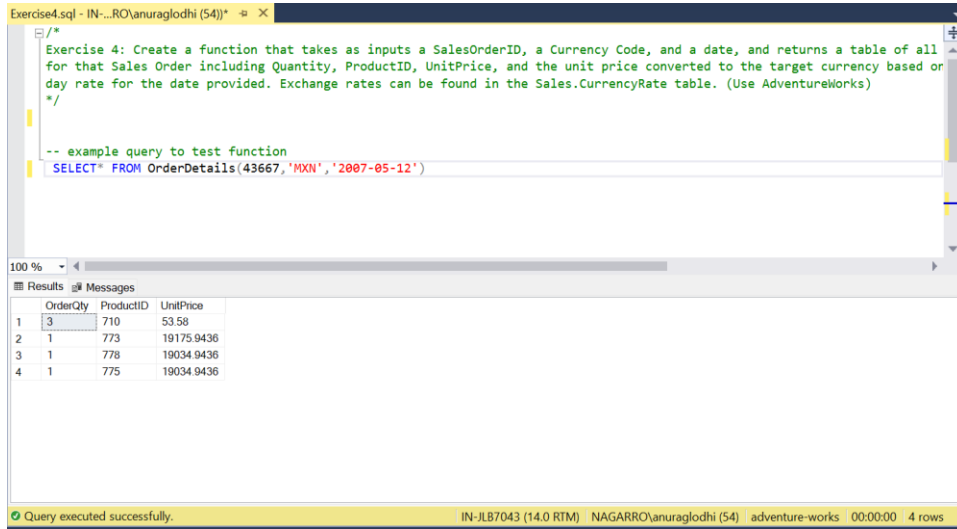
FROM Sales.SalesOrderDetail

WHERE (SalesOrderID = @SalesOrderId));

Go

-- example query to test function

```
SELECT* FROM OrderDetails(43667,'MXN','2007-05-12')
```



The screenshot shows a SQL Server Enterprise Manager window with a query executed successfully. The query is a SELECT statement that tests a function by passing a SalesOrderID, a Currency Code, and a date. The results are displayed in a table with four columns: OrderQty, ProductID, and UnitPrice. The table contains four rows of data.

```
Exercise4.sql - IN-...RO\anuraglodhi (54)*  
/*  
Exercise 4: Create a function that takes as inputs a SalesOrderID, a Currency Code, and a date, and returns a table of all  
for that Sales Order including Quantity, ProductID, UnitPrice, and the unit price converted to the target currency based on  
day rate for the date provided. Exchange rates can be found in the Sales.CurrencyRate table. (Use AdventureWorks)  
*/  
  
-- example query to test function  
SELECT* FROM OrderDetails(43667,'MXN','2007-05-12')
```

	OrderQty	ProductID	UnitPrice
1	3	710	53.58
2	1	773	19175.9436
3	1	778	19034.9436
4	1	775	19034.9436

Query executed successfully. IN-JLB7043 (14.0 RTM) NAGARRO\anuraglodhi (54) adventure-works 00:00:00 4 rows

/*

Exercise 5: Write a Procedure supplying name information from the Person.Person table and accepting a filter for the first name. Alter the above

Store Procedure to supply Default Values if user does not enter any value. (Use AdventureWorks)

*/

-- if not provide any input it return the information according to default value ken

create procedure getInfoByFirstName

@name varchar(50) = 'ken'

as

select *

from Person.Person

where FirstName=@Name;

-- example query to test with default value and ruth as first name

exec dbo.getInfoByFirstName @Name = default;

SQLQuery1.sql - IN...O\anuraglodhi (57)* X Exercise5.sql - IN...RO\anuraglodhi (51)*

```
exec dbo.getInfoByFirstName @Name = default;
```

100 %

Results Messages

	BusinessEntityID	PersonType	NameStyle	Title	FirstName	MiddleName	LastName	Suffix	EmailPromotion	AdditionalContactInfo	Demographics
1	2300	GC	0	NULL	Ken	NULL	Kwok	NULL	0	NULL	<IndividualSurvey xmlns="http://schemas.micro
2	2140	GC	0	NULL	Ken	NULL	Meyer	NULL	1	NULL	<IndividualSurvey xmlns="http://schemas.micro
3	1525	VC	0	Mr.	Ken	NULL	Myer	NULL	0	NULL	<IndividualSurvey xmlns="http://schemas.micro
4	203	EM	0	NULL	Ken	L	Myer	NULL	1	NULL	<IndividualSurvey xmlns="http://schemas.micro
5	1726	IN	0	Mr.	Ken	NULL	Sánchez	NULL	0	NULL	<IndividualSurvey xmlns="http://schemas.micro
6	1	EM	0	NULL	Ken	J	Sánchez	NULL	0	NULL	<IndividualSurvey xmlns="http://schemas.micro

Query executed successfully. IN-JLB7043 (14.0 RTM) NAGARRO\anuraglodhi (57) adventure-works 00:00:00 6 rows

exec dbo.getInfoByFirstName @Name = 'ruth';

SQLQuery1.sql - IN...O\anuraglodhi (57)* X Exercise5.sql - IN...RO\anuraglodhi (51)*

```
exec dbo.getInfoByFirstName @Name = 'ruth';
```

100 %

Results Messages

	BusinessEntityID	PersonType	NameStyle	Title	FirstName	MiddleName	LastName	Suffix	EmailPromotion	AdditionalContactInfo	Demographics
1	3267	IN	0	NULL	Ruth	S	Arun	NULL	0	NULL	<IndividualSurvey xmlns="http://schemas.n
2	3259	IN	0	NULL	Ruth	NULL	Chandra	NULL	0	NULL	<IndividualSurvey xmlns="http://schemas.n
3	693	SC	0	Ms.	Ruth	A.	Choin	NULL	0	NULL	<IndividualSurvey xmlns="http://schemas.n
4	2239	GC	0	NULL	Ruth	NULL	Ellerbrock	NULL	0	NULL	<IndividualSurvey xmlns="http://schemas.n
5	48	EM	0	NULL	Ruth	Ann	Ellerbrock	NULL	0	NULL	<IndividualSurvey xmlns="http://schemas.n
6	2160	GC	0	NULL	Ruth	Ann	Ellerbrock	NULL	0	NULL	<IndividualSurvey xmlns="http://schemas.n
7	3294	IN	0	NULL	Ruth	NULL	Fernandez	NULL	2	NULL	<IndividualSurvey xmlns="http://schemas.n
8	3289	IN	0	NULL	Ruth	NULL	Garcia	NULL	0	NULL	<IndividualSurvey xmlns="http://schemas.n
9	3297	IN	0	NULL	Ruth	NULL	Gonzalez	NULL	1	NULL	<IndividualSurvey xmlns="http://schemas.n
10	3295	IN	0	NULL	Ruth	D	Lopez	NULL	2	NULL	<IndividualSurvey xmlns="http://schemas.n

Query executed successfully. IN-JLB7043 (14.0 RTM) NAGARRO\anuraglodhi (57) adventure-works 00:00:00 26 rows

	BusinessEntityID	PersonType	NameStyle	Title	FirstName	MiddleName	LastName	Suffix	EmailPromotion	AdditionalContactInfo	Demographics
17	3299	IN	0	NULL	Ruth	R	Rodriguez	NULL	0	NULL	<IndividualSurvey xmlns="http://schemas.n
18	3266	IN	0	NULL	Ruth	D	Sai	NULL	1	NULL	<IndividualSurvey xmlns="http://schemas.n
19	3303	IN	0	NULL	Ruth	E	Sanchez	NULL	0	NULL	<IndividualSurvey xmlns="http://schemas.n
20	3277	IN	0	NULL	Ruth	L	Schmidt	NULL	0	NULL	<IndividualSurvey xmlns="http://schemas.n
21	3270	IN	0	NULL	Ruth	C	Sini	NULL	0	NULL	<IndividualSurvey xmlns="http://schemas.n
22	1833	SC	0	Ms.	Ruth	J.	Suffin	NULL	1	NULL	<IndividualSurvey xmlns="http://schemas.n
23	3283	IN	0	NULL	Ruth	NULL	Sullivan	NULL	0	NULL	<IndividualSurvey xmlns="http://schemas.n
24	3255	IN	0	NULL	Ruth	A	Suri	NULL	2	NULL	<IndividualSurvey xmlns="http://schemas.n
25	3262	IN	0	NULL	Ruth	D	Vance	NULL	0	NULL	<IndividualSurvey xmlns="http://schemas.n
26	2015	SC	0	Ms.	Ruth	B.	Ward	NULL	0	NULL	<IndividualSurvey xmlns="http://schemas.n

/*

Exercise 6 :

Write a trigger for the Product table to ensure the list price can never be raised more than 15 Percent in a single change.

Modify the above trigger to execute its check code only if the ListPrice column is updated (Use AdventureWorks Database)

*/

Create TRIGGER Production.ListPrice

ON

Production.Product

For UPDATE

AS

IF Update(ListPrice)

BEGIN

IF EXISTS

(

SELECT 'True'

FROM inserted i JOIN deleted d ON i.ProductID = d.ProductID

WHERE i.ListPrice > (d.ListPrice * 1.15)

)

BEGIN

RAISERROR('Price increase may not be greater than 15 percent.Transaction Failed.',16,1)

ROLLBACK TRAN

END

END

-- example query to update the trigger this trigger

Before trigger we can change the value of list price to 100.

Update Production.Product

Set ListPrice = 100

where ProductID =514;

select * from Production.Product;

List Price is 100 for product id 514

SQLQuery2.sql - IN...O\anuraglodhi (58)* X Exercise6.sql - IN...RO\anuraglodhi (51)

-- example query to test this trigger

Update Production.Product

Set ListPrice = 100

where ProductID =514;

select * from Production.Product;

100 %

Results Messages

ProductID	Name	ProductNumber	MakeFlag	FinishedGoodsFlag	Color	SafetyStockLevel	ReorderPoint	StandardCost	ListPrice	Size	SizeUnitMeasureCc	
184	511	ML Road Rim	RM-R600	0	0	NULL	800	600	0.00	0.00	NULL	NULL
185	512	HL Road Rim	RM-R800	0	0	NULL	800	600	0.00	0.00	NULL	NULL
186	513	Touring Rim	RM-T801	0	0	NULL	800	600	0.00	0.00	NULL	NULL
187	514	LL Mountain Seat A...	SA-M198	1	0	NULL	500	375	98.77	100.00	NULL	NULL
188	515	ML Mountain Seat A...	SA-M237	1	0	NULL	500	375	108.99	147.14	NULL	NULL
189	516	HL Mountain Seat A...	SA-M687	1	0	NULL	500	375	145.87	196.92	NULL	NULL
190	517	LL Road Seat Asse...	SA-R127	1	0	NULL	500	375	98.77	133.34	NULL	NULL
191	518	ML Road Seat Asse...	SA-R430	1	0	NULL	500	375	108.99	147.14	NULL	NULL
192	519	HL Road Seat Asse...	SA-R522	1	0	NULL	500	375	145.87	196.92	NULL	NULL
193	520	LL Touring Seat Ass...	SA-T467	1	0	NULL	500	375	98.77	133.34	NULL	NULL

Query executed successfully.

IN-JLB7043 (14.0 RTM) NAGARRO\anuraglodhi (58) adventure-works 00:00:00 504 rows

After executing trigger we can't update the list price from more than 115.

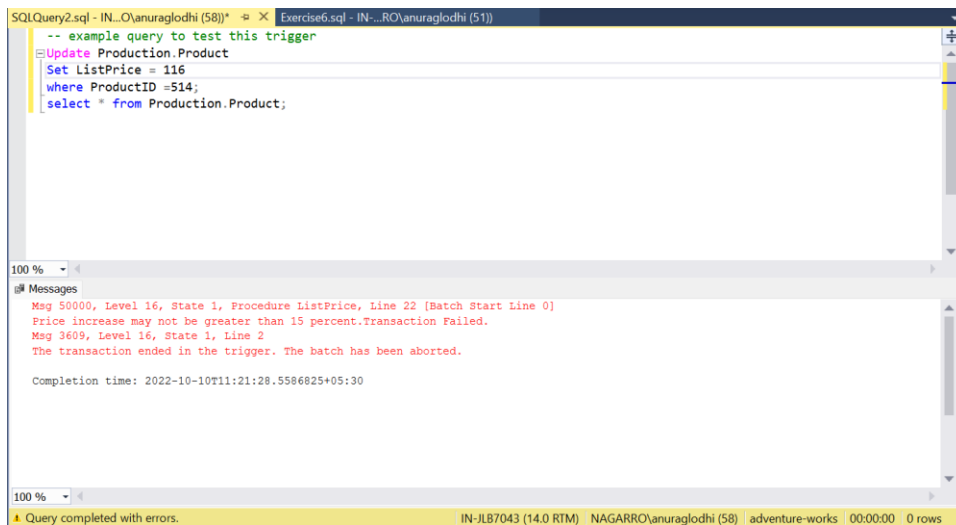
Update Production.Product

Set ListPrice = 116

where ProductID =514;

select * from Production.Product;

Now increasing it by more than 15 percent i.e. 116 we can see the trigger error



```
-- example query to test this trigger
Update Production.Product
Set ListPrice = 116
where ProductID =514;
select * from Production.Product;
```

100 %

Messages

Msg 50000, Level 16, State 1, Procedure ListPrice, Line 22 [Batch Start Line 0]
Price increase may not be greater than 15 percent.Transaction Failed.
Msg 3609, Level 16, State 1, Line 2
The transaction ended in the trigger. The batch has been aborted.

Completion time: 2022-10-10T11:21:28.5586825+05:30

100 %

Query completed with errors. IN-JLB7043 (14.0 RTM) NAGARRO\anuraglodhi (58) adventure-works 00:00:00 0 rows