

DBMS LAB ASSIGNMENT 4

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Q1) Write 5 Nested Queries for travel database.

QUERY:

**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, customer_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 ='double')**

**SELECT booking_id,booking_type, booking_date from
T10_bookingdetails WHERE booking_id IN (SELECT booking_id from
T10_bookingdetails Where booking_title ='double')**

OUTPUT:

SQLQuery2.sql - DE...IUD4T,DEEPTI (60)) * SQLQuery1.sql - DE...IUD4T,DEEPTI (59))

```

SELECT customer_id, customer_mobile from T10_customerdetails WHERE customer_id IN (SELECT customer_id from T10_bookingdetails WHERE booking_id IN (SELECT booking_id from T10_bookingdetails WHERE booking_type = 'T10_bookingdetails'))
SELECT customer_username, customer_password, customer_address from T10_customerdetails WHERE customer_id IN (SELECT customer_id from T10_bookingdetails WHERE booking_id IN (SELECT booking_id from T10_bookingdetails WHERE booking_type = 'T10_bookingdetails'))
SELECT customer_name, customer_email from T10_customerdetails WHERE customer_id IN (SELECT customer_id from T10_bookingdetails WHERE booking_id IN (SELECT booking_id from T10_bookingdetails WHERE booking_type = 'T10_bookingdetails'))
SELECT booking_id, booking_hotel_id from T10_bookingdetails WHERE booking_id IN (SELECT booking_id from T10_bookingdetails WHERE booking_type = 'T10_bookingdetails')
SELECT booking_id, booking_type, booking_date from T10_bookingdetails WHERE booking_id IN (SELECT booking_id from T10_bookingdetails WHERE booking_type = 'T10_bookingdetails')

```

145 %

Results Messages

customer_id	customer_mobile
4	9663412002
6	9456387432
8	9999417432
9	9663421342
11	9090909092
13	9663463123

customer_username	customer_password	customer_address
Amrutha100	90451	Mumbai
deepti	bat123	jaipur
rosey234	rosilla	banglore
reddy123	manchi123	ongole
@1234	deepti890	belagavi
lizara@123	lisa@lizard	chikoddi
laxmi@myface	akhile12	udaipur
kartikmama@12	kartik@123	banglore

customer_name	customer_email
Amrutha	amrutha@gmail.com
deepti	deepti@gmail.com
rosey	roja123a@gmail.com
chaitra	chaitra@gmail.com
deepti	deepti@gmail.com
lisa	lisa12@gmail.com
akhilp	akhilp@gmail.com
pujara	pujara@gmail.com

Query executed successfully. DESKTOP-JTIUD4T (15.0 RTM) DESKTOP-JTIUD4T,DEEPTI... T10_TRAVEL 00:00:00 70 rows

SQLQuery2.sql - DE...IUD4T,DEEPTI (60)) * SQLQuery1.sql - DE...IUD4T,DEEPTI (59))

```

SELECT customer_id, customer_mobile from T10_customerdetails WHERE customer_id IN (SELECT customer_id from T10_bookingdetails WHERE booking_id IN (SELECT booking_id from T10_bookingdetails WHERE booking_type = 'T10_bookingdetails'))
SELECT customer_username, customer_password, customer_address from T10_customerdetails WHERE customer_id IN (SELECT customer_id from T10_bookingdetails WHERE booking_id IN (SELECT booking_id from T10_bookingdetails WHERE booking_type = 'T10_bookingdetails'))
SELECT customer_name, customer_email from T10_customerdetails WHERE customer_id IN (SELECT customer_id from T10_bookingdetails WHERE booking_id IN (SELECT booking_id from T10_bookingdetails WHERE booking_type = 'T10_bookingdetails'))
SELECT booking_id, booking_hotel_id from T10_bookingdetails WHERE booking_id IN (SELECT booking_id from T10_bookingdetails WHERE booking_type = 'T10_bookingdetails')
SELECT booking_id, booking_type, booking_date from T10_bookingdetails WHERE booking_id IN (SELECT booking_id from T10_bookingdetails WHERE booking_type = 'T10_bookingdetails')

```

145 %

Results Messages

customer_id	customer_mobile
4	9663412002
6	9456387432
8	9999417432
9	9663421342
11	9090909092
13	9663463123

customer_username	customer_password	customer_address
Amrutha100	90451	Mumbai
deepti	bat123	jaipur
rosey234	rosilla	banglore
reddy123	manchi123	ongole
@1234	deepti890	belagavi
lizara@123	lisa@lizard	chikoddi
laxmi@myface	akhile12	udaipur
kartikmama@12	kartik@123	banglore

customer_name	customer_email
Amrutha	amrutha@gmail.com
deepti	deepti@gmail.com
rosey	roja123a@gmail.com
chaitra	chaitra@gmail.com
deepti	deepti@gmail.com
lisa	lisa12@gmail.com
akhilp	akhilp@gmail.com
pujara	pujara@gmail.com

Query executed successfully. DESKTOP-JTIUD4T (15.0 RTM) DESKTOP-JTIUD4T,DEEPTI... T10_TRAVEL 00:00:00 70 rows

SQLQuery2.sql - DE...IUD4T\DEEPTI (60))

SQLQuery1.sql - DE...IUD4T\DEEPTI (59))

145 %

Results Messages

2	deepthi	deepthi@gmail.com
3	rosy	roja123a@gmail.c...
4	chitra	chitra@gmail.com
5	deepthi	deepthi@gmail.com
6	lisa	lisa12@gmail.com
7	akhilp	akhilp@gmail.com
8	karthik	pujara@gmail.com

booking_id	booking_hotel_id
4	2000
5	2000
6	2000
7	2000
8	2000
9	2000
10	2000
11	2000

booking_id	booking_type	booking_date
1	online	22/02/2021
2	online	22/02/2021
3	online	22/02/2021
4	offline	22/02/2021
5	online	22/02/2021
6	offline	22/02/2021
7	online	22/02/2021
8	offline	22/02/2021

Query executed successfully.

DESKTOP-JTIUD4T (15.0 RTM)

DESKTOP-JTIUD4T\DEEPTI...

T10_TRAVEL

00:00:00

70 rows

Q2: Illustrate how we can use CONCAT and AS operators in SQL.

QUERY:

use T10_TRAVEL

/*Alter table dbo.T10_customerdetails

UPDATE T10_customerdetails

set lastname='shetty' where customer_id =100*/

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 = 'double';

OUTPUT:

SQLQuery2.sql - DE...IUD4T\DEEPTI (60)) * X SQLQuery1.sql - DE...IUD4T\DEEPTI (59))

```

use T10_TRAVEL
/*Alter table dbo.T10_customerdetails
UPDATE T10_customerdetails
set lastname='shetty' where customer_id =100*/
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 =

```

145 %

Results Messages

	full_name
1	Amrutha Shetty
2	deepti
3	rosy
4	mankena
5	chaltra
6	shruti
7	deepti
8	laxmi

	customer_id	contact_details
1	1	904517852
2	2	9663410002
3	3	9563617876
4	4	9663412002
5	5	9087654321
6	6	9456387432
7	7	9656432890

Query executed successfully. DESKTOP-JTIUD4T (15.0 RTM) DESKTOP-JTIUD4T\DEEPTI... T10_TRAVEL 00:00:00 51 rows

SQLQuery2.sql - DE...IUD4T\DEEPTI (60)) * X SQLQuery1.sql - DE...IUD4T\DEEPTI (59))

145 %

Results Messages

	full_name
16	mia
17	sanjana
18	Amruthakvi
19	dani
20	Amrutha
21	reeti Shetty
22	Amrutha
23	Amrutha

	customer_id	contact_details
15	15	9660017432
16	16	9678543232
17	18	9028453442
18	19	9663017432
19	20	9623457432
20	24	9045178502
21	25	9196947530
22	100	904517852
23	10000	9663417432

	booking
1	double, online
2	double, online
3	double, online
4	double, offline
5	double, online

Query executed successfully. DESKTOP-JTIUD4T (15.0 RTM) DESKTOP-JTIUD4T\DEEPTI... T10_TRAVEL 00:00:00 51 rows

Q3) Illustrate all the Comparison operators .

QUERY:

**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**

OUTPUT:

The screenshot shows a SQL query editor with the following queries:

```
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 results pane shows the following data:

customer_id	customer_name	lastname
24	Amrutha	NULL
25	reeti	Shetty

customer_id
24
25

customer_id	customer_name
10000	Amrutha

booking_id
1
2
3
4
5
6
7

Query executed successfully. DESKTOP-JTIUD4T (15.0 RTM) | DESKTOP-JTIUD4T\DEEPTI... | T10 TRAVEL | 00:00:00 | 51 rows

customer_id	customer_name	lastname
1	24	Amrutha
2	25	reeti Shetty

customer_id
1
2

customer_id	customer_name
1	10000
	Amrutha

booking_id
12
13
14
15
16
17
18
19
20

customer_name	full_name
1	Amrutha
2	Amrutha Shetty
3	deepthi
4	rosy
5	markena
6	chaitra
7	shruti

Q4) Illustrate Logical operators except ANY, ALL and LIKE.

QUERY:

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%'

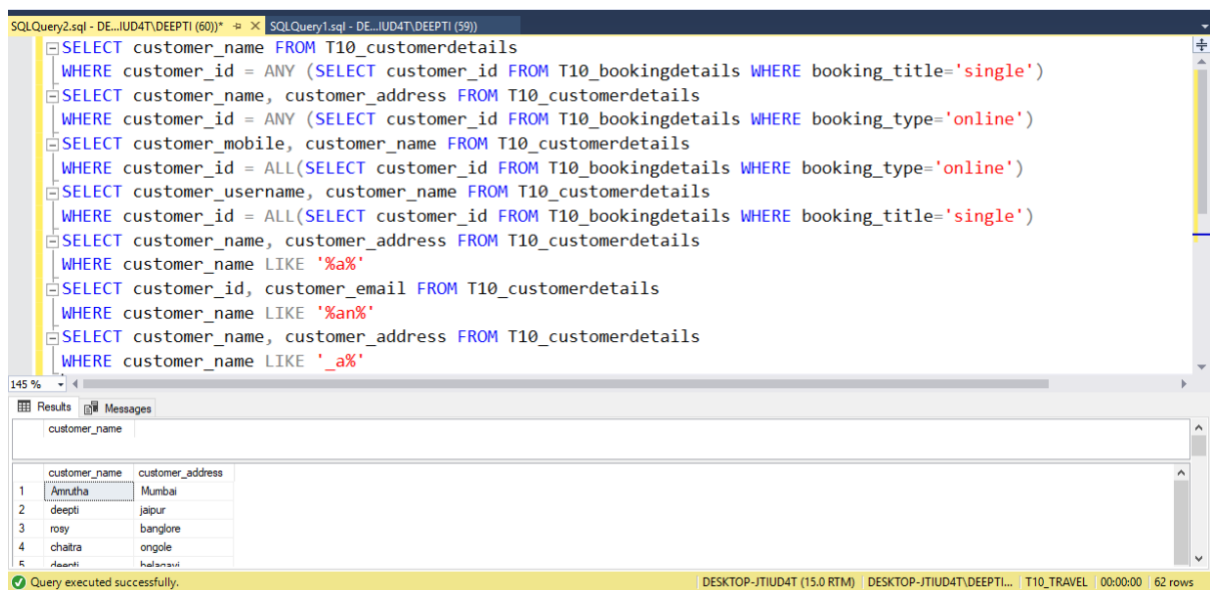
SELECT customer_id, customer_email FROM T10_customerdetails

WHERE customer_name LIKE '%an%'

SELECT customer_name, customer_address FROM
T10_customerdetails

WHERE customer_name LIKE '_a%'

OUTPUT:



The screenshot shows a SQL query editor with a list of queries. The first query is selected, and its results are displayed in a table below. The table has two columns: customer_name and customer_address. The results are as follows:

customer_name	customer_address
1 Anurtha	Mumbai
2 deepthi	jaipur
3 rosy	banglore
4 chaitra	ongole
5 Ananti	halanasi

The status bar at the bottom indicates that the query was executed successfully and returned 62 rows.

customer_name	
1	Amrutha
2	deepthi
3	rosy
4	chatra
5	deepthi
6	lisa
7	akhilap
8	kartik
customer_mobile	
9	ieesha@1gg
10	lizars@123
11	lammu123
12	laxmi@myface
13	sejal@123
14	kartikmama@12
15	uma@123
16	@132ni
customer_username	
9	ieesha
10	lisa
11	Ammu
12	akhilap
13	sejal
14	kartik
15	uma
16	mia
customer_name	
3	chatra
	ongole

Query executed successfully.

customer_name	
12	laxmi@myface
13	sejal@123
14	kartikmama@12
15	uma@123
16	@132ni
customer_name	
3	chatra
4	laxmi
5	ieesha
6	lisa
7	Ammu
8	akhilap
9	sejal
10	kartik
customer_email	
1	mankena@gmail.com
2	sanjana@gmail.com
3	dani@gmail.com
customer_name	
1	mankena
2	laxmi
3	kartik
4	sanjana
5	dani

Query executed successfully.