

NAME: SURYAWANSHI RANDHEER AJIT

REG.NO. :19BCS104

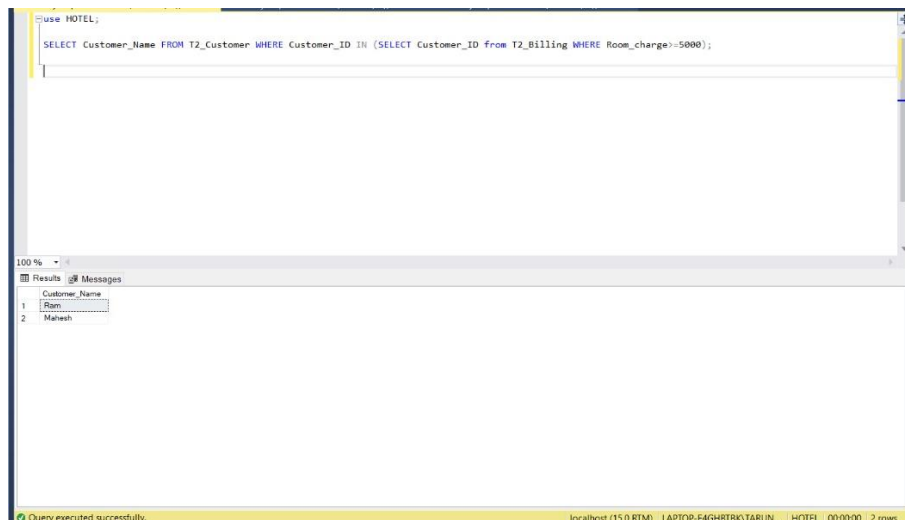
SUBJECT : DBMS LAB ASSIGNMENT

GROUP NUMBER: 2

Q1) 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.

SQL QUERIES OUTPUT:

QUERY 1 :



```
USE HOTEL;

SELECT Customer_Name FROM T2_Customer WHERE Customer_ID IN (SELECT Customer_ID FROM T2_Billing WHERE Room_charge >= 5000);

SELECT CONCAT(Check_in_date, ',', Check_out_date) AS Stay_in_hotel FROM T2_Reservation WHERE Room_number IN
(SELECT Room_number FROM T2_Rooms WHERE Room_Type = 'Deluxe');
```

100 %

Results Messages

	Stay_in_hotel
1	1999-02-03,1999-02-22
2	1999-04-03,1999-04-04

QUERY 3 :

```
USE HOTEL;

SELECT Customer_Name FROM T2_Customer WHERE Customer_ID IN (SELECT Customer_ID FROM T2_Billing WHERE Room_charge >= 5000);

SELECT CONCAT(Check_in_date, ',', Check_out_date) AS Stay_in_hotel FROM T2_Reservation WHERE Room_number IN
(SELECT Room_number FROM T2_Rooms WHERE Room_Type = 'Deluxe');

SELECT Reservation_date FROM T2_Reservation WHERE Reservation_number IN (SELECT Reservation_number FROM T2_SERVICES WHERE Service_cost >= 3000);
```

100 %

Results Messages

	Reservation_date
1	1999-02-03
2	1999-04-01

```
use HOTEL;

SELECT Customer_Name FROM T2_Customer WHERE Customer_ID IN (SELECT Customer_ID from T2_Billing WHERE Room_charge>=5000);

--SELECT CONCAT(Check_in_date,',',Check_out_date) AS Stay_in_hotel FROM T2_Reservation WHERE Room_number IN
--(SELECT Room_number FROM T2_Rooms WHERE Room_Type='Deluxe');

SELECT Reservation_date FROM T2_Reservation WHERE Reservation_number IN (SELECT Reservation_number FROM T2_SERVICES WHERE Service_cost > 3000);

--SELECT Customer_Name FROM T2_Customer WHERE Customer_ID IN
--(SELECT Customer_ID FROM T2_Rooms WHERE Room_number IN
--(SELECT Room_number FROM T2_Reservation));
```

100 %

Results Messages

	Customer_Name
1	Lofin
2	Ran
3	Prabha

QUERY 5

```
use HOTEL;

SELECT Customer_Name FROM T2_Customer WHERE Customer_ID IN (SELECT Customer_ID from T2_Billing WHERE Room_charge>=5000);

--SELECT CONCAT(Check_in_date,',',Check_out_date) AS Stay_in_hotel FROM T2_Reservation WHERE Room_number IN
--(SELECT Room_number FROM T2_Rooms WHERE Room_Type='Deluxe');

SELECT Reservation_date FROM T2_Reservation WHERE Reservation_number IN (SELECT Reservation_number FROM T2_SERVICES WHERE Service_cost > 3000);

--SELECT Customer_Name FROM T2_Customer WHERE Customer_ID IN
--(SELECT Customer_ID FROM T2_Rooms WHERE Room_number IN
--(SELECT Room_number FROM T2_Reservation));

SELECT COUNT(Customer_ID) AS Ordered_customers FROM T2_Reservation WHERE Reservation_number IN (SELECT Reservation_number FROM T2_SERVICES
```

100 %

Results Messages

	Ordered_customers
1	3

SQL QUERIES

QUERY FOR CONACT

```
USE HOTEL;

SELECT CONCAT(DNO,' ',Street,' ',City,' ',State) AS Customer_permanent_address FROM T2_CUSTOMER_ADDRESS;

SELECT CONCAT(Room_number,' ',Room_location,' ') AS Room_address FROM T2_Rooms;
```

100 %

Results Messages

Room_address
1 block-2
2 block-1
3 block-2

QUERY FOR AS

```
USE HOTEL;

SELECT CONCAT(DNO,' ',Street,' ',City,' ',State) AS Customer_permanent_address FROM T2_CUSTOMER_ADDRESS;

SELECT CONCAT(Room_number,' ',Room_location,' ') AS Room_address FROM T2_Rooms;

SELECT empname AS Waiters FROM emp_info WHERE Salary > 7000;
```

00 %

Results Messages

Waiters
1 Max
2 Max

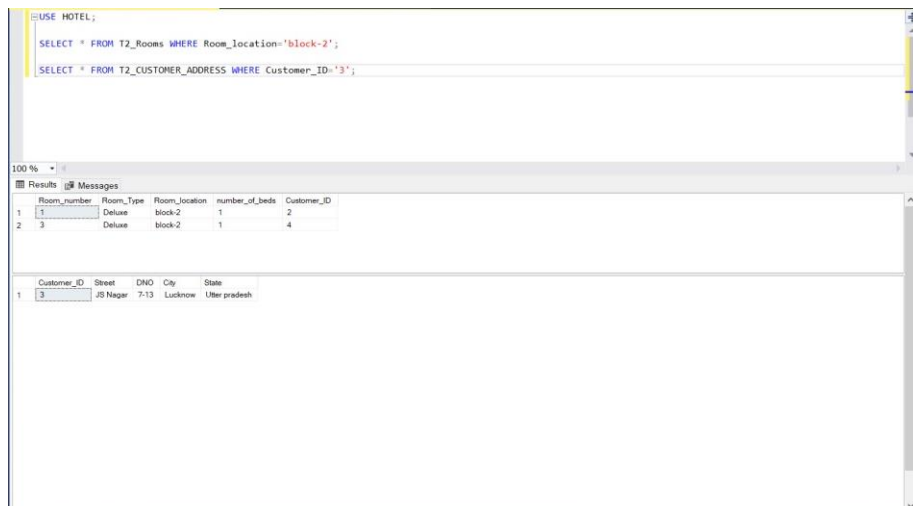




Q3) Illustrate all the Comparison operator (2 queries for each operator)

The comparison operators are =,>,<,>=,<=,<>(not)

QUERIES FOR =



SELECT * FROM T2_Billing WHERE Room_charge > '2500';
SELECT * FROM T2_Reservation WHERE Number_of_guests > '3';

100 %

Results

Messages

Billing_#	Room_charge	Credit_card	Payment_date	Customer_ID
1	2	5000	9876543211	2021-05-05
2	3	6000	1234567895	2021-09-30
3	4	3000	5548666666	2021-12-11

Reservation_number	Check_in_date	Check_out_date	Number_of_guests	Reservation_date	Customer_ID	Room_number
1	1	1999-02-03	1999-02-22	5	1999-02-01	2
2	2	1999-02-03	1999-02-22	4	1999-02-03	1

QUERIES FOR <

```
SELECT * FROM T2_Billing WHERE Room_charge > '2500';
SELECT * FROM T2_Reservation WHERE Number_of_guests > '3';
SELECT * FROM T2_Customer WHERE Zipcode < '534203';
SELECT * FROM T2_CUSTOMER_ADDRESS WHERE Customer_ID < '4';
```

100 %

Results Messages

Customer_ID	Customer_Name	Phone_number	City	State	Zipcode	Email_ID
1	Luffin	868543748	Nagpur	MP	534201	luff@gmail.com
2	Prabha	868543766	Bengaluru	Karnataka	534201	prab@gmail.com

Customer_ID	Street	DNO	City	State
1	RP NAGAR	7-11	Nagpur	Madhya pradesh
2	Sriam nagar	9-12	hyderabad	Telangana
3	JB Nagar	7-13	Lucknow	Uttar pradesh

```

SELECT * FROM T2_Billing WHERE Room_charge > '2500';
SELECT * FROM T2_Reservation WHERE Number_of_guests > '3';
SELECT * FROM T2_Customer WHERE Zipcode < '534203';
SELECT * FROM T2_CUSTOMER_ADDRESS WHERE Customer_ID < '4';
SELECT * FROM T2_SERVICES WHERE Reservation_number >= '2';
SELECT Customer_ID, Reservation_number FROM T2_Reservation WHERE Check_in_date >= '1999-02-03';

```

100 %

Results Messages

Service_ID	Service_name	Service_cost	Reservation_number
1	2	Transport	8000
2	3	Room	4000

Customer_ID	Reservation_number
1	2
2	1
3	4

QUERIES FOR <=

```

SELECT * FROM T2_Billing WHERE Room_charge > '2500';
SELECT * FROM T2_Reservation WHERE Number_of_guests > '3';
SELECT * FROM T2_Customer WHERE Zipcode < '534203';
SELECT * FROM T2_CUSTOMER_ADDRESS WHERE Customer_ID < '4';
SELECT * FROM T2_SERVICES WHERE Reservation_number >= '2';
SELECT Customer_ID, Reservation_number FROM T2_Reservation WHERE Check_in_date >= '1999-02-03';
SELECT Customer_Name FROM T2_Customer WHERE Customer_ID <= '3';
SELECT * FROM emp_info WHERE age <= 35;

```

100 %

Results Messages

	Customer_Name
1	Loflin
2	Ram
3	Maresh

	empid	empname	dob	age
1	1	Max	1999-03-21	22
2	3	Nax	1992-07-07	29

```

SELECT * FROM T2_Reservation WHERE Number_of_guests > '3';
SELECT * FROM T2_Customer WHERE Zipcode < '534203';
SELECT * FROM T2_CUSTOMER_ADDRESS WHERE Customer_ID < '4';
SELECT * FROM T2_SERVICES WHERE Reservation_number >= '2';
SELECT Customer_ID, Reservation_number FROM T2_Reservation WHERE Check_in_date >= '1999-02-03';
SELECT Customer_Name FROM T2_Customer WHERE Customer_ID <= '3';
SELECT * FROM emp_info WHERE age <= 35;
SELECT * FROM emp_info WHERE empname <= 'Jax';
SELECT * FROM T2_Rooms WHERE Room_Type <= 'Deluxe';

```

100 %

Results Messages

empid	empname	dob	age
1	Max	1999-03-21	22
2	Nax	1992-07-07	29

Room_number	Room_Type	Room_location	number_of_beds	Customer_ID
1	2	Economic	block-1	3

Q4) Illustrate Logical operators except ANY, ALL and Like (2 queries for each operator) The logical operators are AND,OR,IN,BETWEEN,NOT

QUERIES FOR AND

```

SELECT * FROM T2_SERVICES WHERE Service_cost > '2000' AND Service_ID >= 2;
SELECT * FROM T2_Rooms WHERE number_of_beds = '1' AND Room_location = 'block-2';

```

100 %

Results Messages

Service_ID	Service_name	Service_cost	Reservation_number
2	Transport	8000	3
3	Room	4000	2

Room_number	Room_Type	Room_location	number_of_beds	Customer_ID
1	1	Deluxe	block-2	1
2	3	Deluxe	block-2	1


```

--SELECT * FROM T2_SERVICES WHERE Service_cost > '2000' AND Service_ID >= 2;
SELECT * FROM T2_Rooms WHERE number_of_beds = '1' AND Room_location = 'block-2';

SELECT Reservation_number FROM T2_Reservation WHERE Reservation_date > '1999-02-02' OR Room_number = '1';
SELECT Customer_ID FROM T2_CUSTOMER_ADDRESS WHERE Street='35 Nagan' OR DNO = '9-12';

SELECT * FROM T2_Customer WHERE City IN ('hyderabad', 'Bengaluru');
SELECT * FROM T2_Billing WHERE Payment_date IN('2021-05-05');

SELECT * FROM T2_Reservation WHERE NOT Reservation_number = '12';
SELECT * FROM Customer_Backup WHERE NOT Customer_Name='Lofflin';
||
SELECT empname FROM emp_info WHERE AGE BETWEEN 25 AND 70;
SELECT Service_ID,Service_name,Service_cost FROM T2_SERVICES WHERE Reservation_number BETWEEN 2 AND 3;

```

100 %

Results Messages

	empname
1	Jax
2	Nax

	Service_ID	Service_name	Service_cost
1	2	Transport	6000
2	3	Room	4000

QUERIES FOR NOT

```

--SELECT * FROM T2_SERVICES WHERE Service_cost > '2000' AND Service_ID >= 2;
SELECT * FROM T2_Rooms WHERE number_of_beds = '1' AND Room_location = 'block-2';

SELECT Reservation_number FROM T2_Reservation WHERE Reservation_date > '1999-02-02' OR Room_number = '1';
SELECT Customer_ID FROM T2_CUSTOMER_ADDRESS WHERE Street='35 Nagan' OR DNO = '9-12';

SELECT * FROM T2_Customer WHERE City IN ('hyderabad', 'Bengaluru');
SELECT * FROM T2_Billing WHERE Payment_date IN('2021-05-05');

SELECT * FROM T2_Reservation WHERE NOT Reservation_number = '12';
SELECT * FROM Customer_Backup WHERE NOT Customer_Name='Lofflin';

```

100 %

Results Messages

	Reservation_number	Check_in_date	Check_out_date	Number_of_guests	Reservation_date	Customer_ID	Room_number
1	1	1999-02-03	1999-02-22	5	1999-02-01	2	1
2	3	1999-04-03	1999-04-04	2	1999-04-01	4	3

	Customer_ID	Customer_Name	Phone_number	City	State	Zipcode	Email_ID
1	2	Ram	8688543744	hyderabad	TN	534204	Ram@gmail.com
2	3	Maheesh	8688543746	Lucknow	UP	534205	mah@gmail.com
3	4	Prabha	8688543766	Bengaluru	Karnataka	534201	prab@gmail.com

THANK YOU