Assignment:- 2

RETRIEVE DATA USING JOIN WITH WHERE CLAUSE

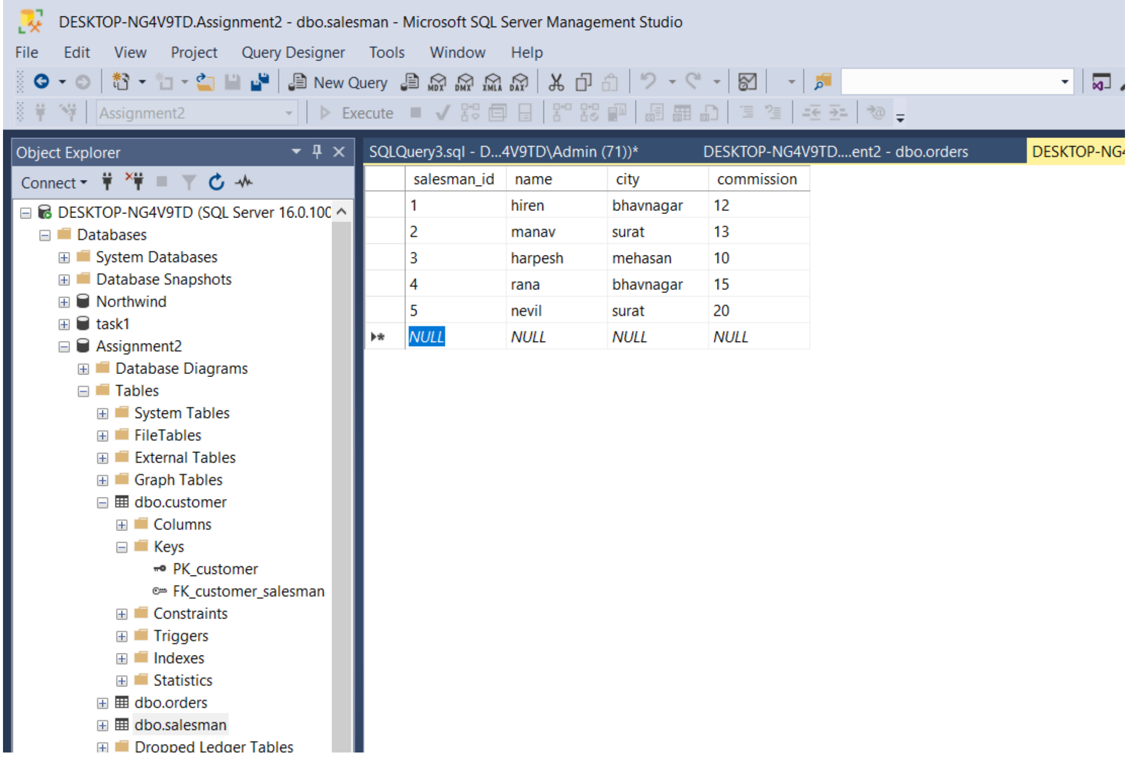
Sample table1: salesman

-salesman_id

-name

-city

-commission



salesman_id	name	city	commission
1	hiren	bhavnagar	12
2	manav	surat	13
3	harpesh	mehasan	10
4	rana	bhavnagar	15
5	nevil	surat	20
NULL	NULL	NULL	NULL

Assignment:- 2

RETRIEVE DATA USING JOIN WITH WHERE CLAUSE

Sample table2: customer

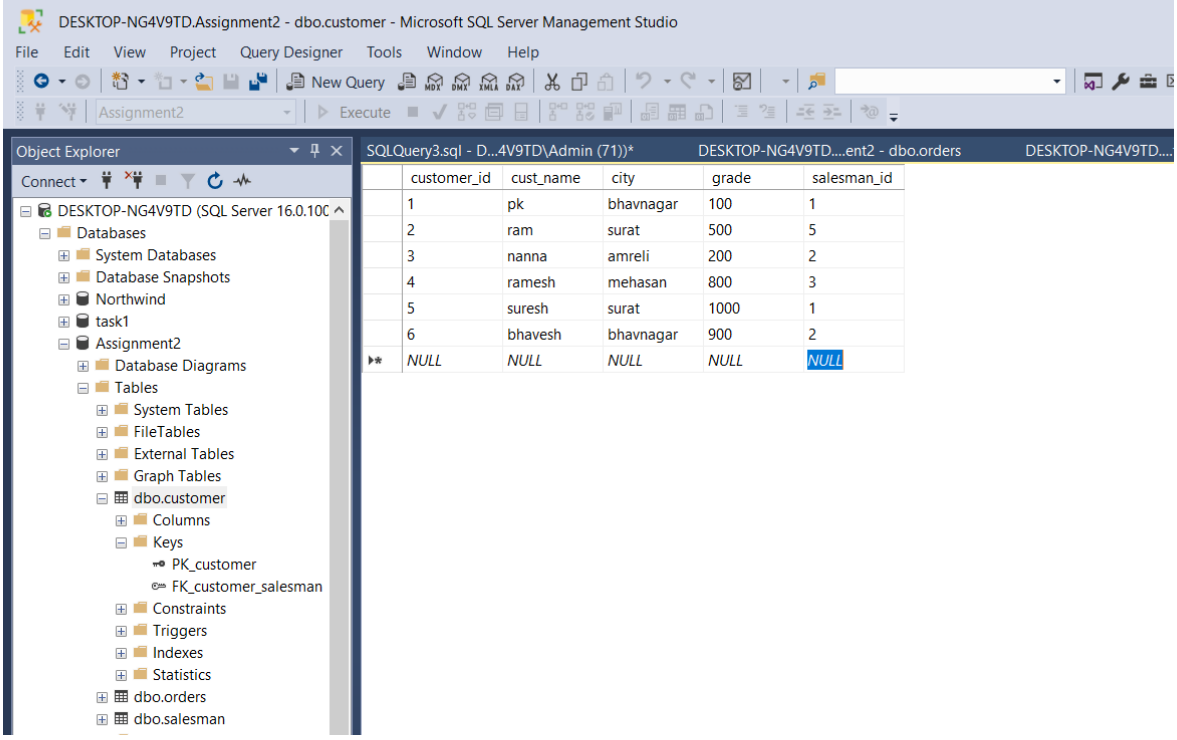
-customer_id

-cust_name

-city

-grade

-salesman_id



customer_id	cust_name	city	grade	salesman_id
1	pk	bhavnagar	100	1
2	ram	surat	500	5
3	nanna	amreli	200	2
4	ramesh	mehasan	800	3
5	suresh	surat	1000	1
6	bhavesh	bhavnagar	900	2
NULL	NULL	NULL	NULL	NULL

Assignment:- 2

RETRIEVE DATA USING JOIN WITH WHERE CLAUSE

Sample table3: orders

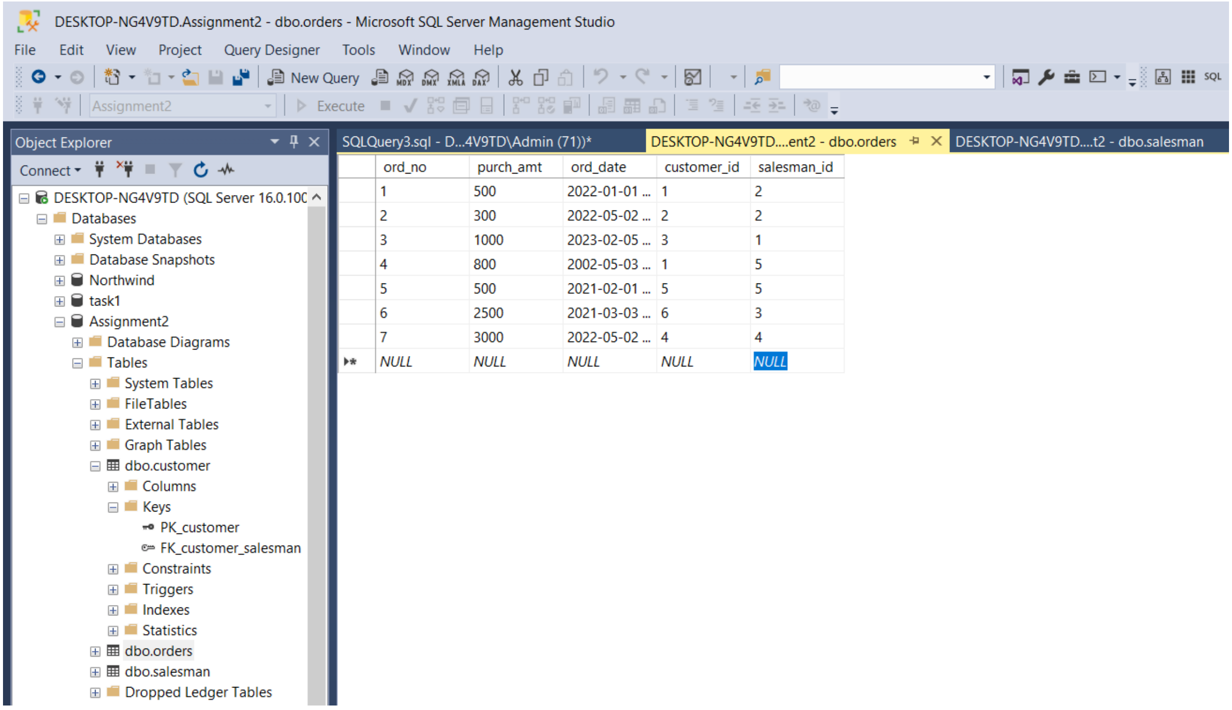
-ord_no

-purch_amt

-ord_date

-customer_id

-salesman_id



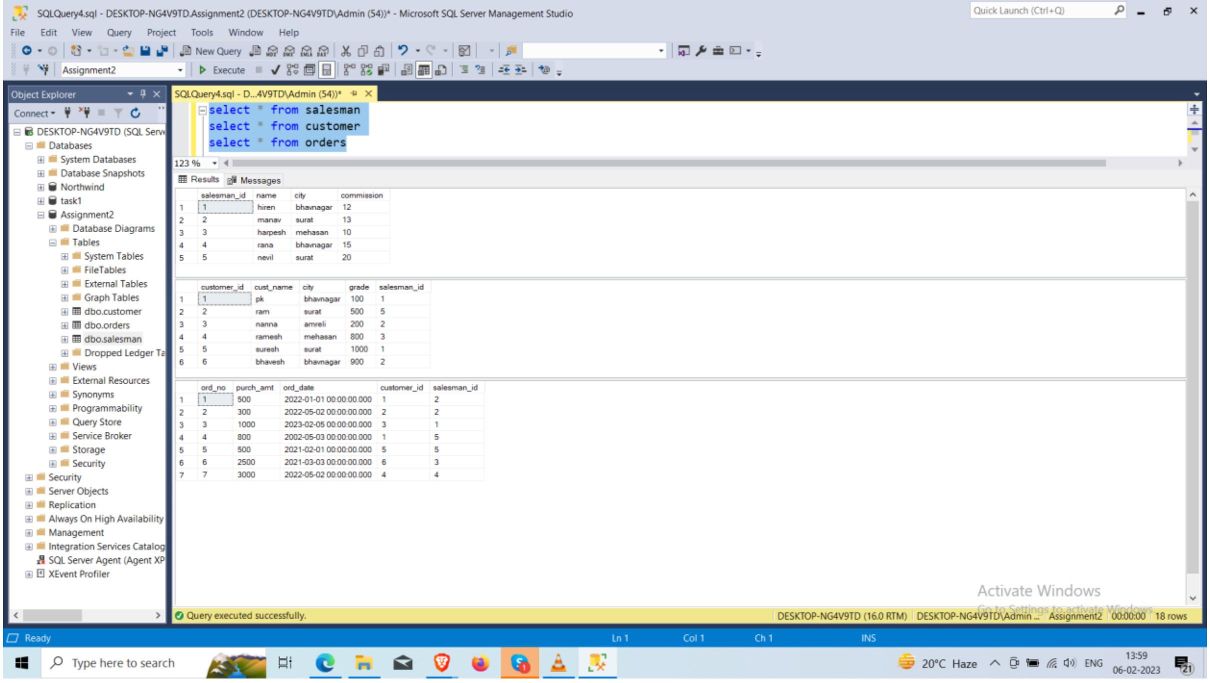
	ord_no	purch_amt	ord_date	customer_id	salesman_id
	1	500	2022-01-01 ...	1	2
	2	300	2022-05-02 ...	2	2
	3	1000	2023-02-05 ...	3	1
	4	800	2002-05-03 ...	1	5
	5	500	2021-02-01 ...	5	5
	6	2500	2021-03-03 ...	6	3
	7	3000	2022-05-02 ...	4	4
▸*	NULL	NULL	NULL	NULL	NULL

Assignment:- 2

RETRIEVE DATA USING JOIN WITH WHERE CLAUSE

All tables display whit sql query

```
select * from salesman
select * from customer
select * from orders
```



SQLQuery4.sql - DESKTOP-NG4V9TD.Assignment2 (DESKTOP-NG4V9TD\Admin (54))* - Microsoft SQL Server Management Studio

```
select * from salesman
select * from customer
select * from orders
```

	salesman_id	name	city	commission
1	1	hiren	bhavnagar	12
2	2	manav	surat	13
3	3	harpesh	mehasan	10
4	4	rana	bhavnagar	15
5	5	nevil	surat	20

	customer_id	cust_name	city	grade	salesman_id
1	1	pk	bhavnagar	100	1
2	2	ram	surat	500	5
3	3	nanna	amreli	200	2
4	4	ramesh	mehasan	800	3
5	5	suresh	surat	1000	1
6	6	bhavesh	bhavnagar	900	2

	ord_no	purch_amt	ord_date	customer_id	salesman_id
1	1	500	2022-01-01 00:00:00.000	1	2
2	2	300	2022-05-02 00:00:00.000	2	2
3	3	1000	2023-02-05 00:00:00.000	3	1
4	4	800	2002-05-03 00:00:00.000	1	5
5	5	500	2021-02-01 00:00:00.000	5	5
6	6	2500	2021-03-03 00:00:00.000	6	3
7	7	3000	2022-05-02 00:00:00.000	4	4

Query executed successfully.

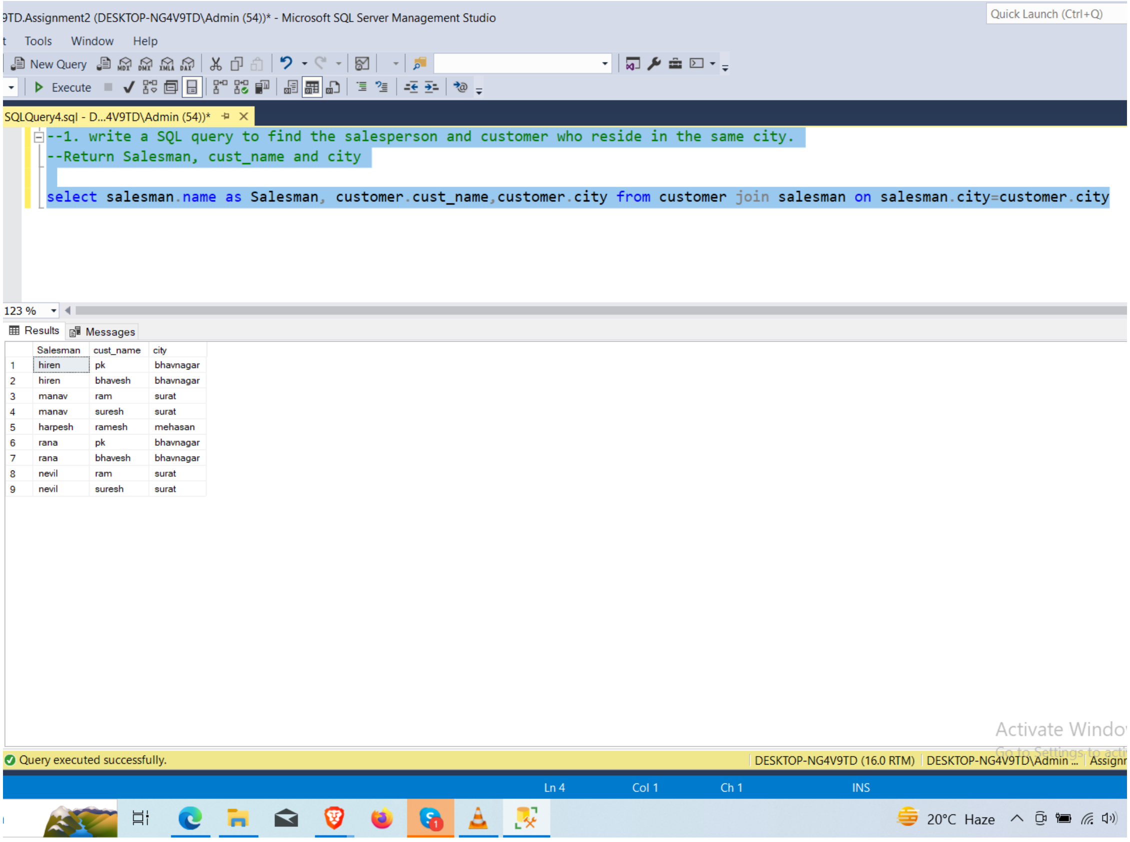
DESKTOP-NG4V9TD (16.0 RTM) | DESKTOP-NG4V9TD\Admin ... | Assignment2 | 00:00:00 | 18 rows

Assignment:- 2

RETRIEVE DATA USING JOIN WITH WHERE CLAUSE

1. **write a SQL query to find the salesperson and customer who reside in the same city.Return Salesman, cust_name and city.**

```
select  salesman.name as Salesman,
customer.cust_name,customer.city
from customer join salesman
on salesman.city=customer.city
```



9TD.Assignment2 (DESKTOP-NG4V9TD\Admin (54))* - Microsoft SQL Server Management Studio
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Query executed successfully.
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```
--1. write a SQL query to find the salesperson and customer who reside in the same city.
--Return Salesman, cust_name and city

select salesman.name as Salesman, customer.cust_name,customer.city from customer join salesman on salesman.city=customer.city
```

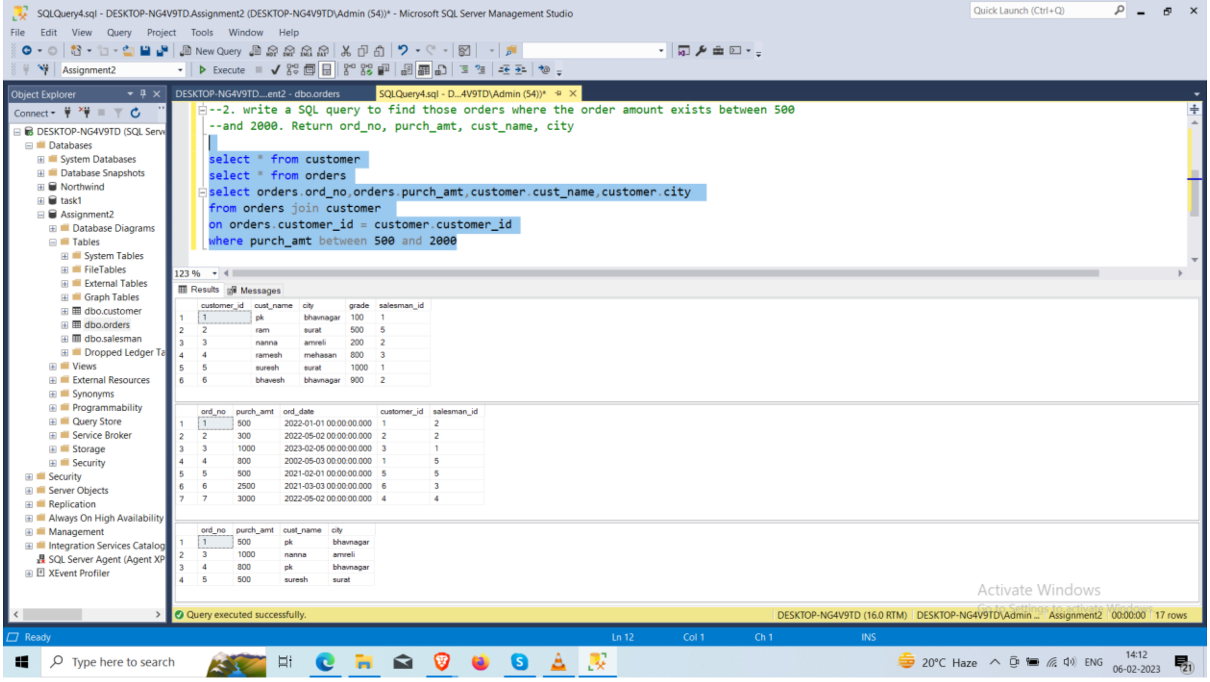
	Salesman	cust_name	city
1	hiren	pk	bhavnagar
2	hiren	bhavesh	bhavnagar
3	manav	ram	surat
4	manav	suresh	surat
5	harpesh	ramesh	mehasan
6	rana	pk	bhavnagar
7	rana	bhavesh	bhavnagar
8	nevil	ram	surat
9	nevil	suresh	surat

Assignment:- 2

RETRIEVE DATA USING JOIN WITH WHERE CLAUSE

2. write a SQL query to find those orders where the order amount exists between 500 and 2000. Return ord_no, purch_amt, cust_name, city.

```
select * from customer
select * from orders
select
orders.ord_no,orders.purch_amt,customer.cust_name,customer.city
from orders join customer
on orders.customer_id = customer.customer_id
where purch_amt between 500 and 2000
```



SQLQuery4.sql - DESKTOP-NG4V9TD.Assignment2 (DESKTOP-NG4V9TD\Admin (54))* - Microsoft SQL Server Management Studio
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Assignment2
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SQLQuery4.sql - D...4V9TD\Admin (54))*

```
--2. write a SQL query to find those orders where the order amount exists between 500
--and 2000. Return ord_no, purch_amt, cust_name, city

select * from customer
select * from orders
select orders.ord_no,orders.purch_amt,customer.cust_name,customer.city
from orders join customer
on orders.customer_id = customer.customer_id
where purch_amt between 500 and 2000
```

	customer_id	cust_name	city	grade	salesman_id
1	1	pk	bhavnagar	100	1
2	2	ram	surat	500	5
3	3	nanna	amreli	200	2
4	4	ramesh	mehasan	800	3
5	5	suresh	surat	1000	1
6	6	bhavesh	bhavnagar	900	2

	ord_no	purch_amt	ord_date	customer_id	salesman_id
1	1	500	2022-01-01 00:00:00.000	1	2
2	2	300	2022-05-02 00:00:00.000	2	2
3	3	1000	2023-02-05 00:00:00.000	3	1
4	4	800	2002-05-03 00:00:00.000	1	5
5	5	500	2021-02-01 00:00:00.000	5	5
6	6	2500	2021-03-03 00:00:00.000	6	3
7	7	3000	2022-05-02 00:00:00.000	4	4

	ord_no	purch_amt	cust_name	city
1	1	500	pk	bhavnagar
2	3	1000	nanna	amreli
3	4	800	pk	bhavnagar
4	5	500	suresh	surat

Query executed successfully.

DESKTOP-NG4V9TD (16.0 RTM) DESKTOP-NG4V9TD\Admin ... Assignment2 00:00:00 17 rows
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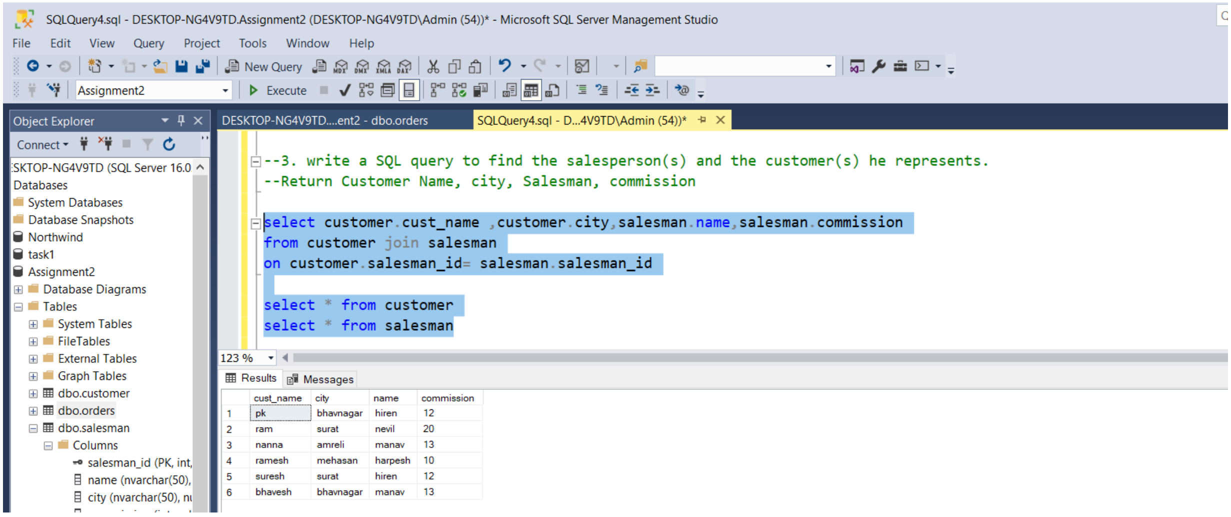
Assignment:- 2

RETRIEVE DATA USING JOIN WITH WHERE CLAUSE

3. write a SQL query to find the salesperson(s) and the customer(s) he represents.Return Customer Name, city, Salesman, commission.

```
select customer.cust_name
,customer.city,salesman.name,salesman.commission
from customer join salesman
on customer.salesman_id= salesman.salesman_id
```



```
--3. write a SQL query to find the salesperson(s) and the customer(s) he represents.
--Return Customer Name, city, Salesman, commission

select customer.cust_name ,customer.city,salesman.name,salesman.commission
from customer join salesman
on customer.salesman_id= salesman.salesman_id

select * from customer
select * from salesman
```

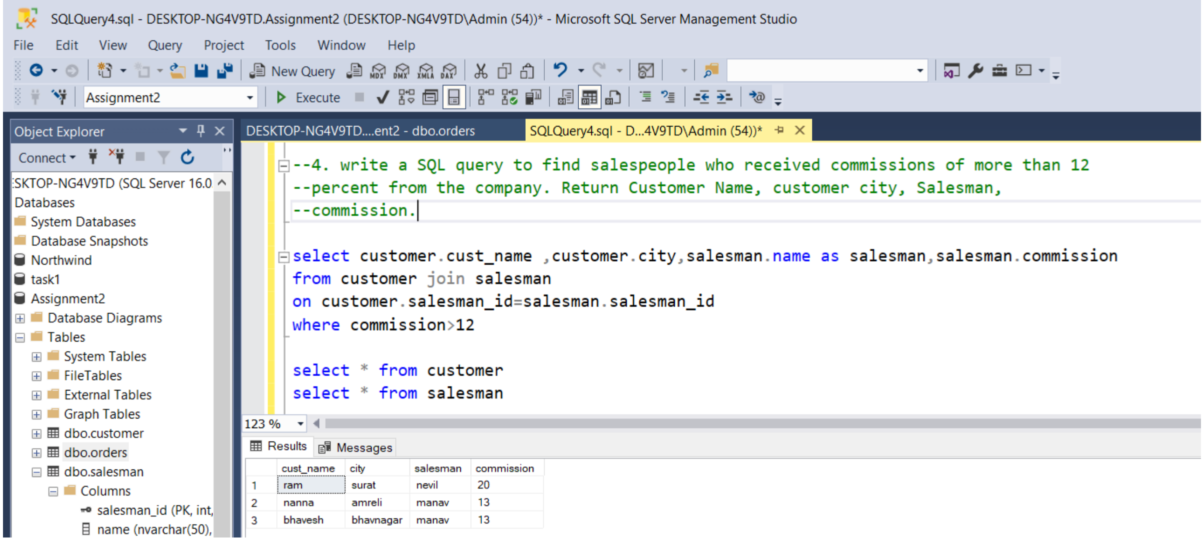
	cust_name	city	name	commission
1	pk	bhavnagar	hiren	12
2	ram	surat	nevil	20
3	nanna	amreli	manav	13
4	ramesh	mehasan	harpesh	10
5	suresh	surat	hiren	12
6	bhavesh	bhavnagar	manav	13

Assignment:- 2

RETRIEVE DATA USING JOIN WITH WHERE CLAUSE

4. write a SQL query to find salespeople who received commissions of more than 12 percent from the company. Return Customer Name, customer city, Salesman,commission.

```
select customer.cust_name ,customer.city,salesman.name as salesman,salesman.commission
from customer join salesman
on customer.salesman_id=salesman.salesman_id
where commission>12
```



```
--4. write a SQL query to find salespeople who received commissions of more than 12
--percent from the company. Return Customer Name, customer city, Salesman,
--commission.

select customer.cust_name ,customer.city,salesman.name as salesman,salesman.commission
from customer join salesman
on customer.salesman_id=salesman.salesman_id
where commission>12

select * from customer
select * from salesman
```

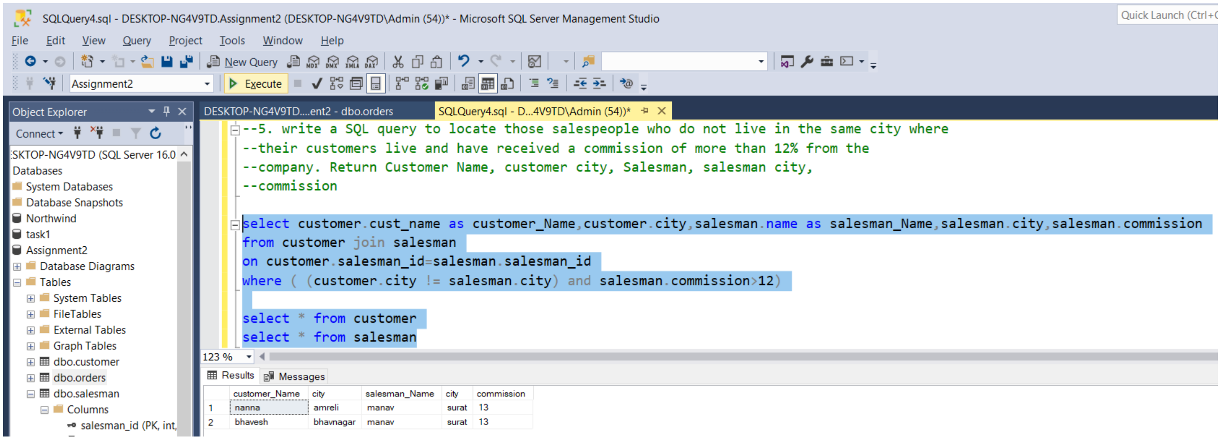
	cust_name	city	salesman	commission
1	ram	surat	nevil	20
2	nanna	amreli	manav	13
3	bhavesh	bhavnagar	manav	13

Assignment:- 2

RETRIEVE DATA USING JOIN WITH WHERE CLAUSE

5. write a SQL query to locate those salespeople who do not live in the same city where their customers live and have received a commission of more than 12% from the company. Return Customer Name, customer city, Salesman, salesman city, commission

```
select customer.cust_name as
customer_Name,customer.city,salesman.name as
salesman_Name,salesman.city,salesman.commission
from customer join salesman
on customer.salesman_id=salesman.salesman_id
where ( (customer.city != salesman.city) and
salesman.commission>12)
```



```
--5. write a SQL query to locate those salespeople who do not live in the same city where
--their customers live and have received a commission of more than 12% from the
--company. Return Customer Name, customer city, Salesman, salesman city,
--commission

select customer.cust_name as customer_Name,customer.city,salesman.name as salesman_Name,salesman.city,salesman.commission
from customer join salesman
on customer.salesman_id=salesman.salesman_id
where ( (customer.city != salesman.city) and salesman.commission>12)

select * from customer
select * from salesman
```

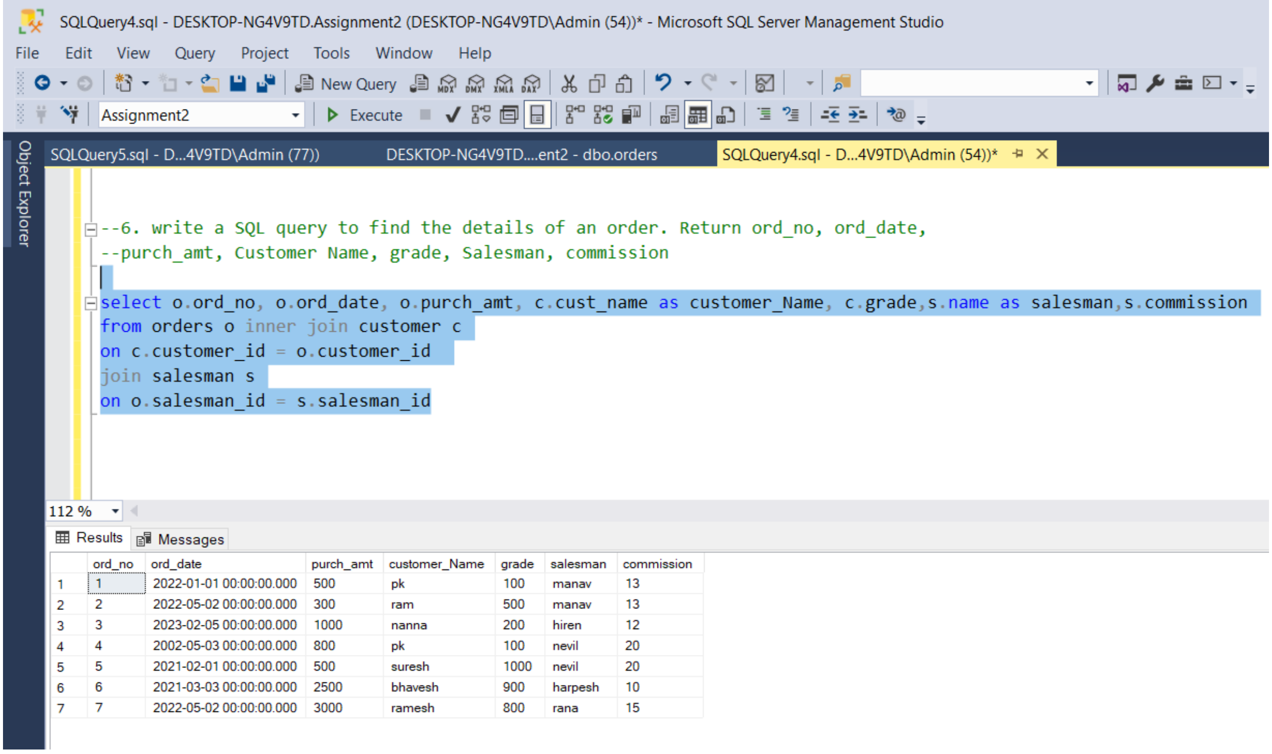
	customer_Name	city	salesman_Name	city	commission
1	nanna	amreli	manav	surat	13
2	bhavesh	bhavnagar	manav	surat	13

Assignment:- 2

RETRIEVE DATA USING JOIN WITH WHERE CLAUSE

6. write a SQL query to find the details of an order. Return ord_no,ord_date,purch_amt, Customer Name, grade, Salesman, commission

```sql
select o.ord_no, o.ord_date, o.purch_amt, c.cust_name as
customer_Name, c.grade,s.name as salesman,s.commission
from orders o inner join customer c
on c.customer_id = o.customer_id
join salesman s
on o.salesman_id = s.salesman_id
```


SQLQuery4.sql - DESKTOP-NG4V9TD.Assignment2 (DESKTOP-NG4V9TD\Admin (54))* - Microsoft SQL Server Management Studio
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Results
Messages

```sql
--6. write a SQL query to find the details of an order. Return ord_no, ord_date,
--purch_amt, Customer Name, grade, Salesman, commission

select o.ord_no, o.ord_date, o.purch_amt, c.cust_name as customer_Name, c.grade,s.name as salesman,s.commission
from orders o inner join customer c
on c.customer_id = o.customer_id
join salesman s
on o.salesman_id = s.salesman_id
```

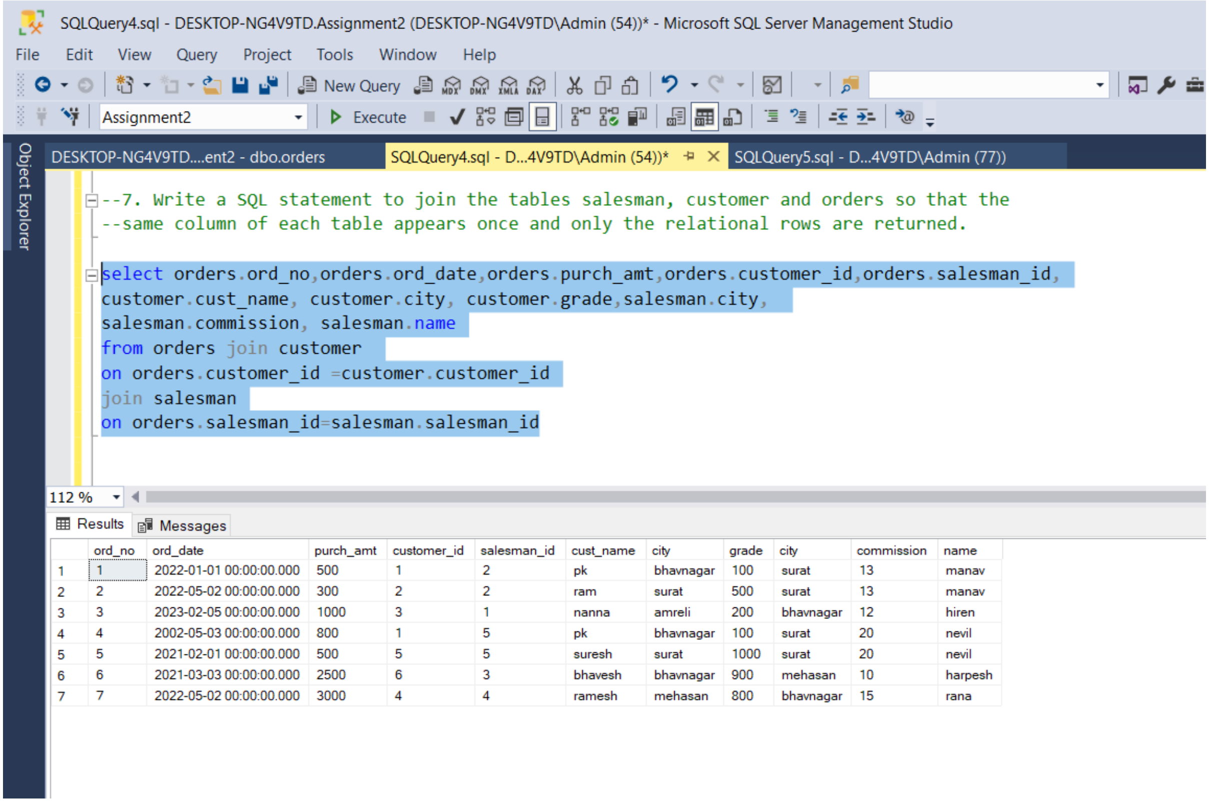
	ord_no	ord_date	purch_amt	customer_Name	grade	salesman	commission
1	1	2022-01-01 00:00:00.000	500	pk	100	manav	13
2	2	2022-05-02 00:00:00.000	300	ram	500	manav	13
3	3	2023-02-05 00:00:00.000	1000	nanna	200	hiren	12
4	4	2002-05-03 00:00:00.000	800	pk	100	nevil	20
5	5	2021-02-01 00:00:00.000	500	suresh	1000	nevil	20
6	6	2021-03-03 00:00:00.000	2500	bhavesh	900	harpesh	10
7	7	2022-05-02 00:00:00.000	3000	ramesh	800	rana	15

Assignment:- 2

RETRIEVE DATA USING JOIN WITH WHERE CLAUSE

7. Write a SQL statement to join the tables salesman, customer and orders so that the same column of each table appears once and only the relational rows are returned.

```
Select
orders.ord_no,orders.ord_date,orders.purch_amt,orders.customer_id,orders.salesman_id,
customer.cust_name, customer.city, customer.grade,salesman.city,
salesman.commission, salesman.name
from orders join customer
on orders.customer_id =customer.customer_id
join salesman
on orders.salesman_id=salesman.salesman_id
```


SQLQuery4.sql - DESKTOP-NG4V9TD.Assignment2 (DESKTOP-NG4V9TD\Admin (54))* - Microsoft SQL Server Management Studio
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SQLQuery4.sql - D...4V9TD\Admin (54))*
SQLQuery5.sql - D...4V9TD\Admin (77))
112 %
Results
Messages

```
--7. Write a SQL statement to join the tables salesman, customer and orders so that the
--same column of each table appears once and only the relational rows are returned.

select orders.ord_no,orders.ord_date,orders.purch_amt,orders.customer_id,orders.salesman_id,
customer.cust_name, customer.city, customer.grade,salesman.city,
salesman.commission, salesman.name
from orders join customer
on orders.customer_id =customer.customer_id
join salesman
on orders.salesman_id=salesman.salesman_id
```

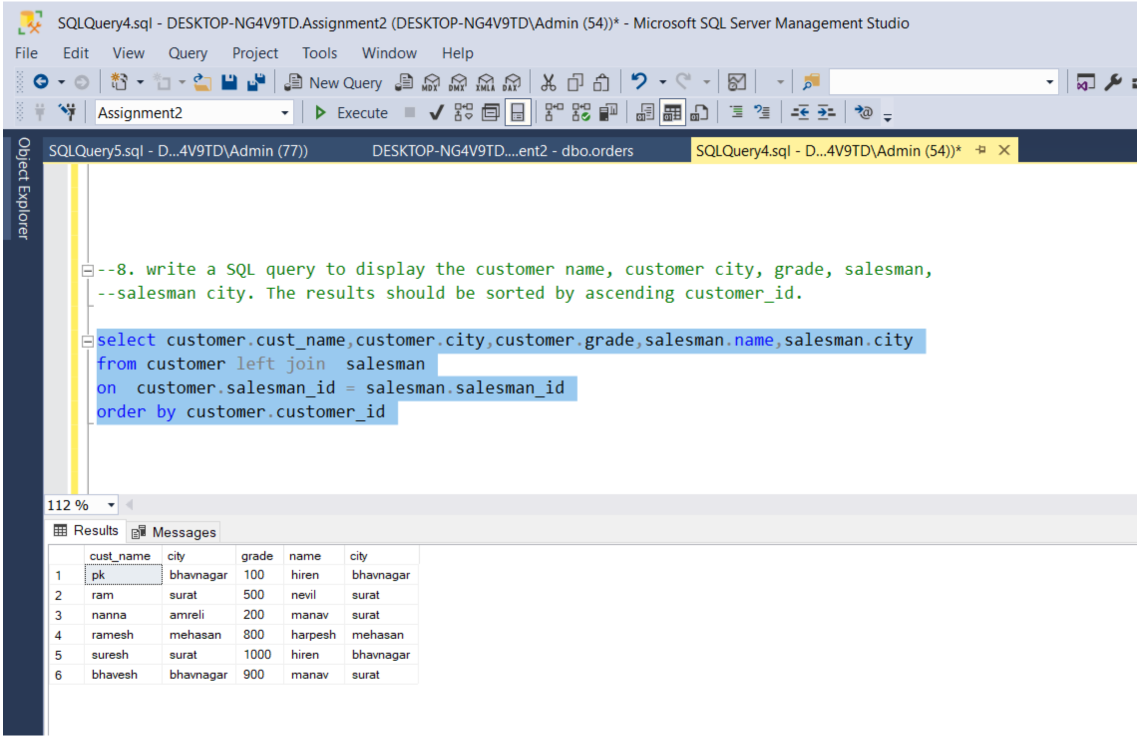
	ord_no	ord_date	purch_amt	customer_id	salesman_id	cust_name	city	grade	city	commission	name
1	1	2022-01-01 00:00:00.000	500	1	2	pk	bhavnagar	100	surat	13	manav
2	2	2022-05-02 00:00:00.000	300	2	2	ram	surat	500	surat	13	manav
3	3	2023-02-05 00:00:00.000	1000	3	1	nanna	amreli	200	bhavnagar	12	hiren
4	4	2002-05-03 00:00:00.000	800	1	5	pk	bhavnagar	100	surat	20	nevil
5	5	2021-02-01 00:00:00.000	500	5	5	suresh	surat	1000	surat	20	nevil
6	6	2021-03-03 00:00:00.000	2500	6	3	bhavesh	bhavnagar	900	mehasan	10	harpesh
7	7	2022-05-02 00:00:00.000	3000	4	4	ramesh	mehasan	800	bhavnagar	15	rana

Assignment:- 2

RETRIEVE DATA USING JOIN WITH WHERE CLAUSE

8. write a SQL query to display the customer name, customer city, grade, salesman, salesman city. The results should be sorted by ascending customer_id.

```
select
customer.cust_name,customer.city,customer.grade,salesman.name,salesm
an.city
from customer left join  salesman
on  customer.salesman_id = salesman.salesman_id
order by customer.customer_id
```


SQLQuery4.sql - DESKTOP-NG4V9TD.Assignment2 (DESKTOP-NG4V9TD\Admin (54))* - Microsoft SQL Server Management Studio
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SQLQuery4.sql - D...4V9TD\Admin (54))*
112 %
Results
Messages

```
--8. write a SQL query to display the customer name, customer city, grade, salesman,
--salesman city. The results should be sorted by ascending customer_id.

select customer.cust_name,customer.city,customer.grade,salesman.name,salesman.city
from customer left join  salesman
on  customer.salesman_id = salesman.salesman_id
order by customer.customer_id
```

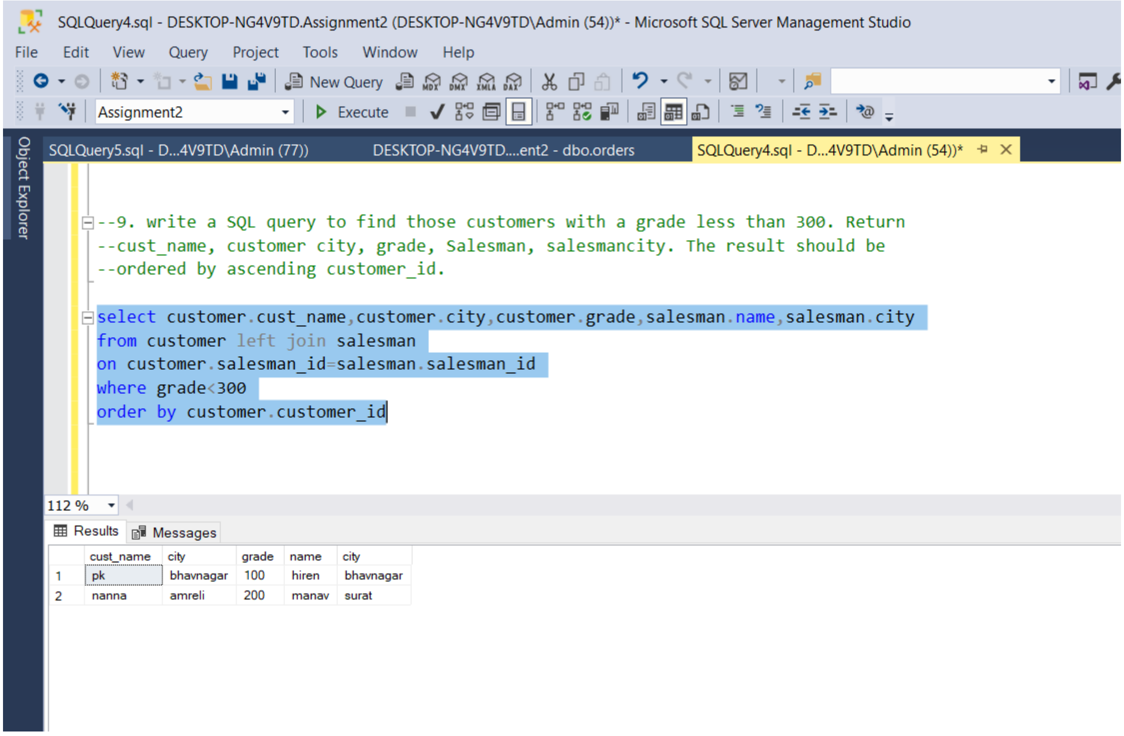
	cust_name	city	grade	name	city
1	pk	bhavnagar	100	hiren	bhavnagar
2	ram	surat	500	nevil	surat
3	nanna	amreli	200	manav	surat
4	ramesh	mehasan	800	harpesh	mehasan
5	suresh	surat	1000	hiren	bhavnagar
6	bhavesh	bhavnagar	900	manav	surat

Assignment:- 2

RETRIEVE DATA USING JOIN WITH WHERE CLAUSE

9. write a SQL query to find those customers with a grade less than 300. Return cust_name, customer city, grade, Salesman, salesmancity. The result should be ordered by ascending customer_id.

```
select customer.cust_name,customer.city,customer.grade,salesman.name,salesman.ciy
from customer left join salesman
on customer.salesman_id=salesman.salesman_id
where grade<300
order by customer.customer_id
```


SQLQuery4.sql - DESKTOP-NG4V9TD.Assignment2 (DESKTOP-NG4V9TD\Admin (54))* - Microsoft SQL Server Management Studio
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SQLQuery4.sql - D...4V9TD\Admin (54))*
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Results
Messages

```
--9. write a SQL query to find those customers with a grade less than 300. Return
--cust_name, customer city, grade, Salesman, salesmancity. The result should be
--ordered by ascending customer_id.

select customer.cust_name,customer.city,customer.grade,salesman.name,salesman.city
from customer left join salesman
on customer.salesman_id=salesman.salesman_id
where grade<300
order by customer.customer_id
```

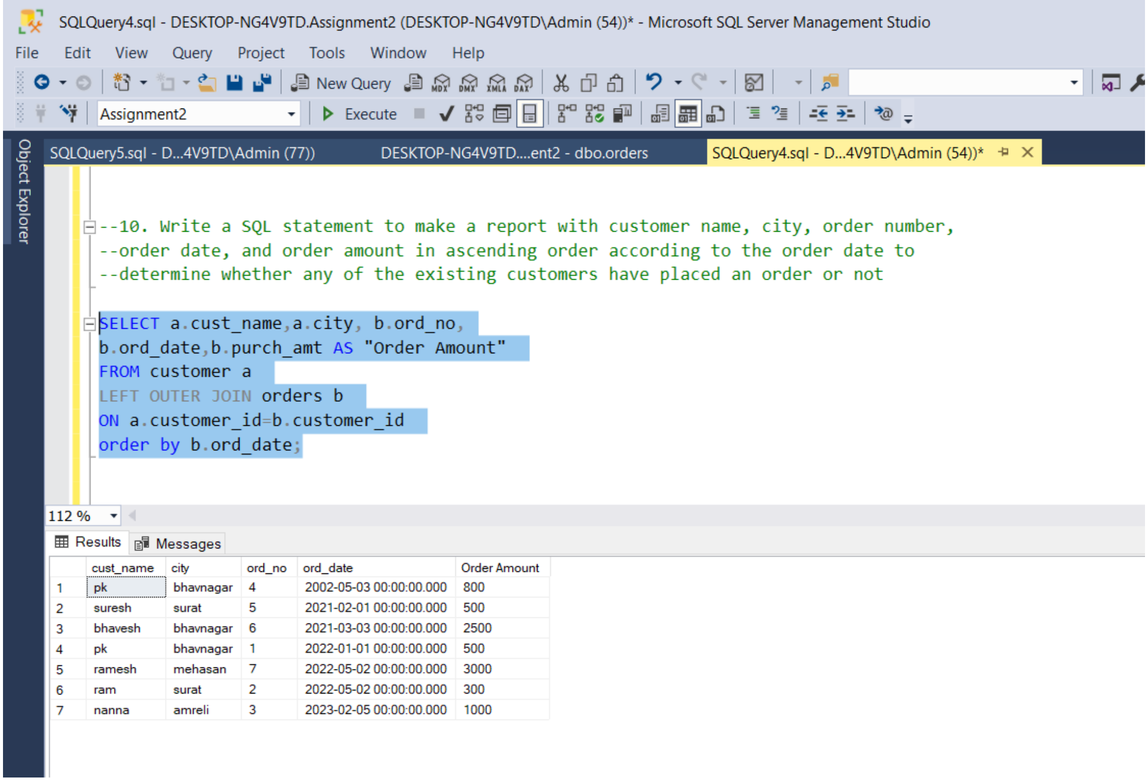
	cust_name	city	grade	name	city
1	pk	bhavnagar	100	hiren	bhavnagar
2	nanna	amreli	200	manav	surat

Assignment:- 2

RETRIEVE DATA USING JOIN WITH WHERE CLAUSE

10. Write a SQL statement to make a report with customer name, city, order number,order date,and order amount in ascending order according to the order date to determine whether any of the existing customers have placed an order or not

```
SELECT a.cust_name,a.city, b.ord_no, b.ord_date,b.purch_amt AS
"Order Amount"
FROM customer a LEFT OUTER JOIN orders b
ON a.customer_id=b.customer_id
order by b.ord_date;
```



SQLQuery4.sql - DESKTOP-NG4V9TD.Assignment2 (DESKTOP-NG4V9TD\Admin (54))* - Microsoft SQL Server Management Studio
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Execute
Object Explorer
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DESKTOP-NG4V9TD....ent2 - dbo.orders
SQLQuery4.sql - D...4V9TD\Admin (54))*
112 %
Results
Messages

```
--10. Write a SQL statement to make a report with customer name, city, order number,
--order date, and order amount in ascending order according to the order date to
--determine whether any of the existing customers have placed an order or not

SELECT a.cust_name,a.city, b.ord_no,
b.ord_date,b.purch_amt AS "Order Amount"
FROM customer a
LEFT OUTER JOIN orders b
ON a.customer_id=b.customer_id
order by b.ord_date;
```

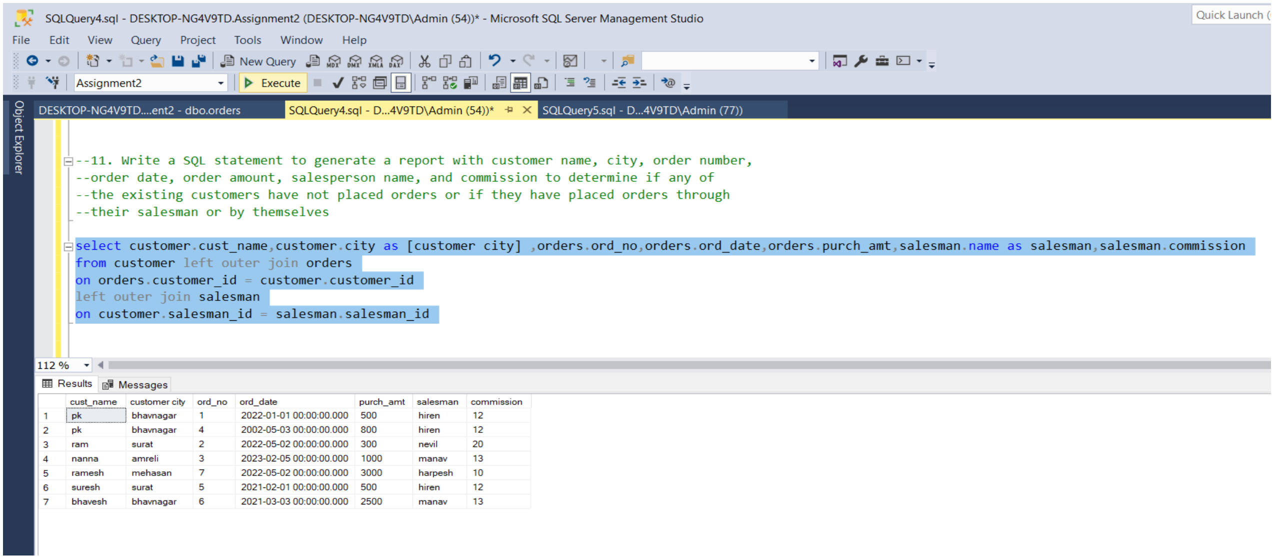
	cust_name	city	ord_no	ord_date	Order Amount
1	pk	bhavnagar	4	2002-05-03 00:00:00.000	800
2	suresh	surat	5	2021-02-01 00:00:00.000	500
3	bhavesh	bhavnagar	6	2021-03-03 00:00:00.000	2500
4	pk	bhavnagar	1	2022-01-01 00:00:00.000	500
5	ramesh	mehasan	7	2022-05-02 00:00:00.000	3000
6	ram	surat	2	2022-05-02 00:00:00.000	300
7	nanna	amreli	3	2023-02-05 00:00:00.000	1000

Assignment:- 2

RETRIEVE DATA USING JOIN WITH WHERE CLAUSE

11. Write a SQL statement to generate a report with customer name, city, order number,order date,order amount, salesperson name, and commission to determine if any ofthe existing customers have not placed orders or if they have placed orders through their salesman or by themselves

```sql
select customer.cust_name,customer.city as [customer city]
,orders.ord_no,orders.ord_date,orders.purch_amt,salesman.name as
salesman,salesman.commission
from customer left outer join orders
on orders.customer_id = customer.customer_id
left outer join salesman
on customer.salesman_id = salesman.salesman_id
```


SQLQuery4.sql - DESKTOP-NG4V9TD.Assignment2 (DESKTOP-NG4V9TD\Admin (54))* - Microsoft SQL Server Management Studio
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Results
Messages

```sql
--11. Write a SQL statement to generate a report with customer name, city, order number,
--order date, order amount, salesperson name, and commission to determine if any of
--the existing customers have not placed orders or if they have placed orders through
--their salesman or by themselves

select customer.cust_name,customer.city as [customer city] ,orders.ord_no,orders.ord_date,orders.purch_amt,salesman.name as salesman,salesman.commission
from customer left outer join orders
on orders.customer_id = customer.customer_id
left outer join salesman
on customer.salesman_id = salesman.salesman_id
```

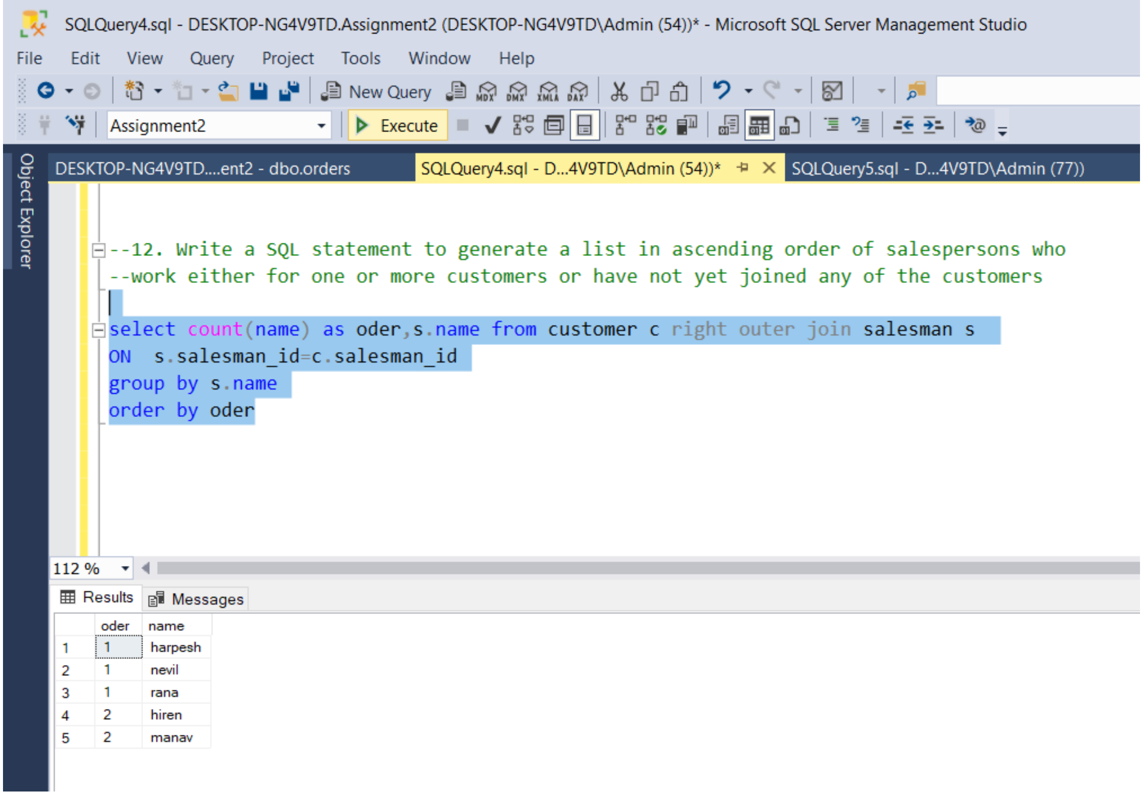
	cust_name	customer city	ord_no	ord_date	purch_amt	salesman	commission
1	pk	bhavnagar	1	2022-01-01 00:00:00.000	500	hiren	12
2	pk	bhavnagar	4	2002-05-03 00:00:00.000	800	hiren	12
3	ram	surat	2	2022-05-02 00:00:00.000	300	nevil	20
4	nanna	amreli	3	2023-02-05 00:00:00.000	1000	manav	13
5	ramesh	mehasan	7	2022-05-02 00:00:00.000	3000	harpesh	10
6	suresh	surat	5	2021-02-01 00:00:00.000	500	hiren	12
7	bhavesh	bhavnagar	6	2021-03-03 00:00:00.000	2500	manav	13

Assignment:- 2

RETRIEVE DATA USING JOIN WITH WHERE CLAUSE

12. Write a SQL statement to generate a list in ascending order of salespersons who work either for one or more customers or have not yet joined any of the customers

```
select count(name) as oder,s.name from customer c right outer join
salesman s
ON  s.salesman_id=c.salesman_id
group by s.name
order by oder
```



SQLQuery4.sql - DESKTOP-NG4V9TD.Assignment2 (DESKTOP-NG4V9TD\Admin (54))* - Microsoft SQL Server Management Studio
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Results
Messages

```
--12. Write a SQL statement to generate a list in ascending order of salespersons who
--work either for one or more customers or have not yet joined any of the customers

select count(name) as oder,s.name from customer c right outer join salesman s
ON  s.salesman_id=c.salesman_id
group by s.name
order by oder
```

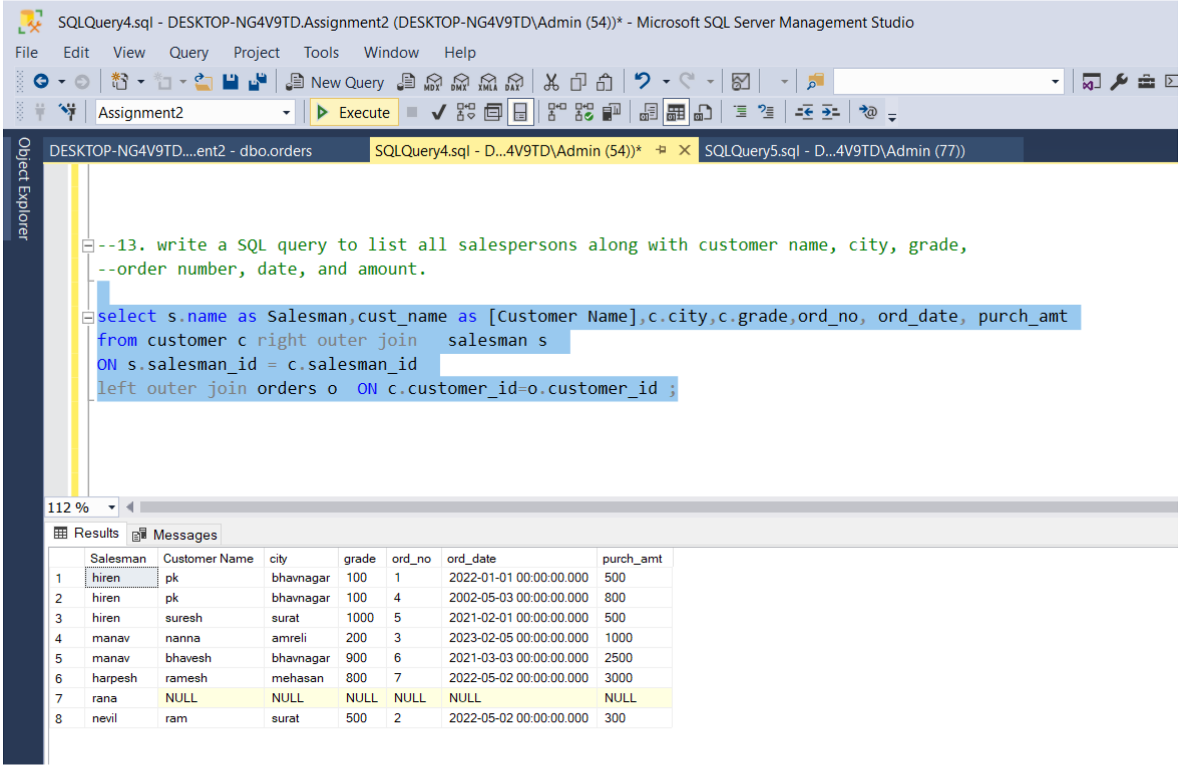
	oder	name
1	1	harpesh
2	1	nevil
3	1	rana
4	2	hiren
5	2	manav

Assignment:- 2

RETRIEVE DATA USING JOIN WITH WHERE CLAUSE

13. write a SQL query to list all salespersons along with customer name, city, grade, order number, date, and amount.

```
select s.name as Salesman,cust_name as [Customer
Name],c.city,c.grade,ord_no, ord_date, purch_amt
from customer c right outer join   salesman s
ON s.salesman_id = c.salesman_id
left outer join orders o  ON c.customer_id=o.customer_id ;
```



SQLQuery4.sql - DESKTOP-NG4V9TD.Assignment2 (DESKTOP-NG4V9TD\Admin (54))* - Microsoft SQL Server Management Studio
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Results
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```
--13. write a SQL query to list all salespersons along with customer name, city, grade,
--order number, date, and amount.

select s.name as Salesman,cust_name as [Customer Name],c.city,c.grade,ord_no, ord_date, purch_amt
from customer c right outer join   salesman s
ON s.salesman_id = c.salesman_id
left outer join orders o  ON c.customer_id=o.customer_id ;
```

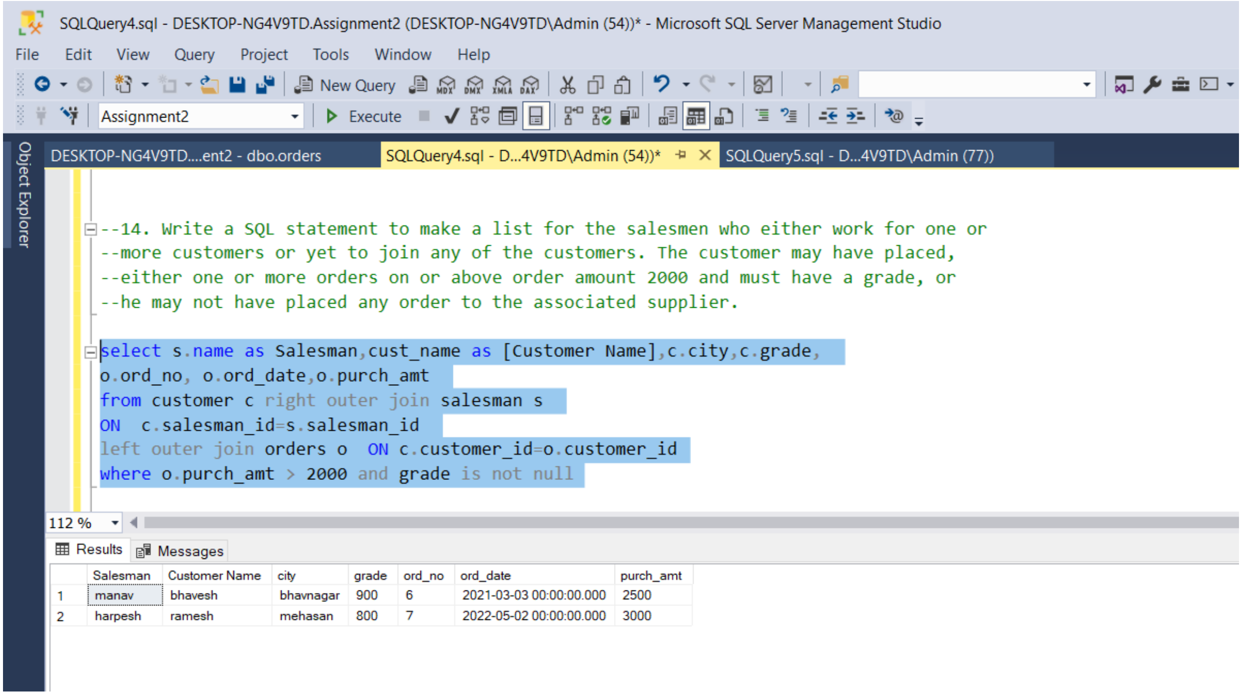
	Salesman	Customer Name	city	grade	ord_no	ord_date	purch_amt
1	hiren	pk	bhavnagar	100	1	2022-01-01 00:00:00.000	500
2	hiren	pk	bhavnagar	100	4	2002-05-03 00:00:00.000	800
3	hiren	suresh	surat	1000	5	2021-02-01 00:00:00.000	500
4	manav	nanna	amreli	200	3	2023-02-05 00:00:00.000	1000
5	manav	bhavesh	bhavnagar	900	6	2021-03-03 00:00:00.000	2500
6	harpesh	ramesh	mehasan	800	7	2022-05-02 00:00:00.000	3000
7	rana	NULL	NULL	NULL	NULL	NULL	NULL
8	nevil	ram	surat	500	2	2022-05-02 00:00:00.000	300

Assignment:- 2

RETRIEVE DATA USING JOIN WITH WHERE CLAUSE

14. Write a SQL statement to make a list for the salesmen who either work for one or more customers or yet to join any of the customers. The customer may have placed, either one or more orders on or above order amount 2000 and must have a grade, or he may not have placed any order to the associated supplier.

```sql
select s.name as Salesman,cust_name as [Customer
Name],c.city,c.grade,
o.ord_no, o.ord_date,o.purch_amt
from customer c right outer join salesman s
ON  c.salesman_id=s.salesman_id
left outer join orders o  ON c.customer_id=o.customer_id
where o.purch_amt > 2000 and grade is not null
```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```sql
--14. Write a SQL statement to make a list for the salesmen who either work for one or
--more customers or yet to join any of the customers. The customer may have placed,
--either one or more orders on or above order amount 2000 and must have a grade, or
--he may not have placed any order to the associated supplier.

select s.name as Salesman,cust_name as [Customer Name],c.city,c.grade,
o.ord_no, o.ord_date,o.purch_amt
from customer c right outer join salesman s
ON  c.salesman_id=s.salesman_id
left outer join orders o  ON c.customer_id=o.customer_id
where o.purch_amt > 2000 and grade is not null
```

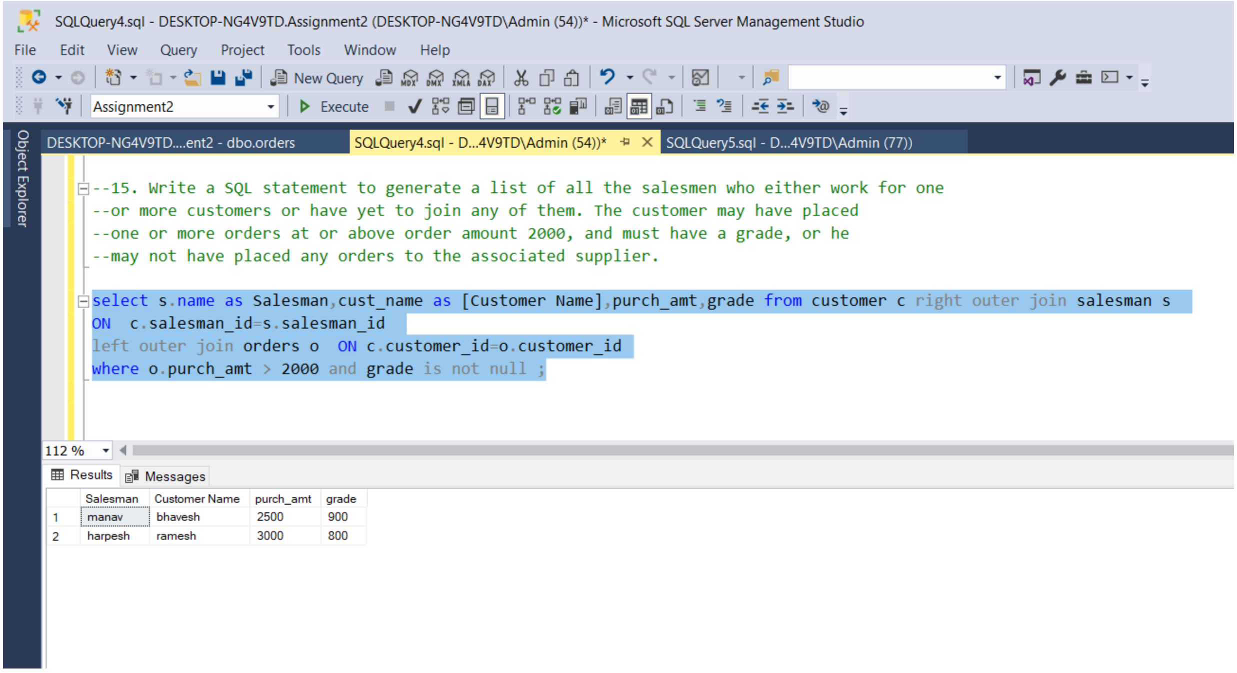
	Salesman	Customer Name	city	grade	ord_no	ord_date	purch_amt
1	manav	bhavesh	bhavnagar	900	6	2021-03-03 00:00:00.000	2500
2	harpesh	ramesh	mehasan	800	7	2022-05-02 00:00:00.000	3000

Assignment:- 2

RETRIEVE DATA USING JOIN WITH WHERE CLAUSE

15. Write a SQL statement to generate a list of all the salesmen who either work for one or more customers or have yet to join any of them. The customer may have placed one or more orders at or above order amount 2000, and must have a grade, or he may not have placed any orders to the associated supplier.

```sql
select s.name as Salesman,cust_name as
[CustomerName],purch_amt,grade from customer c right outer join
salesman s
ON  c.salesman_id=s.salesman_id
left outer join orders o  ON c.customer_id=o.customer_id
where o.purch_amt > 2000 and grade is not null ;
```


SQLQuery4.sql - DESKTOP-NG4V9TD.Assignment2 (DESKTOP-NG4V9TD\Admin (54))* - Microsoft SQL Server Management Studio
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```sql
--15. Write a SQL statement to generate a list of all the salesmen who either work for one
--or more customers or have yet to join any of them. The customer may have placed
--one or more orders at or above order amount 2000, and must have a grade, or he
--may not have placed any orders to the associated supplier.

select s.name as Salesman,cust_name as [Customer Name],purch_amt,grade from customer c right outer join salesman s
ON  c.salesman_id=s.salesman_id
left outer join orders o  ON c.customer_id=o.customer_id
where o.purch_amt > 2000 and grade is not null ;
```

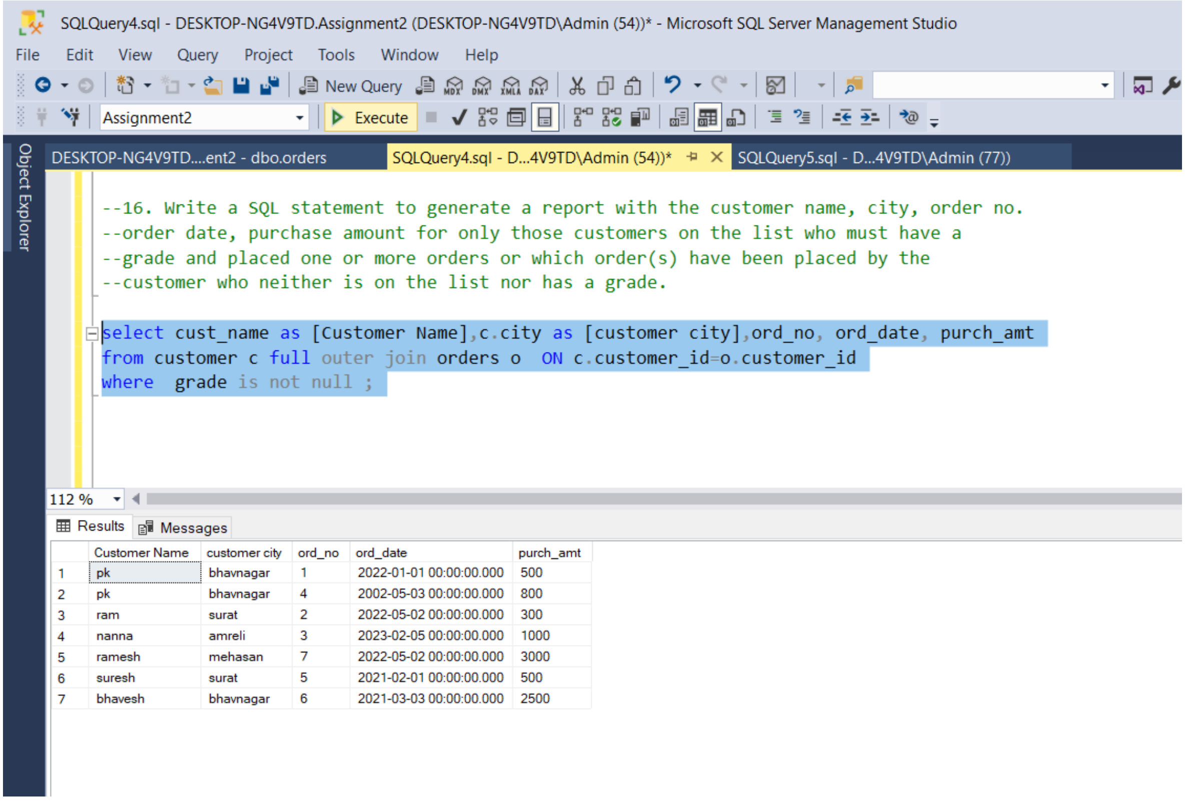
	Salesman	Customer Name	purch_amt	grade
1	manav	bhavesh	2500	900
2	harpesh	ramesh	3000	800

Assignment:- 2

RETRIEVE DATA USING JOIN WITH WHERE CLAUSE

16. Write a SQL statement to generate a report with the customer name, city, order no. order date, purchase amount for only those customers on the list who must have a grade and placed one or more orders or which order(s) have been placed by the customer who neither is on the list nor has a grade.

```sql
select cust_name as [Customer Name],c.city as [customer
city],ord_no, ord_date, purch_amt
from customer c full outer join orders o
ON c.customer_id=o.customer_id
where  grade is not null ;
```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Results
Messages

```sql
--16. Write a SQL statement to generate a report with the customer name, city, order no.
--order date, purchase amount for only those customers on the list who must have a
--grade and placed one or more orders or which order(s) have been placed by the
--customer who neither is on the list nor has a grade.

select cust_name as [Customer Name],c.city as [customer city],ord_no, ord_date, purch_amt
from customer c full outer join orders o  ON c.customer_id=o.customer_id
where  grade is not null ;
```

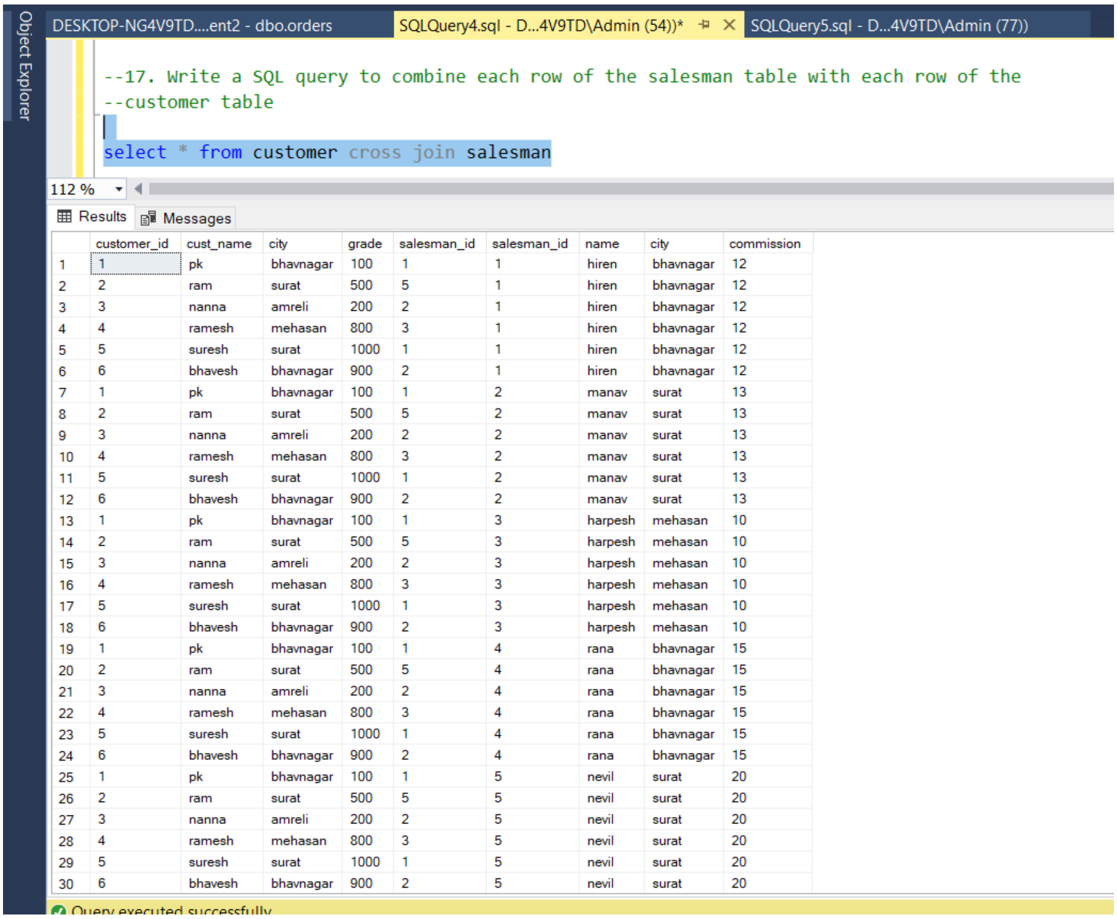
	Customer Name	customer city	ord_no	ord_date	purch_amt
1	pk	bhavnagar	1	2022-01-01 00:00:00.000	500
2	pk	bhavnagar	4	2002-05-03 00:00:00.000	800
3	ram	surat	2	2022-05-02 00:00:00.000	300
4	nanna	amreli	3	2023-02-05 00:00:00.000	1000
5	ramesh	mehasan	7	2022-05-02 00:00:00.000	3000
6	suresh	surat	5	2021-02-01 00:00:00.000	500
7	bhavesh	bhavnagar	6	2021-03-03 00:00:00.000	2500

Assignment:- 2

RETRIEVE DATA USING JOIN WITH WHERE CLAUSE

17. Write a SQL query to combine each row of the salesman table with each row of the customer table

```
select * from customer cross join salesman
```



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Results
Messages

```
--17. Write a SQL query to combine each row of the salesman table with each row of the
--customer table

select * from customer cross join salesman
```

	customer_id	cust_name	city	grade	salesman_id	salesman_id	name	city	commission
1	1	pk	bhavnagar	100	1	1	hiren	bhavnagar	12
2	2	ram	surat	500	5	1	hiren	bhavnagar	12
3	3	nanna	amreli	200	2	1	hiren	bhavnagar	12
4	4	ramesh	mehasan	800	3	1	hiren	bhavnagar	12
5	5	suresh	surat	1000	1	1	hiren	bhavnagar	12
6	6	bhavesh	bhavnagar	900	2	1	hiren	bhavnagar	12
7	1	pk	bhavnagar	100	1	2	manav	surat	13
8	2	ram	surat	500	5	2	manav	surat	13
9	3	nanna	amreli	200	2	2	manav	surat	13
10	4	ramesh	mehasan	800	3	2	manav	surat	13
11	5	suresh	surat	1000	1	2	manav	surat	13
12	6	bhavesh	bhavnagar	900	2	2	manav	surat	13
13	1	pk	bhavnagar	100	1	3	harpesh	mehasan	10
14	2	ram	surat	500	5	3	harpesh	mehasan	10
15	3	nanna	amreli	200	2	3	harpesh	mehasan	10
16	4	ramesh	mehasan	800	3	3	harpesh	mehasan	10
17	5	suresh	surat	1000	1	3	harpesh	mehasan	10
18	6	bhavesh	bhavnagar	900	2	3	harpesh	mehasan	10
19	1	pk	bhavnagar	100	1	4	rana	bhavnagar	15
20	2	ram	surat	500	5	4	rana	bhavnagar	15
21	3	nanna	amreli	200	2	4	rana	bhavnagar	15
22	4	ramesh	mehasan	800	3	4	rana	bhavnagar	15
23	5	suresh	surat	1000	1	4	rana	bhavnagar	15
24	6	bhavesh	bhavnagar	900	2	4	rana	bhavnagar	15
25	1	pk	bhavnagar	100	1	5	nevil	surat	20
26	2	ram	surat	500	5	5	nevil	surat	20
27	3	nanna	amreli	200	2	5	nevil	surat	20
28	4	ramesh	mehasan	800	3	5	nevil	surat	20
29	5	suresh	surat	1000	1	5	nevil	surat	20
30	6	bhavesh	bhavnagar	900	2	5	nevil	surat	20

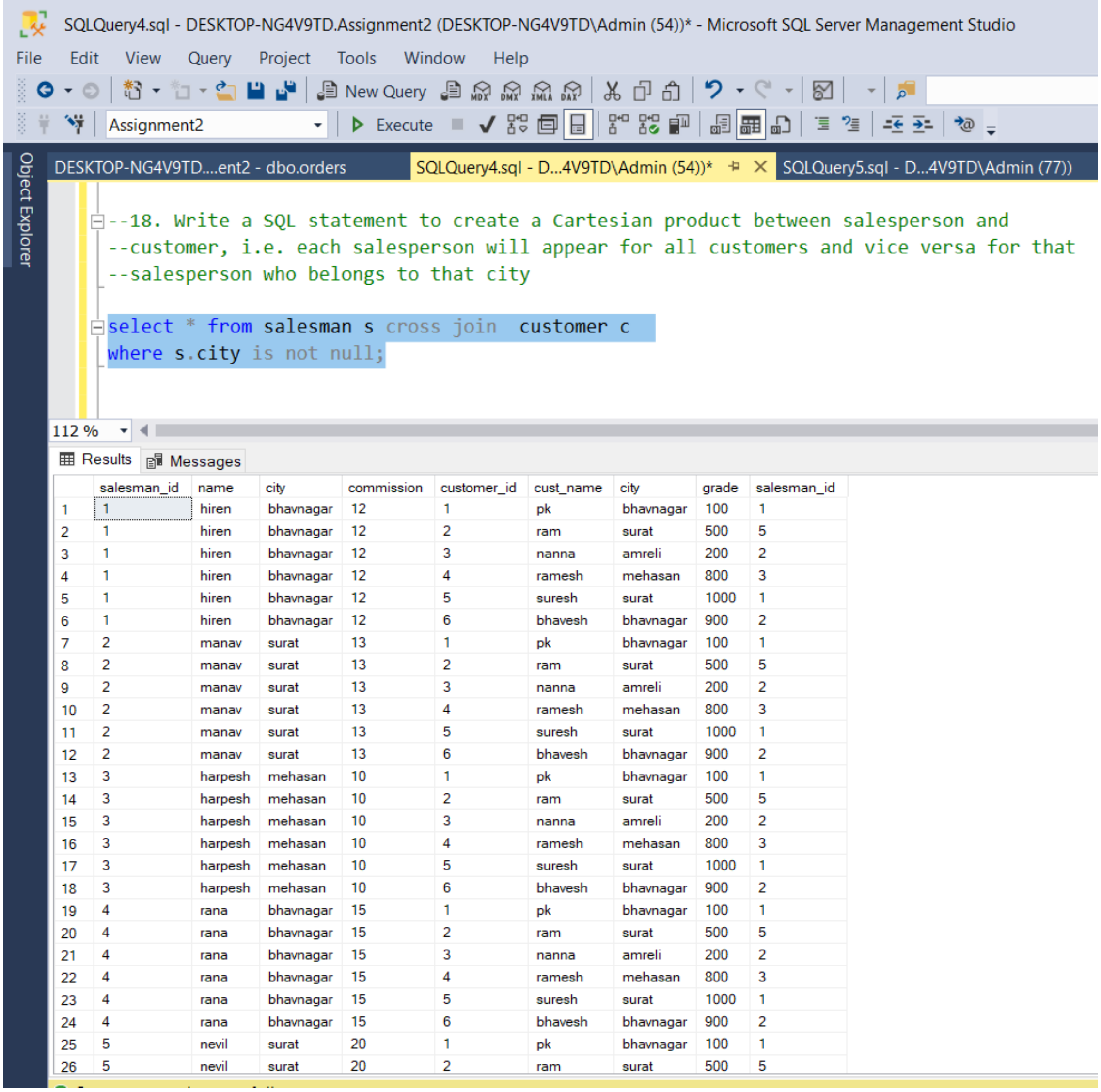
✓ Query executed successfully

Assignment:- 2

RETRIEVE DATA USING JOIN WITH WHERE CLAUSE

18. Write a SQL statement to create a Cartesian product between salesperson and customer, i.e. each salesperson will appear for all customers and vice versa for that salesperson who belongs to that city

```
select * from salesman s cross join  customer c
where s.city is not null;
```



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```
--18. Write a SQL statement to create a Cartesian product between salesperson and
--customer, i.e. each salesperson will appear for all customers and vice versa for that
--salesperson who belongs to that city

select * from salesman s cross join  customer c
where s.city is not null;
```

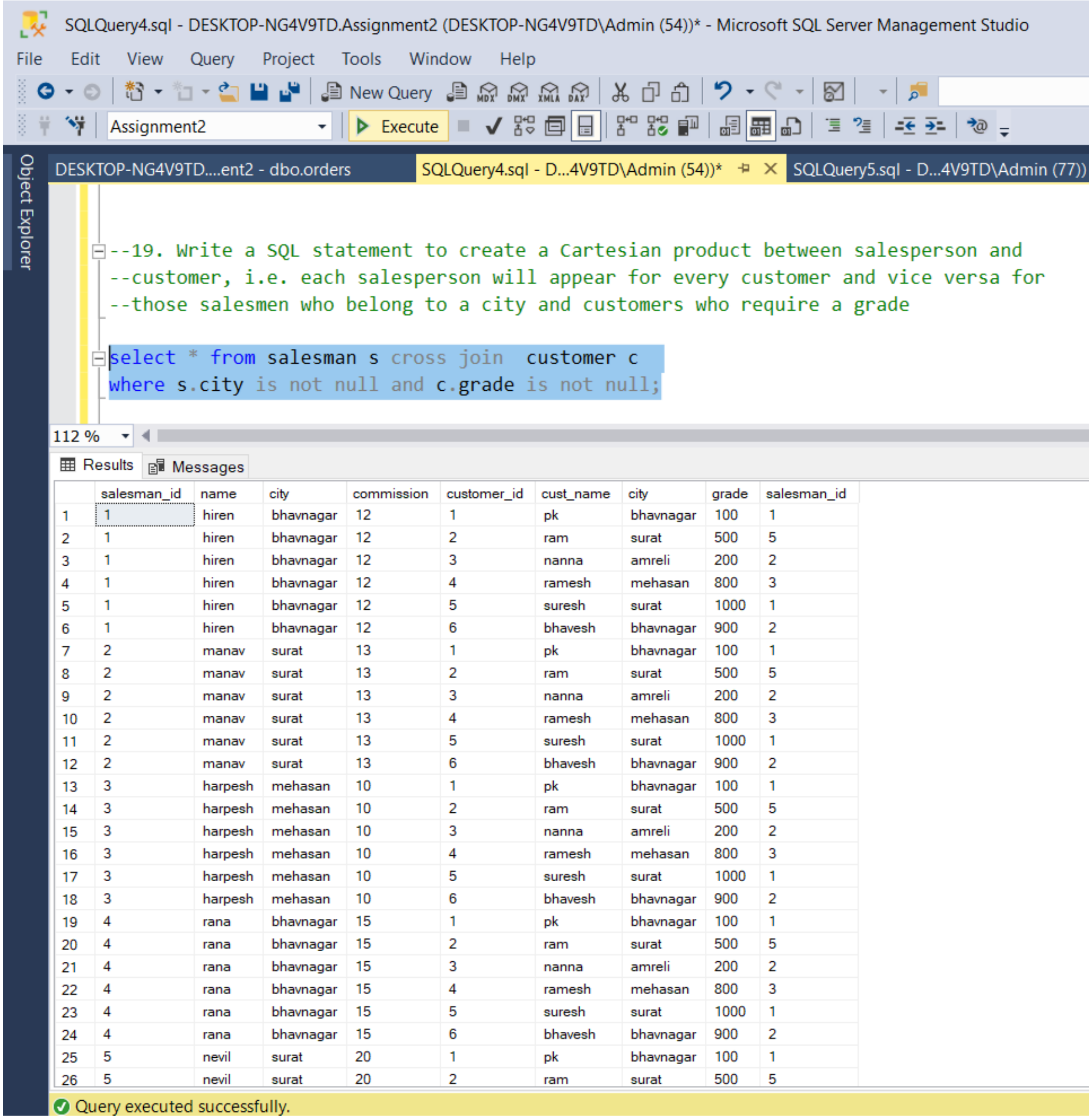
	salesman_id	name	city	commission	customer_id	cust_name	city	grade	salesman_id
1	1	hiren	bhavnagar	12	1	pk	bhavnagar	100	1
2	1	hiren	bhavnagar	12	2	ram	surat	500	5
3	1	hiren	bhavnagar	12	3	nanna	amreli	200	2
4	1	hiren	bhavnagar	12	4	ramesh	mehasan	800	3
5	1	hiren	bhavnagar	12	5	suresh	surat	1000	1
6	1	hiren	bhavnagar	12	6	bhavesh	bhavnagar	900	2
7	2	manav	surat	13	1	pk	bhavnagar	100	1
8	2	manav	surat	13	2	ram	surat	500	5
9	2	manav	surat	13	3	nanna	amreli	200	2
10	2	manav	surat	13	4	ramesh	mehasan	800	3
11	2	manav	surat	13	5	suresh	surat	1000	1
12	2	manav	surat	13	6	bhavesh	bhavnagar	900	2
13	3	harpesh	mehasan	10	1	pk	bhavnagar	100	1
14	3	harpesh	mehasan	10	2	ram	surat	500	5
15	3	harpesh	mehasan	10	3	nanna	amreli	200	2
16	3	harpesh	mehasan	10	4	ramesh	mehasan	800	3
17	3	harpesh	mehasan	10	5	suresh	surat	1000	1
18	3	harpesh	mehasan	10	6	bhavesh	bhavnagar	900	2
19	4	rana	bhavnagar	15	1	pk	bhavnagar	100	1
20	4	rana	bhavnagar	15	2	ram	surat	500	5
21	4	rana	bhavnagar	15	3	nanna	amreli	200	2
22	4	rana	bhavnagar	15	4	ramesh	mehasan	800	3
23	4	rana	bhavnagar	15	5	suresh	surat	1000	1
24	4	rana	bhavnagar	15	6	bhavesh	bhavnagar	900	2
25	5	nevil	surat	20	1	pk	bhavnagar	100	1
26	5	nevil	surat	20	2	ram	surat	500	5

Assignment:- 2

RETRIEVE DATA USING JOIN WITH WHERE CLAUSE

19. Write a SQL statement to create a Cartesian product between salesperson and customer, i.e. each salesperson will appear for every customer and vice versa for those salesmen who belong to a city and customers who require a grade

```
select * from salesman s cross join  customer c
where s.city is not null and c.grade is not null;
```



SQLQuery4.sql - DESKTOP-NG4V9TD.Assignment2 (DESKTOP-NG4V9TD\Admin (54))* - Microsoft SQL Server Management Studio
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Results
Messages

```
--19. Write a SQL statement to create a Cartesian product between salesperson and
--customer, i.e. each salesperson will appear for every customer and vice versa for
--those salesmen who belong to a city and customers who require a grade

select * from salesman s cross join  customer c
where s.city is not null and c.grade is not null;
```

	salesman_id	name	city	commission	customer_id	cust_name	city	grade	salesman_id
1	1	hiren	bhavnagar	12	1	pk	bhavnagar	100	1
2	1	hiren	bhavnagar	12	2	ram	surat	500	5
3	1	hiren	bhavnagar	12	3	nanna	amreli	200	2
4	1	hiren	bhavnagar	12	4	ramesh	mehasan	800	3
5	1	hiren	bhavnagar	12	5	suresh	surat	1000	1
6	1	hiren	bhavnagar	12	6	bhavesh	bhavnagar	900	2
7	2	manav	surat	13	1	pk	bhavnagar	100	1
8	2	manav	surat	13	2	ram	surat	500	5
9	2	manav	surat	13	3	nanna	amreli	200	2
10	2	manav	surat	13	4	ramesh	mehasan	800	3
11	2	manav	surat	13	5	suresh	surat	1000	1
12	2	manav	surat	13	6	bhavesh	bhavnagar	900	2
13	3	harpesh	mehasan	10	1	pk	bhavnagar	100	1
14	3	harpesh	mehasan	10	2	ram	surat	500	5
15	3	harpesh	mehasan	10	3	nanna	amreli	200	2
16	3	harpesh	mehasan	10	4	ramesh	mehasan	800	3
17	3	harpesh	mehasan	10	5	suresh	surat	1000	1
18	3	harpesh	mehasan	10	6	bhavesh	bhavnagar	900	2
19	4	rana	bhavnagar	15	1	pk	bhavnagar	100	1
20	4	rana	bhavnagar	15	2	ram	surat	500	5
21	4	rana	bhavnagar	15	3	nanna	amreli	200	2
22	4	rana	bhavnagar	15	4	ramesh	mehasan	800	3
23	4	rana	bhavnagar	15	5	suresh	surat	1000	1
24	4	rana	bhavnagar	15	6	bhavesh	bhavnagar	900	2
25	5	nevil	surat	20	1	pk	bhavnagar	100	1
26	5	nevil	surat	20	2	ram	surat	500	5

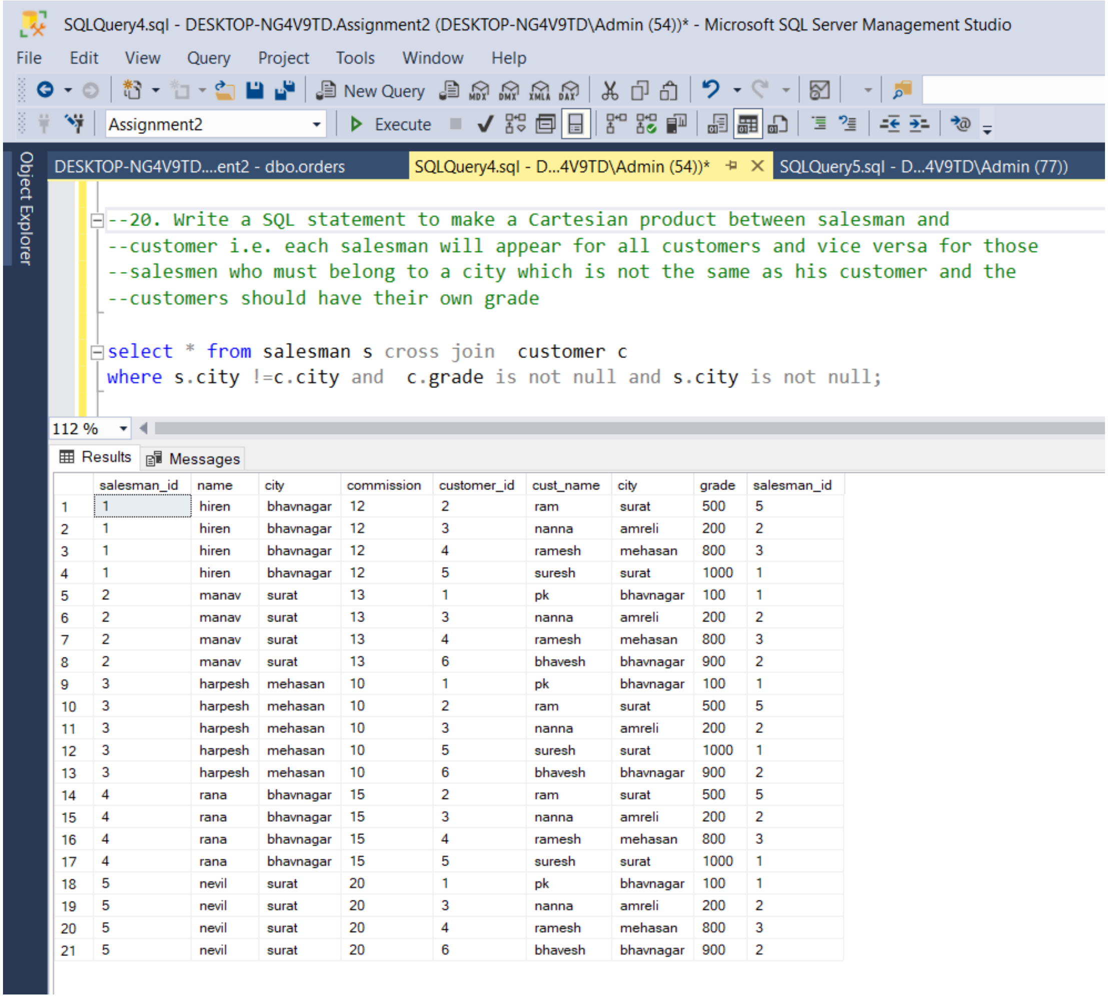
✓ Query executed successfully.

Assignment:- 2

RETRIEVE DATA USING JOIN WITH WHERE CLAUSE

20. Write a SQL statement to make a Cartesian product between salesman and customer i.e. each salesman will appear for all customers and vice versa for those salesmen who must belong to a city which is not the same as his customer and the customers should have their own grade

```
select * from salesman s cross join  customer c
where s.city !=c.city and  c.grade is not null and s.city is not
null;
```



SQLQuery4.sql - DESKTOP-NG4V9TD.Assignment2 (DESKTOP-NG4V9TD\Admin (54))* - Microsoft SQL Server Management Studio
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Messages

```
--20. Write a SQL statement to make a Cartesian product between salesman and
--customer i.e. each salesman will appear for all customers and vice versa for those
--salesmen who must belong to a city which is not the same as his customer and the
--customers should have their own grade

select * from salesman s cross join  customer c
where s.city !=c.city and  c.grade is not null and s.city is not null;
```

	salesman_id	name	city	commission	customer_id	cust_name	city	grade	salesman_id
1	1	hiren	bhavnagar	12	2	ram	surat	500	5
2	1	hiren	bhavnagar	12	3	nanna	amreli	200	2
3	1	hiren	bhavnagar	12	4	ramesh	mehasan	800	3
4	1	hiren	bhavnagar	12	5	suresh	surat	1000	1
5	2	manav	surat	13	1	pk	bhavnagar	100	1
6	2	manav	surat	13	3	nanna	amreli	200	2
7	2	manav	surat	13	4	ramesh	mehasan	800	3
8	2	manav	surat	13	6	bhavesh	bhavnagar	900	2
9	3	harpesh	mehasan	10	1	pk	bhavnagar	100	1
10	3	harpesh	mehasan	10	2	ram	surat	500	5
11	3	harpesh	mehasan	10	3	nanna	amreli	200	2
12	3	harpesh	mehasan	10	5	suresh	surat	1000	1
13	3	harpesh	mehasan	10	6	bhavesh	bhavnagar	900	2
14	4	rana	bhavnagar	15	2	ram	surat	500	5
15	4	rana	bhavnagar	15	3	nanna	amreli	200	2
16	4	rana	bhavnagar	15	4	ramesh	mehasan	800	3
17	4	rana	bhavnagar	15	5	suresh	surat	1000	1
18	5	nevil	surat	20	1	pk	bhavnagar	100	1
19	5	nevil	surat	20	3	nanna	amreli	200	2
20	5	nevil	surat	20	4	ramesh	mehasan	800	3
21	5	nevil	surat	20	6	bhavesh	bhavnagar	900	2