

DBMS ASSIGNMENT-4

Name- B.Ieeshasree

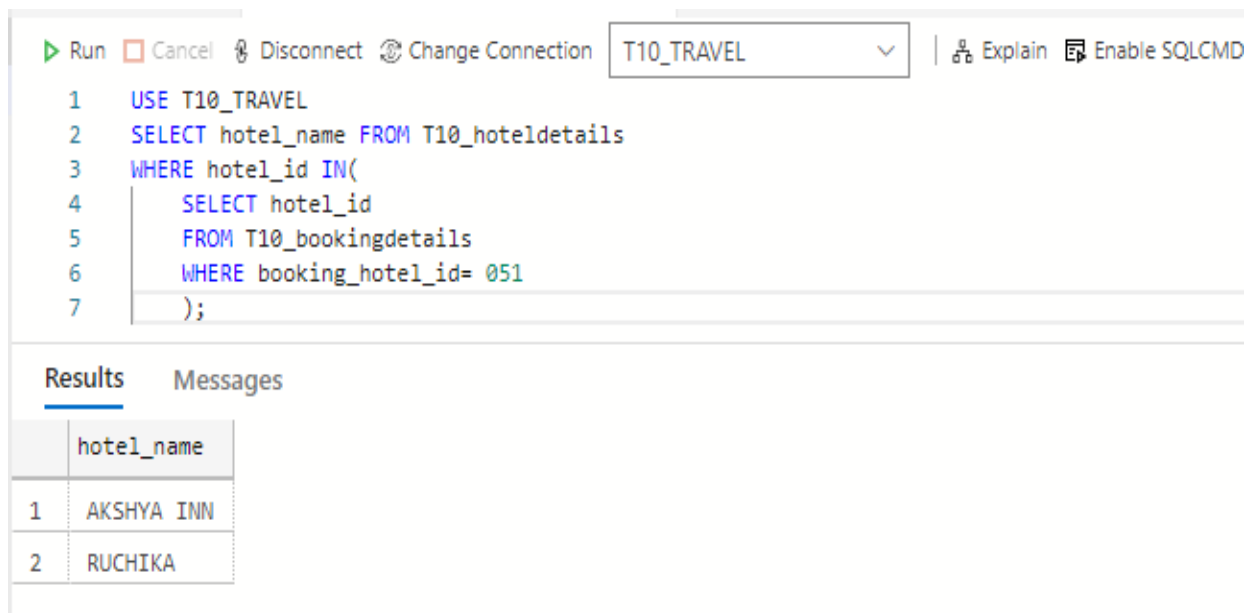
Roll no.-19bcs021

1. Write 5 Nested Queries for your respective database- the queries should not be very similar like just changing the where clause or just building all the queries on only one or two tables etc. The queries should make sense, it should cover most part of your database tables.

QUERY 1:

```
USE T10_TRAVEL
SELECT hotel_name FROM T10_hoteldetails
WHERE hotel_id IN(
    SELECT hotel_id
    FROM T10_bookingdetails
    WHERE booking_hotel_id= 051
);
```

OUTPUT:



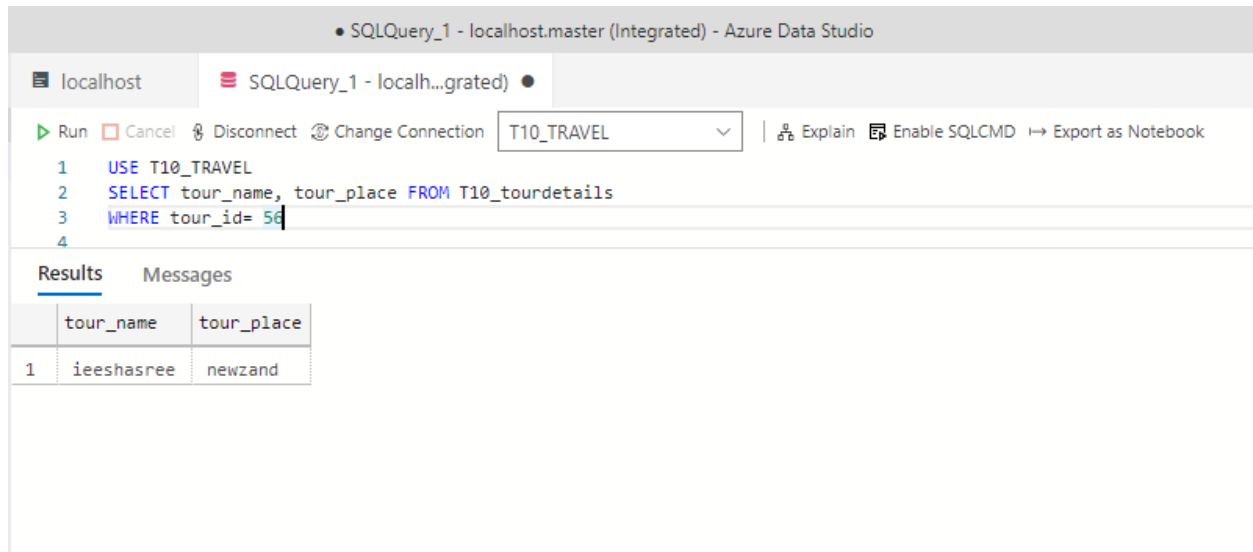
The screenshot displays a SQL IDE interface. At the top, there are buttons for 'Run', 'Cancel', 'Disconnect', and 'Change Connection', along with a dropdown menu set to 'T10_TRAVEL'. Below these are 'Explain' and 'Enable SQLCMD' options. The main area shows a SQL query with line numbers 1 through 7. The query is a nested SELECT statement. Below the query editor, there are two tabs: 'Results' and 'Messages'. The 'Results' tab is active, showing a table with two columns: 'hotel_name' and an implicit row index. The table contains two rows of data.

	hotel_name
1	AKSHYA INN
2	RUCHIKA

QUERY 2:

```
USE T10_TRAVEL
SELECT tour_name, tour_place FROM T10_tourdetails
WHERE tour_id= 56
```

OUTPUT:



• SQLQuery_1 - localhost.master (Integrated) - Azure Data Studio

localhost SQLQuery_1 - localh...grated)

Run Cancel Disconnect Change Connection T10_TRAVEL Explain Enable SQLCMD Export as Notebook

```
1 USE T10_TRAVEL
2 SELECT tour_name, tour_place FROM T10_tourdetails
3 WHERE tour_id= 56
4
```

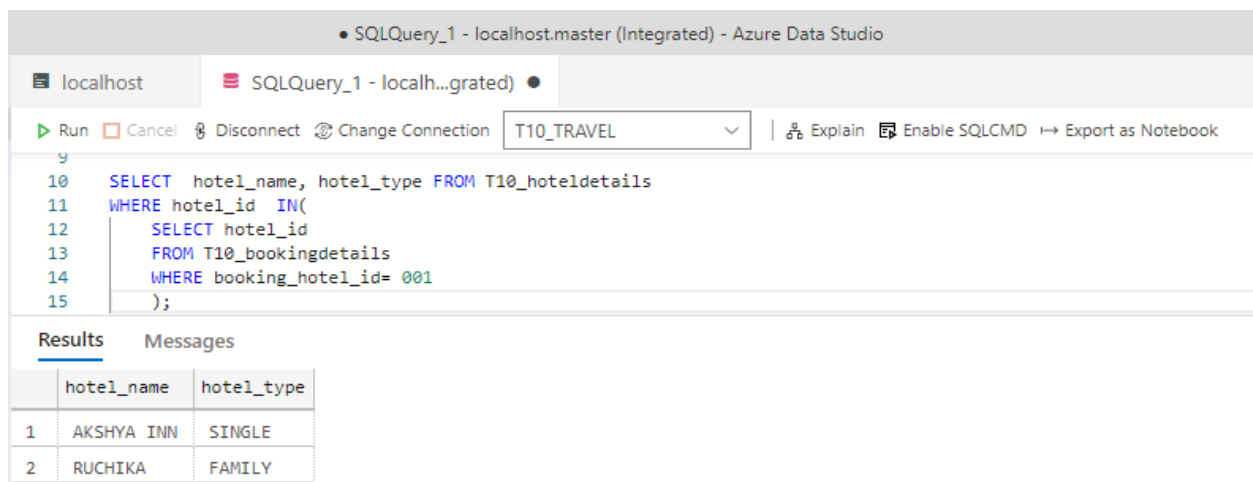
Results Messages

	tour_name	tour_place
1	ieeshasree	newzand

QUERY 3:

```
SELECT hotel_name, hotel_type FROM T10_hoteldetails
WHERE hotel_id IN(
    SELECT hotel_id
    FROM T10_bookingdetails
    WHERE booking_hotel_id= 001
);
```

OUTPUT:



• SQLQuery_1 - localhost.master (Integrated) - Azure Data Studio

localhost SQLQuery_1 - localh...grated)

Run Cancel Disconnect Change Connection T10_TRAVEL Explain Enable SQLCMD Export as Notebook

```
9
10 SELECT hotel_name, hotel_type FROM T10_hoteldetails
11 WHERE hotel_id IN(
12     SELECT hotel_id
13     FROM T10_bookingdetails
14     WHERE booking_hotel_id= 001
15 );
```

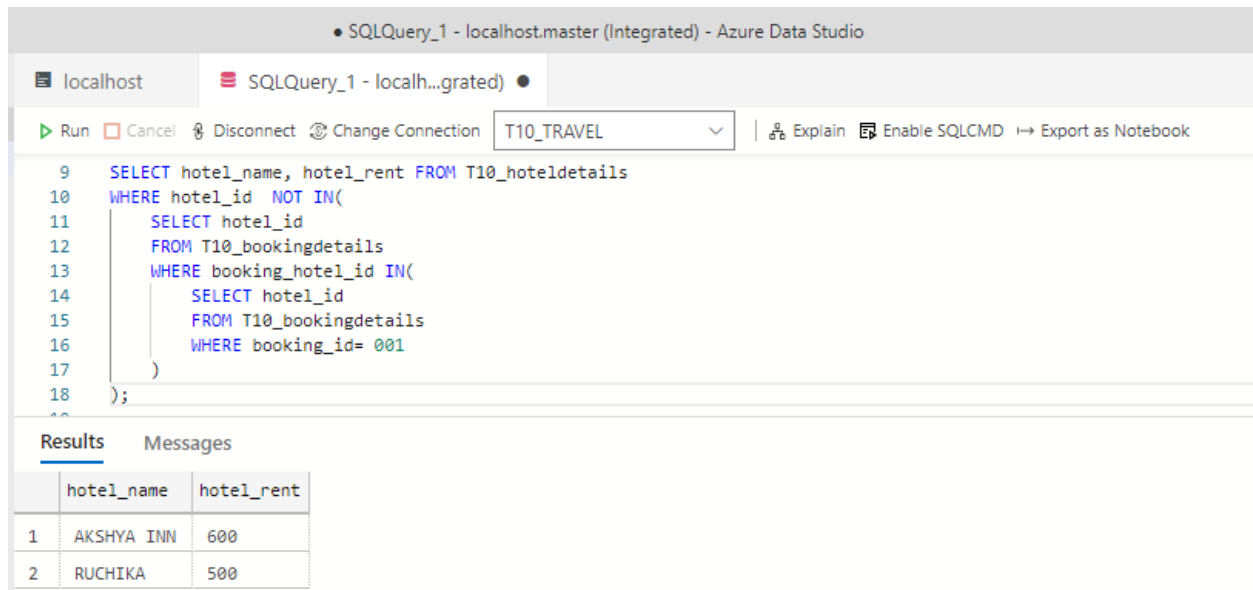
Results Messages

	hotel_name	hotel_type
1	AKSHYA INN	SINGLE
2	RUCHIKA	FAMILY

QUERY 4:

```
SELECT hotel_name, hotel_rent FROM T10_hoteldetails
WHERE hotel_id NOT IN(
    SELECT hotel_id
    FROM T10_bookingdetails
    WHERE booking_hotel_id IN(
        SELECT hotel_id
        FROM T10_bookingdetails
        WHERE booking_id= 001
    )
);
```

OUTPUT:



The screenshot shows the Azure Data Studio interface with a query executed against a local database. The query is as follows:

```
9  SELECT hotel_name, hotel_rent FROM T10_hoteldetails
10 WHERE hotel_id NOT IN(
11     SELECT hotel_id
12     FROM T10_bookingdetails
13     WHERE booking_hotel_id IN(
14         SELECT hotel_id
15         FROM T10_bookingdetails
16         WHERE booking_id= 001
17     )
18 );
```

The results are displayed in a table with the following data:

	hotel_name	hotel_rent
1	AKSHYA INN	600
2	RUCHIKA	500

QUERY 5:

```
SELECT hotel_id,hotel_name,hotel_type,hotel_rent,hotel_description,hotel_address
FROM T10_hoteldetails
WHERE EXISTS (
    SELECT * FROM T10_hoteldetails
    WHERE T10_hoteldetails. hotel_id = T10_hoteldetails.hotel_id
);
```

OUTPUT:

```
SELECT hotel_id,hotel_name,hotel_type,hotel_rent,hotel_description,hotel_address
FROM T10_hoteldetails
WHERE EXISTS (
    SELECT * FROM T10_hoteldetails
    WHERE T10_hoteldetails.hotel_id = T10_hoteldetails.hotel_id
);
```

	hotel_id	hotel_name	hotel_type	hotel_rent	hotel_description	hotel_address
1	101	chakri	single	200	NULL	vizag
2	102	Manasa	single	300	NULL	kovur
3	103	srihari	double	100	NULL	kumool
4	104	Maharshi	single	200	NULL	kakinada
5	105	mehraj	single	250	NULL	kadapa

2. Illustrate how we can use Concat and As operators in SQL

QUERY 1:

```
SELECT CONCAT(hotel_name,',',hotel_type) AS newcon
FROM T10_hoteldetails
```

OUTPUT:

• SQLQuery_1 - localhost.master (Integrated) - Azure Data Studio

localhost SQLQuery_1 - localh...grated)

Run Cancel Disconnect Change Connection T10_TRAVEL Explain Enable SQLCMD Export as Notebook

```
27 SELECT CONCAT(hotel_name,',',hotel_type) AS newcon
28 FROM T10_hoteldetails
29 |
```

Results Messages

	newcon
1	AKSHYA INN,SINGLE
2	RUCHIKA,FAMILY

QUERY 2:

```
SELECT CONCAT(hotel_name,'-',hotel_rent) AS new2
FROM T10_hoteldetails
WHERE hotel_id= 203
```

OUTPUT:

SQLQuery_1 - localhost.master (Integrated) - Azure Data Studio					
localhost	SQLQuery_1 - localh...grated)				
Run Cancel Disconnect Change Connection T10_TRAVEL Explain Enable SQLCMD Export as Notebook					
<pre>27 SELECT CONCAT(hotel_name,'-',hotel_rent) AS new2 28 FROM T10_hoteldetails 29 WHERE hotel_id= 203</pre>					
Results Messages					
<table><thead><tr><th></th><th>new2</th></tr></thead><tbody><tr><td>1</td><td>RUCHIKA-500</td></tr></tbody></table>			new2	1	RUCHIKA-500
	new2				
1	RUCHIKA-500				

QUERY 3-

```
SELECT CONCAT(customer_id,'',customer_name) AS Full_details, customer_password, customer_mobile
FROM T10_customerdetailsNEW;
```

OUTPUT:

35 SELECT CONCAT(customer_id,'',customer_name) AS Full_details, customer_password, customer_mobile
36 FROM T10_customerdetailsNEW;

Results Messages

	Full_details	customer_password	customer_mobile
1	1CHAITRA	msaichatra	80815
2	2NESHA	msaichaitra	80888
3	3MANASA	hopefullife	9127
4	4RITHIKA	creativeme	989787
5	5ROJA	newroja	85674
6	6DEEPTI	rightdeepti	8083
7	7AMRUTHA	meamrutha	8082
8	8PRAGYA	newpragya	85654
9	9PRACHI	prachi	8523
10	10SRISTI	iknow	83444
11	11SRUTI	ifeelu	85687
12	12PREETA	makeme	83444
13	13KRITHIKA	livetofull	83674
14	14PRIYA	urgud	84321
15	15ROYA	dontno	85667
16	16JIYA	newparent	84493
17	17RIYA	lifeisme	85554
18	18SIRI	newsiri	86674
19	19SEEMA	newseema	87774
20	20VAISHNA...	newvaish	89874

3. Illustrate all the Comparison operator

1. “=”

QUERY 1 :

```
SELECT *FROM T10_hotelldetails
WHERE hotel_rent= 500
```

OUTPUT:

```
30
31 SELECT *FROM T10_hotelldetails
32 WHERE hotel_rent= 500
33
```

Results		Messages				
	hotel_id	hotel_name	hotel_type	hotel_rent	hotel_description	hotel_address
1	203	RUCHIKA	FAMILY	500	NULL	ONGOLE

QUERY 2:

```
SELECT *FROM T10_customerdetailsNEW
WHERE customer_name='chaitra'
```

OUTPUT:

```
39 SELECT *FROM T10_customerdetailsNEW
40 WHERE customer_name='chaitra'
```

Results		Messages					
	customer_id	customer_name	customer_mobile	customer_email	customer_username	customer_password	customer_address
1	1	CHAITRA	88815	chara	chaieddy	#saichatna	kaape
2	101	CHAITRA	88815	chara	chaieddy	#saichatna	kaape

2. “>”

QUERY 1:

```
SELECT *FROM T10_customerdetailsNEW
WHERE customer_id > 005
```

OUTPUT:

```
--  
39 SELECT *FROM T10_customerdetailsNEW  
40 WHERE customer_id > 005
```

Results		Messages					
	customer_id	customer_name	customer_mobile	customer_email	customer_username	customer_password	customer_address
1	6	DEEPTI	8083	deepti	life	rightdeepti	belgum
2	7	AMRUTHA	8082	amrutha	takerest	meamrutha	vizag
3	8	PRAGYA	85654	hemma	nayikahani	newpragya	manglore
4	9	PRACHI	8523	yashh	examalert	prachi	goa
5	10	SRISTI	83444	nika	newstat	iknow	hubli
6	11	SRUTI	85687	seersha	nestart	ifeelu	dharwad
7	12	PREETA	83444	fazila	neart	makeme	araku
8	13	KRITHIKA	83674	grahuri	art	livetofull	sangam
9	14	PRIYA	84321	nikitha	newstt	urgud	buchi
10	15	ROYA	85667	nisha	nestt	dontno	delhi
11	16	JIYA	84493	shrija	nstart	newparent	bombay
12	17	RIYA	85554	nisha	nert	lifeisme	dargling
13	18	SIRI	86674	rushi	newstar	newsiri	ongol
14	19	SEEMA	87774	sushma	freshlife	newseema	palem
15	20	VAISHNAVI	89874	aisha	freshstart	newvaish	banglore
16	30	SIRISHA	986674	krushi	knewstar	knewsiri	ungol
17	101	CHAITRA	80815	chara	chaieddy	msaichatra	kaapa
18	103	RAGHU	23333	harsh	rishi	raghuriss	kolkata

QUERY 2:

```
SELECT *FROM T10_hoteldetails  
WHERE hotel_rent >500
```

OUTPUT:

```
>>  
31 SELECT *FROM T10_hoteldetails  
32 WHERE hotel_rent >500  
33 |
```

Results		Messages				
	hotel_id	hotel_name	hotel_type	hotel_rent	hotel_description	hotel_address
1	97	AKSHYA INN	SINGLE	600	NULL	RAMAIIH COLONY

3. “<”

QUERY 1:

```
SELECT *FROM T10_hoteldetails  
WHERE hotel_rent < 900
```

```

31 SELECT *FROM T10_hoteldetails
32 WHERE hotel_rent < 900
33

```

Results Messages

	hotel_id	hotel_name	hotel_type	hotel_rent	hotel_description	hotel_address
1	97	AKSHYA INN	SINGLE	600	NULL	RAMAIIH COLONY
2	203	RUCHIKA	FAMILY	500	NULL	ONGOLE

QUERY 2:

```

SELECT *FROM T10_customerdetailsNEW
WHERE customer_id < 004

```

OUTPUT:

```

39 SELECT *FROM T10_customerdetailsNEW
40 WHERE customer_id < 004

```

Results Messages

	customer_id	customer_name	customer_mobile	customer_email	customer_username	customer_password	customer_address
1	1	CHAITRA	80815	chara	chaieddy	msaichatra	kaapa
2	2	NESHA	80888	chaitra	chaitrareddy	msaichaitra	kadapa
3	3	MANASA	9127	manasa	hello	hopefullife	kovur

4. “>=”

QUERY 1:

```

SELECT *FROM T10_customerdetailsNEW
WHERE customer_id >= 019

```

OUTPUT:

```

39 SELECT *FROM T10_customerdetailsNEW
40 WHERE customer_id >= 019

```

Results Messages

	customer_id	customer_name	customer_mobile	customer_email	customer_username	customer_password	customer_address
1	19	SEEMA	87774	sushma	freshlife	newseema	palem
2	20	VAISHNAVI	89874	aisha	freshstart	newvaish	bangalore
3	30	SIRISHA	986674	krushi	knewstar	knewsiri	ungol
4	101	CHAITRA	80815	chara	chaieddy	msaichatra	kaapa
5	103	RAGHU	23333	harsh	rishi	raghuriss	kolkata

QUERY 2:

```
SELECT *FROM T10_hoteldetails
WHERE hotel_rent >= 100
```

OUTPUT:

```
31 SELECT *FROM T10_hoteldetails
32 WHERE hotel_rent >= 100
33
```

Results

Messages

	hotel_id	hotel_name	hotel_type	hotel_rent	hotel_description	hotel_address
1	97	AKSHYA INN	SINGLE	600	NULL	RAMAIIH COLONY
2	203	RUCHIKA	FAMILY	500	NULL	ONGOLE

5. “<=”

QUERY 1:

```
SELECT *FROM T10_customerdetailsNEW
WHERE customer_id <= 019 AND customer_mobile <= 9992
```

OUTPUT:

```
--
39  SELECT *FROM T10_customerdetailsNEW
40  WHERE customer_id <= 019 AND customer_mobile <= 9992
41
```

Results

Messages

	customer_id	customer_name	customer_mobile	customer_email	customer_username	customer_password	customer_address
1	3	MANASA	9127	manasa	hello	hopefullife	kovur
2	6	DEEPTI	8083	deepti	life	rightdeepti	belgum
3	7	AMRUTHA	8082	amrutha	takerest	meamrutha	vizag
4	9	PRACHI	8523	yashh	examalert	prachi	goa

QUERY 2:

```
SELECT *FROM T10_customerdetailsNEW
WHERE customer_id <= 006
```

OUTPUT:

```
39 SELECT *FROM T10_customerdetailsNEW
40 WHERE customer_id <= 006
41
```

Results Messages

	customer_id	customer_name	customer_mobile	customer_email	customer_username	customer_password	customer_address
1	1	CHAITRA	80815	chara	chaieddy	msaichatra	kaapa
2	2	NESHA	80888	chaitra	chaitrareddy	msaichaitra	kadapa
3	3	MANASA	9127	manasa	hello	hopefullife	kovur
4	4	RITHIKA	989787	rithika	myself	creativeme	maduria
5	5	ROJA	85674	roja	newstart	newroja	ongole
6	6	DEEPTI	8083	deepti	life	rightdeepti	belgum

6. “<>”

QUERY 1:

```
SELECT *FROM T10_customerdetailsNEW
WHERE customer_id <> 002 AND customer_id < 005
```

OUTPUT:

```
39 SELECT *FROM T10_customerdetailsNEW
40 WHERE customer_id <> 002 AND customer_id < 005
41
```

Results Messages

	customer_id	customer_name	customer_mobile	customer_email	customer_username	customer_password	customer_address
1	1	CHAITRA	80815	chara	chaieddy	msaichatra	kaapa
2	3	MANASA	9127	manasa	hello	hopefullife	kovur
3	4	RITHIKA	989787	rithika	myself	creativeme	maduria

QUERY 2:

```
SELECT *FROM T10_bookingdetails
WHERE booking_id <> 203
```

OUTPUT:

```
39  SELECT *FROM T10_bookingdetails
40  WHERE booking_id <> 203
41  |
```

	booking_id	booking_hotel_id	booking_type	booking_date	booking_title	booking_description
1	12221	1	DUAL	5	chaitra	kadapa
2	12385	051	SINGLE	19	VACATION	NULL
3	123851	051	SINGLE	19	VACATION	NULL

4. Illustrate Logical operators except ANY, ALL and Like

1. AND

QUERY 1:

```
SELECT customer_id,customer_name,customer_mobile FROM T10_customerdetailsNEW
WHERE customer_username= 'chaitrareddy' AND customer_address='kadapa';
```

OUTPUT:



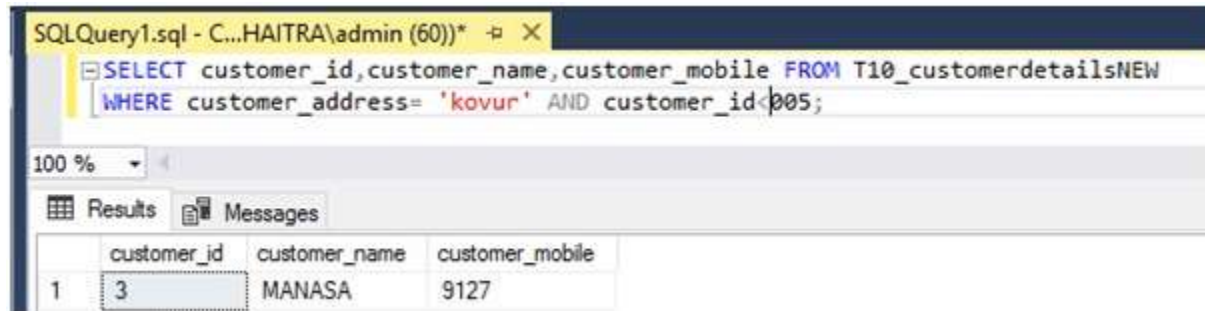
The screenshot shows a SQL query window with the following text: `SQLQuery1.sql - C:\...HAITRA\admin (60)) * - X`. The query is: `SELECT customer_id,customer_name,customer_mobile FROM T10_customerdetailsNEW WHERE customer_username= 'chaitrareddy' AND customer_address='kadapa';`. Below the query, the 'Results' tab is active, displaying a table with 3 columns: customer_id, customer_name, and customer_mobile. The first row contains the values 2, CHAITRA, and 80825.

	customer_id	customer_name	customer_mobile
1	2	CHAITRA	80825

QUERY 2:

```
SELECT customer_id,customer_name,customer_mobile FROM T10_customerdetailsNEW
WHERE customer_address= 'kovur' AND customer_id<005;
```

OUTPUT:



The screenshot shows a SQL query window titled 'SQLQuery1.sql - C...HAITRA\admin (60))' with a query that filters customers by address 'kovun' and id less than 105. The results pane shows a single row with customer_id 3, name MANASA, and mobile 9127.

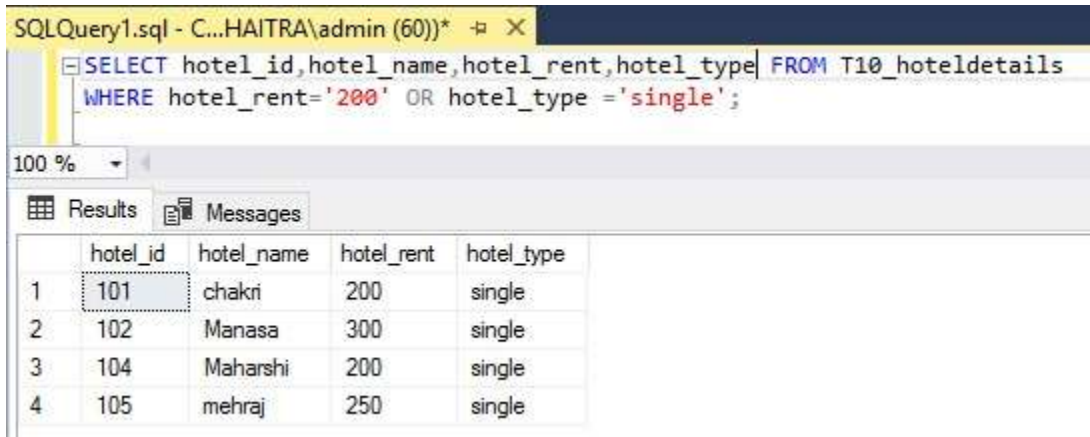
	customer_id	customer_name	customer_mobile
1	3	MANASA	9127

2. “OR”

QUERY 1:

```
SELECT hotel_id,hotel_name,hotel_rent,hotel_type FROM T10_hoteldetails
WHERE hotel_rent='200' OR hotel_type ='single';
```

OUTPUT:



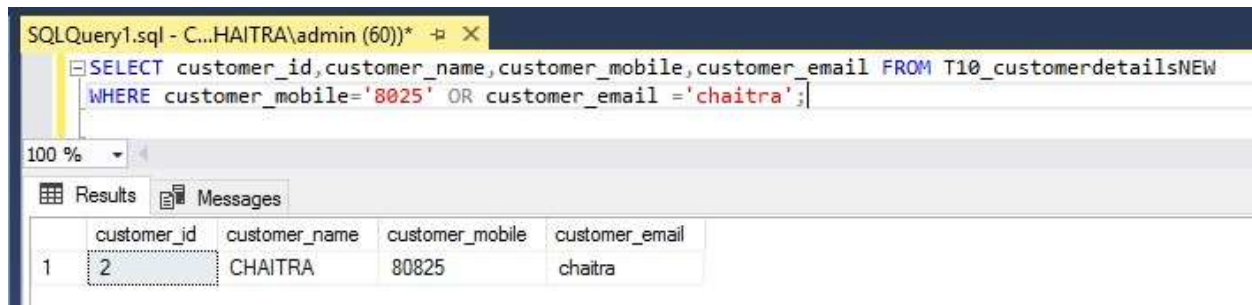
The screenshot shows a SQL query window titled 'SQLQuery1.sql - C...HAITRA\admin (60))' with a query that filters hotels by rent '200' or type 'single'. The results pane shows four rows of hotel data.

	hotel_id	hotel_name	hotel_rent	hotel_type
1	101	chakri	200	single
2	102	Manasa	300	single
3	104	Maharshi	200	single
4	105	mehraj	250	single

QUERY 2:

```
SELECT customer_id,customer_name,customer_mobile,customer_email
FROM T10_customerdetailsNEW
WHERE customer_mobile='8025' OR customer_email ='chaitra';
```

OUTPUT:



The screenshot shows a SQL query window with the following query: `SELECT customer_id, customer_name, customer_mobile, customer_email FROM T10_customerdetailsNEW WHERE customer_mobile='8025' OR customer_email='chaitra';` The results pane shows a single row with the following data:

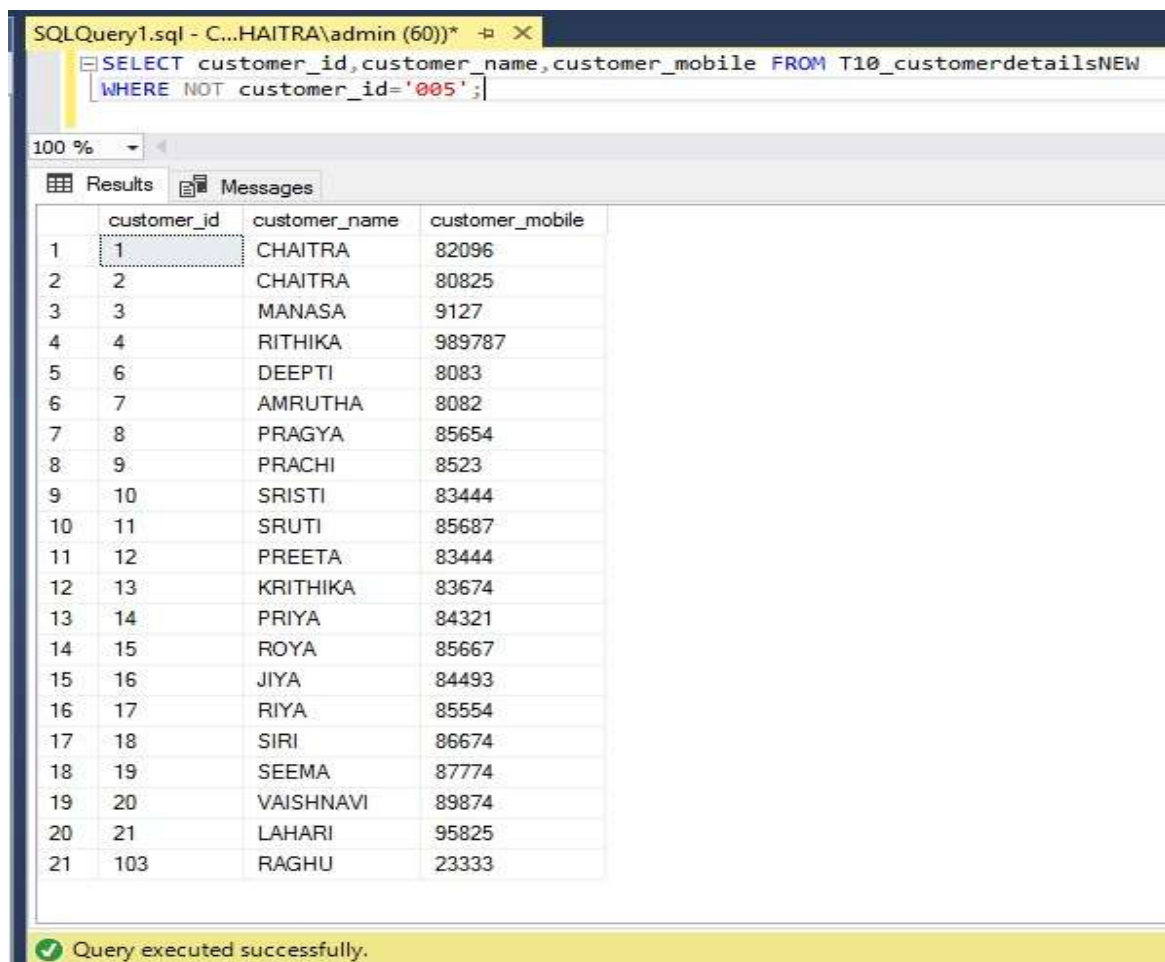
	customer_id	customer_name	customer_mobile	customer_email
1	2	CHAITRA	80825	chaitra

3. “NOT”

QUERY 1:

```
SELECT customer_id, customer_name, customer_mobile FROM T10_customerdetailsNEW  
WHERE NOT customer_id='005';
```

OUTPUT:



The screenshot shows a SQL query window with the following query: `SELECT customer_id, customer_name, customer_mobile FROM T10_customerdetailsNEW WHERE NOT customer_id='005';` The results pane shows a list of 21 rows. The first row is highlighted. The data is as follows:

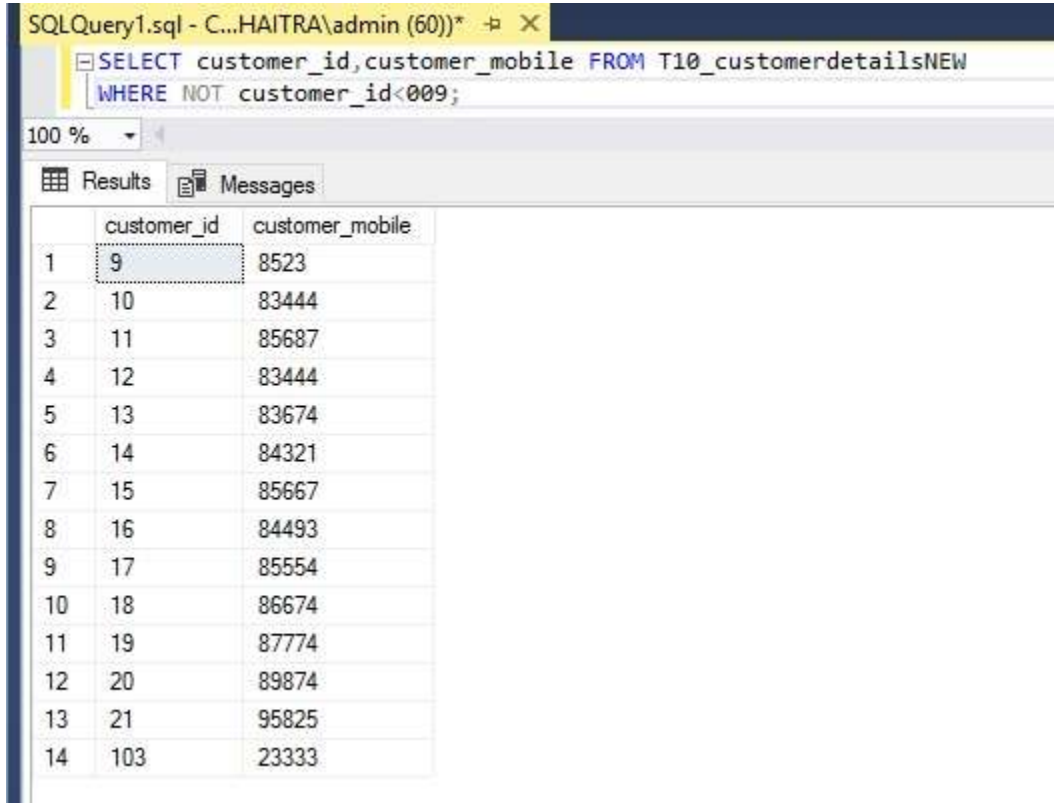
	customer_id	customer_name	customer_mobile
1	1	CHAITRA	82096
2	2	CHAITRA	80825
3	3	MANASA	9127
4	4	RITHIKA	989787
5	6	DEEPTI	8083
6	7	AMRUTHA	8082
7	8	PRAGYA	85654
8	9	PRACHI	8523
9	10	SRISTI	83444
10	11	SRUTI	85687
11	12	PREETA	83444
12	13	KRITHIKA	83674
13	14	PRIYA	84321
14	15	ROYA	85667
15	16	JIYA	84493
16	17	RIYA	85554
17	18	SIRI	86674
18	19	SEEMA	87774
19	20	VAISHNAVI	89874
20	21	LAHARI	95825
21	103	RAGHU	23333

Query executed successfully.

QUERY 2:

```
SELECT customer_id, customer_mobile FROM T10_customerdetailsNEW  
WHERE NOT customer_id < 009;
```

OUTPUT:



SQLQuery1.sql - C:\HAITRA\admin (60)) * X

```
SELECT customer_id, customer_mobile FROM T10_customerdetailsNEW  
WHERE NOT customer_id < 009;
```

100 %

Results Messages

	customer_id	customer_mobile
1	9	8523
2	10	83444
3	11	85687
4	12	83444
5	13	83674
6	14	84321
7	15	85667
8	16	84493
9	17	85554
10	18	86674
11	19	87774
12	20	89874
13	21	95825
14	103	23333

4. “IN”

QUERY 1:

```
SELECT * FROM T10_customerdetailsNEW  
WHERE customer_id IN (002, 006);
```

OUTPUT:

```
52 SELECT *FROM T10_customerdetailsNEW
53 WHERE customer_id IN(002,006);
54
```

Results Messages

	customer_id	customer_name	customer_mobile	customer_email	customer_username	customer_password	customer_address
1	2	NESHA	80888	chaitra	chaitrareddy	msaichaitra	kadapa
2	6	DEEPTI	8083	deepti	life	rightdeepti	belgum

QUERY 2:

```
SELECT *FROM T10_bookingdetails
WHERE booking_id IN(12221);
```

OUTPUT:

```
39 SELECT *FROM T10_bookingdetails
40 WHERE booking_id IN(12221);
41
```

Results Messages

	booking_id	booking_hotel_id	booking_type	booking_date	booking_title	booking_description
1	12221	1	DUAL	5	chaitra	kadapa

5. “BETWEEN”

QUERY 1:

```
SELECT *FROM T10_customerdetailsNEW
WHERE customer_id BETWEEN 002 AND 007
```

OUTPUT:

```
51 SELECT *FROM T10_customerdetailsNEW
52 WHERE customer_id BETWEEN 002 AND 007
53
```

Results Messages

	customer_id	customer_name	customer_mobile	customer_email	customer_username	customer_password	customer_address
1	2	NESHA	80888	chaitra	chaitrareddy	msaichaitra	kadapa
2	3	MANASA	9127	manasa	hello	hopefullife	kovur
3	4	RITHIKA	989787	rithika	myself	creativeme	maduria
4	5	ROJA	85674	roja	newstart	newroja	ongole
5	6	DEEPTI	8083	deepti	life	rightdeepti	belgum
6	7	AMRUTHA	8082	amrutha	takerest	meamrutha	vizag

QUERY 2:

```
SELECT *FROM T10_bookingdetails
WHERE booking_id BETWEEN 1222 AND 122203
```

OUTPUT:

```
39 SELECT *FROM T10_bookingdetails
40 WHERE booking_id BETWEEN 1222 AND 122203
41
```

Results Messages

	booking_id	booking_hotel_id	booking_type	booking_date	booking_title	booking_description
1	12221	1	DUAL	5	chaitra	kadapa
2	12385	051	SINGLE	19	VACATION	NULL