DBMS LAB ASSIGNMENT: 4

NAME: Chandra Sekhar

REG.: 19BCS059

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.

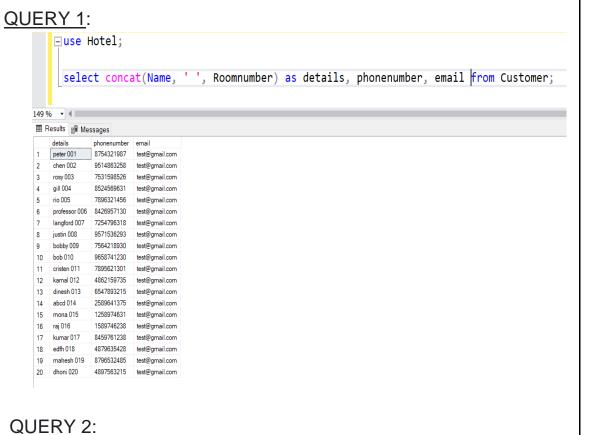
QUERY 1:

QUERY 2:

QUERY 3:

QUERY 4:

2.) Illustrate how we can use CONCAT and AS operations in SQL (minimum 3 queries).



QUERY 3:

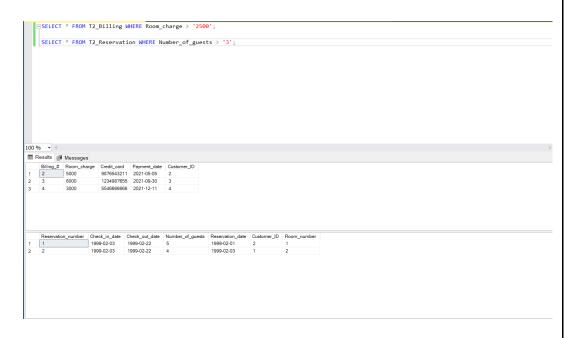
3.) Illustrate all the Comparision operator (2 queries for each operator).

<u>OPERATOR</u>	<u>Description</u>
=	Equal to.
>	Greater than.
<	Less than.
>=	Greater than equal to.
<=	Less than equal to.
<>	Not equal to.

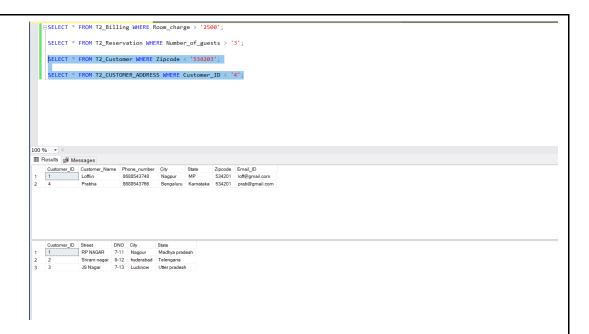
QUERY FOR "=":

```
| SELECT * FROM T2_Rooms WHERE Room_location='block-2';
| SELECT * FROM T2_CUSTOMER_ADDRESS WHERE Customer_ID='3';
| Through | State |
```

QUERY FOR ">":



QUERY FOR "<":



QUERY FOR ">=":

```
SSELECT * FROM T2_Billing WHERE Room_charge > '2500';

SELECT * FROM T2_Reservation WHERE Number_of_guests > '3';

SELECT * FROM T2_CUSTOMER_ADDRESS WHERE Customer_ID < '4';

SELECT * FROM T2_SERVICES WHERE Reservation_number >= '12';

SELECT Customer_ID, Reservation_number FROM T2_Reservation WHERE Check_in_date >= '1999-02-03';

100% * 4

Results ig Mussages

Serice_ID Service_name Service_cost Reservation_number | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 3 | 4 | 3 | 3
```

QUERY FOR "<=":

```
SELECT * FROM T2_Reservation inHERE Room_charge > '2500';

SELECT * FROM T2_Customer inHERE Zipcode < '534203';

SELECT * FROM T2_Customer inHERE Zipcode < '534203';

SELECT * FROM T2_Customer inHERE Zipcode < '534203';

SELECT * FROM T2_SENT/ICES inHERE Reservation_unber >= '2';

SELECT Customer_Lines FROM T2_Customer inHERE Customer_ID < '3';

SELECT Customer_Lines FROM T2_Customer inHERE Customer_ID <= '3';

SELECT Customer_Lines FROM T2_Customer inHERE Customer_ID <= '3';

SELECT * FROM E3_SENT/ICES inHERE age=35;

Onthere Jane

Onthere Jane

Mahash

Mahas
```

QUERY FOR "<>":

```
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 age(-35;

SELECT * FROM T2_Rooms WHERE Room_Type <> 'Deluxe';

SELECT * FROM 12_Rooms WHERE Room_Type <> 'Deluxe';

Room_number Room_Type Room_Scalion number_of_beds Customer_ID |

Room_number Room_Type Room_location number_of_beds Customer_ID |

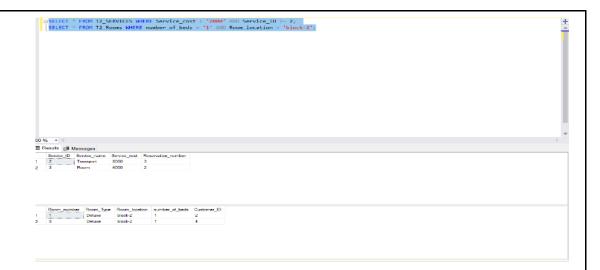
Room_number Room_Type Room_location number_of_beds Customer_ID |

Economic block-1 3 1
```

4.) Illustrate Logical operators except ANY, ALL and LIKE (2 queries for each operator)

LOGICAL OPERATOR	<u>Description</u>
AND	Both the conditions mentioned in the WHERE clause should be TRUE.
OR	At least one of the conditions mentioned in the WHERE clause should be TRUE.
NOT	The mentioned condition should be false in the WHERE clause.
IN	Is used to search for specified value matches any value in set of multiple values.
BETWEEN	Is used to get values within a range.

QUERY FOR "AND":



QUERY FOR "OR":

QUERY FOR "NOT":

QUERY FOR "IN":

QUERY FOR "BETWEEN":

```
| SELECT * FROM T2_SERVICES WHERE Service_cost > '2000' AND Service_ID >= 2;
| SELECT * FROM T2_Roses 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='JS Nagar' OR DNO = '9-12';
| SELECT * FROM T2_Customer WHERE City IM ('hydrarbad', 'Bengaluru');
| SELECT * FROM T2_Extraction WHERE NOT Reservation_number = '2';
| SELECT * FROM T2_Reservation WHERE NOT Reservation_number = '2';
| SELECT * FROM Customer_Backup WHERE NOT Customer_Name='Lofflin';
| SELECT * FROM Customer_Backup WHERE AGE BETWEEN 25 AND 70.
| SELECT Service_ID, Service_name_Service_cost FROM T2_SERVICES WHERE Reservation_number BETWEEN 2 AND 3.
| Service_ID Service_name_Service_cost FROM T2_SERVICES WHERE Reservation_number BETWEEN 2 AND 3.
| Service_ID Service_name Service_cost FROM T2_SERVICES WHERE Reservation_number BETWEEN 2 AND 3.
| Service_ID Service_name Service_cost FROM T2_SERVICES WHERE Reservation_number BETWEEN 2 AND 3.
| Service_ID Service_name Service_cost FROM T2_SERVICES WHERE Reservation_number BETWEEN 2 AND 3.
```

