

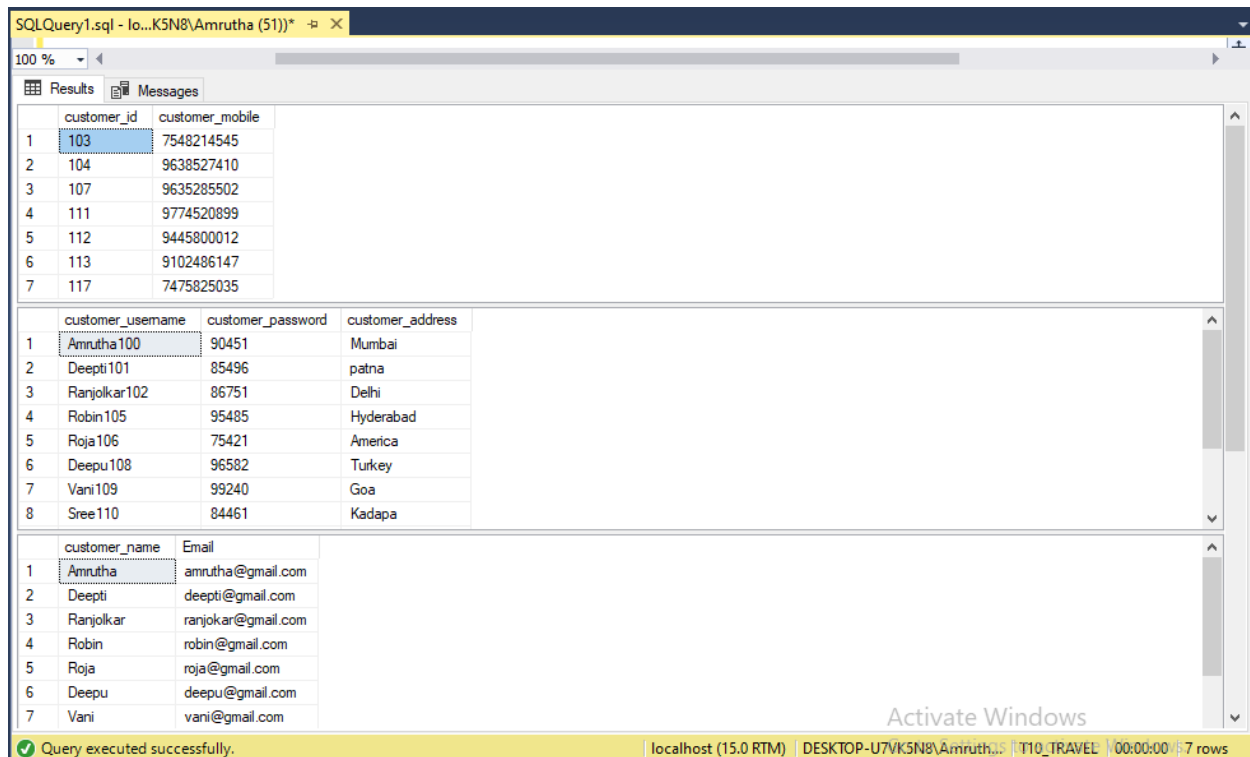
DBMS LAB ASSIGNMENT 4

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19BCS048

1. Write 5 Nested Queries for travel database.

```
SELECT customer_id, customer_mobile from T10_customerdetails WHERE customer_id IN  
(SELECT customer_id from T10_bookingdetails Where booking_type ='offline')  
SELECT customer_username, customer_password, customer_address from T10_customerdetails  
WHERE customer_id IN (SELECT customer_id from T10_bookingdetails Where booking_type  
='online')  
SELECT customer_name, Email from T10_customerdetails WHERE customer_id IN (SELECT  
customer_id from T10_bookingdetails Where booking_type ='online')  
SELECT booking_id, booking_hotel_id from T10_bookingdetails WHERE booking_id IN  
(SELECT booking_id from T10_bookingdetails Where booking_title ='single')  
SELECT booking_id, booking_type, booking_date from T10_bookingdetails WHERE  
booking_id IN (SELECT booking_id from T10_bookingdetails Where booking_title ='single')
```



The screenshot shows a database application window titled "SQLQuery1.sql - lo...K5N8\Amrutha (51))". It displays three query results in a table format. The first table has columns "customer_id" and "customer_mobile". The second table has columns "customer_username", "customer_password", and "customer_address". The third table has columns "customer_name" and "Email". The status bar at the bottom indicates "Query executed successfully." and "7 rows".

customer_id	customer_mobile
103	7548214545
104	9638527410
107	9635285502
111	9774520899
112	9445800012
113	9102486147
117	7475825035

customer_username	customer_password	customer_address
Amrutha100	90451	Mumbai
Deepti101	85496	patna
Ranjolkar102	86751	Delhi
Robin105	95485	Hyderabad
Roja106	75421	America
Deepu108	96582	Turkey
Vani109	99240	Goa
Sree110	84461	Kadapa

customer_name	Email
Amrutha	amrutha@gmail.com
Deepti	deepti@gmail.com
Ranjolkar	ranjolkar@gmail.com
Robin	robin@gmail.com
Roja	roja@gmail.com
Deepu	deepu@gmail.com
Vani	vani@gmail.com

SQLQuery1.sql - lo...K5N8\Amrutha (51)) * X

100 %

Results Messages

6	Ueepu	deepu@gmail.com
7	Vani	vani@gmail.com
8	Sree	sree@gmail.com
9	Bob	bob@gmail.com
10	Rocky	rocky@gmail.com
11	Olivia	olivia@gmail.com
12	Mia	mia@gmail.com

	booking_id	booking_hotel_id
12	12	1000
13	13	1000
14	14	1000
15	15	1000
16	16	1000
17	17	1000
18	18	1000
19	19	1000

	booking_id	booking_type	booking_date
1	1	online	20/01/2020
2	2	online	20/01/2020
3	3	online	20/01/2020
4	4	offline	20/01/2020
5	5	offline	20/01/2020
6	6	online	20/01/2020
7	7	online	20/01/2020
8	8	offline	20/01/2020

Activate Windows

Query executed successfully. | localhost (15.0 RTM) | DESKTOP-U7VK5N8\Amrutha... | T10_TRAVEL | 00:00:00 | 7 rows

2.Illustrate how we can use CONCAT and AS operators in SQL

USE T10_TRAVEL

SELECT CONCAT(customer_name, ' ', lastname) AS full_name FROM T10_customerdetails

SELECT customer_id, customer_mobile AS contact_details FROM T10_customerdetails;

SELECT TOP 5 CONCAT(booking_title, ', ', booking_type) AS booking FROM T10_bookingdetails
WHERE booking_title = 'single';

SQLQuery1.sql - lo...K5N8\Amrutha (51)) * X

100 %

Results Messages

SELECT CONCAT(customer_name, ' ', lastname) AS full_name FROM T10_customerdetails
SELECT customer_id, customer_mobile AS contact_details FROM T10_customerdetails;

	full_name
1	Amrutha
2	Deepti
3	Ranjolkar
4	Chaitra
5	leesha
6	Robin
7	Roja
8	Keerthi
9	Deepu

	customer_id	contact_details
1	100	904517852
2	101	8549617542
3	102	8675142960
4	103	7548214545
5	104	9638527410
6	105	9548525502
7	106	7542154150
8	107	9635285502
9	108	9658254110

	booking
1	single, online
2	single, online
3	single, online
4	single, offline

Activate Windows

Query executed successfully. | localhost (15.0 RTM) | DESKTOP-U7VK5N8\Amrutha... | T10_TRAVEL | 00:00:00 | 49 rows

3. Illustrate all the Comparison operators

```
SELECT customer_id, customer_name, lastname FROM T10_customerdetails WHERE age = 20;
```

```
SELECT customer_id FROM T10_customerdetails WHERE age = '20';
```

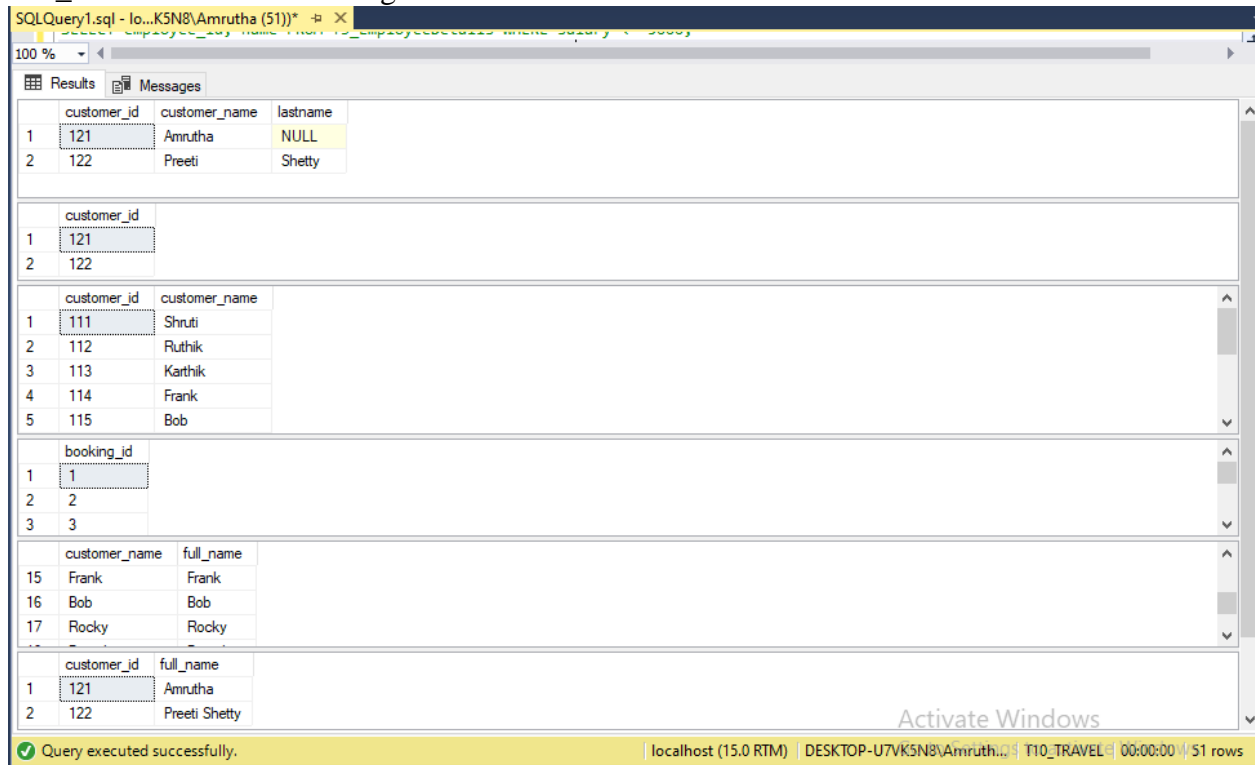
```
SELECT customer_id, customer_name FROM T10_customerdetails WHERE customer_id > 110;
```

```
SELECT booking_id FROM T10_bookingdetails WHERE customer_id < 110;
```

```
SELECT customer_name, CONCAT(customer_name, ' ', lastname) AS full_name FROM T10_customerdetails
```

```
SELECT customer_id, CONCAT(customer_name, ' ', lastname) AS full_name FROM T10_customerdetails where age >=20
```

```
SELECT customer_id, CONCAT(customer_name, ' ', lastname) AS full_name FROM T10_customerdetails where age <=30
```



The screenshot shows a SQL query window with the following queries and results:

Query 1: `SELECT Employee_id, name FROM T10_EmployeeDetails where salary < 5000;`

Query 2: `SELECT customer_id, customer_name, lastname FROM T10_customerdetails WHERE age = 20;`

customer_id	customer_name	lastname
121	Amrutha	NULL
122	Preeti	Shetty

Query 3: `SELECT customer_id FROM T10_customerdetails WHERE age = '20';`

customer_id
121
122

Query 4: `SELECT customer_id, customer_name FROM T10_customerdetails WHERE customer_id > 110;`

customer_id	customer_name
111	Shruti
112	Ruthik
113	Karthik
114	Frank
115	Bob

Query 5: `SELECT booking_id FROM T10_bookingdetails WHERE customer_id < 110;`

booking_id
1
2
3

Query 6: `SELECT customer_name, CONCAT(customer_name, ' ', lastname) AS full_name FROM T10_customerdetails`

customer_name	full_name
Frank	Frank
Bob	Bob
Rocky	Rocky

Query 7: `SELECT customer_id, CONCAT(customer_name, ' ', lastname) AS full_name FROM T10_customerdetails where age >=20`

customer_id	full_name
121	Amrutha
122	Preeti Shetty

Query 8: `SELECT customer_id, CONCAT(customer_name, ' ', lastname) AS full_name FROM T10_customerdetails where age <=30`

customer_id	full_name
121	Amrutha
122	Preeti Shetty

Query executed successfully. | localhost (15.0 RTM) | DESKTOP-U7VK5N8\Amrutha | T10_TRAVEL | 00:00:00 | 51 rows

4. Illustrate Logical operators except ANY, ALL and LIKE

```
SELECT customer_name FROM T10_customerdetails  
WHERE customer_id = ANY (SELECT customer_id FROM T10_bookingdetails WHERE  
booking_title='single')
```

```
SELECT customer_name, customer_address FROM T10_customerdetails  
WHERE customer_id = ANY (SELECT customer_id FROM T10_bookingdetails WHERE  
booking_type='online')
```

```
SELECT customer_mobile, customer_name FROM T10_customerdetails
```

```

WHERE customer_id = ALL(SELECT customer_id FROM T10_bookingdetails WHERE
booking_type='online')
SELECT customer_username, customer_name FROM T10_customerdetails
WHERE customer_id = ALL(SELECT customer_id FROM T10_bookingdetails WHERE
booking_title='single')
SELECT customer_name, customer_address FROM T10_customerdetails
WHERE customer_name LIKE '%a%'
SELECT customer_id, Email FROM T10_customerdetails
WHERE customer_name LIKE '%an%'
SELECT customer_name, customer_address FROM T10_customerdetails
WHERE customer_name LIKE '_a%'

```

SQLQuery1.sql - lo...K5N8\Amrutha (51))*

100 %

Results

Messages

5	roja	America
6	Deepu	Turkey
7	Vani	Goa
8	Sree	Kadapa
9	Bob	China
10	Rocky	Gujarat
11	Olivia	Mumbai
12	Mia	Mumbai

customer_mobilecustomer_name

customer_usernamecustomer_name

	customer_name	customer_address
5	Roja	America
6	Vani	Goa
7	Karthik	Belgum
8	Frank	Srinagar
9	Daniel	Mumbai
10	Olivia	Mumbai

	customer_id	Email
1	102	ranjokar@gmail.com
2	109	vani@gmail.com
3	114	frank@gmail.com
4	117	daniel@gmail.com

Activate Windows

Query executed successfully.

localhost (15.0 RTM) | DESKTOP-U7VK5N8\Amrutha... | T10_TRAVEL | 00:00:00 | 47 rows