DBMS LAB ASSIGNMENT-4

CH.BhawanKumar 19BCS031

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 Hotel;

| select * from Customer
| where customerid in (
| select customerid from Receptionist where Name = 'priya'
| );

| mathridge | mathridge | mathridge | mail | |
| customerid | Name | Roomnumber | phonenumber | email |
| customerid | Name | Roomnumber | phonenumber | email |
| customerid | Name | Roomnumber | phonenumber | email |
| customerid | Name | Roomnumber | phonenumber | email |
| customerid | Name | Roomnumber | phonenumber | email |
| customerid | Name | Roomnumber | phonenumber | email |
| customerid | Name | Roomnumber | phonenumber | email |
| customerid | Name | Roomnumber | phonenumber | email |
| customerid | Name | Roomnumber | phonenumber | email |
| customerid | Name | Roomnumber | phonenumber | email |
| customerid | Name | Roomnumber | phonenumber | email |
| customerid | Name | Roomnumber | phonenumber | email |
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| customerid | Name | Roomnumber | phonenumber | email |
| customerid | Name | Roomnumber | phonenumber | email |
| customerid | Name | Roomnumber | phonenumber | email |
| customerid | Name | Roomnumber | phonenumber | email | phonenumber | phonenumber | email | phonenumber | phonenumbe
```

QUERY 2:

QUERY 3:

```
⊡use Hotel;
    jselect * from Customer
           where customerid in (
                 select customerid from Manager
           );
149 % ▼ ◀
customerid Name Roomnumber
                         phonenumber email
   2
           chen
                          9514863258
                                  test@gmail.com
                009
                          7564218930
           bobby
                                   test@gmail.com
    16
           raj
                016
                          1589746238
                                  test@gmail.com
```

QUERY 4:

QUERY 5:

```
□ use Hotel;
□ select Name, address, phonenumber from Manager

where customerid in(
select customerid from Customer
where Roomnumber in (
select roomnumber from Room where stockid = 2
)
);
□ Messages
□ Name address phonenumber
□ daniel 33-6-213 5469871230
□ daniel 33-6-213 5469871230
```

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

QUERY 1:

```
□use Hotel;
       select concat(Name, ' ', Roomnumber) as details, phonenumber, email from Customer;
149 % ▼ ◀ ■
details
               phonenumber email
            8754321987 test@gmail.com
   peter 001
               9514863258
               7531598526 test@gmail.com
    rosy 003
3
    gill 004
               8524569631 test@gmail.com
               7896321456 test@gmail.com
5
    rio 005
     professor 006 8426957130 test@gmail.com
    langford 007 7254796318 test@gmail.com
    justin 008
              9571536293 test@gmail.com
     bobby 009
               7564218930
10 bob 010
               9658741230 test@gmail.com
11 cristen 011 7895621301 test@gmail.com
12 kamal 012
              4862159735 test@gmail.com
13 dinesh 013
               6547893215 test@gmail.com
14 abcd 014
               2589641375 test@gmail.com
15 mona 015 1258974631 test@gmail.com
16 raj 016
               1589746238 test@gmail.com
17 kumar 017 8459761238 test@gmail.com
18 edfh 018
              4879635428 test@gmail.com
19 mahesh 019 8796532485 test@gmail.com
20 dhoni 020 4897563215 test@gmail.com
```

QUERY 2:

QUERY 3:

```
select concat(address, ' ', phonenumber) as personal_info, Name, phonenumber from Manager
where customerid in(
select customerid from Customer
where Roomnumber in (
select roomnumber from Room where stockid = 2
)
);

149 % 
Results Messages
Results Messages
1 33-62135469871230 daniel 5469871230
2 33-62135469871230 daniel 5469871230
```

3) Illustrate all the Comparison operator (2 queries for each operator):

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

QUERY FOR "=":

QUERY FOR ">":

```
| SELECT * FROM T2_Reservation WHERE Number_of_guests > '3:60';
| SELECT * FROM T2_Reservation WHERE Number_of_guests > '3';
| Image: Reservation | Missages | Missag
```

QUERY FOR "<":



QUERY FOR ">=":



QUERY FOR "<=":

QUERY FOR "<>":

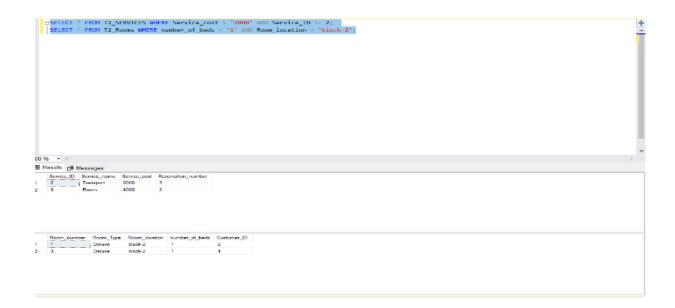


4) Illustrate Logical operators except ANY, ALL and LIKE (2 queries for each operator):

LOGICAL	Description
OPERATOR	

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":

Customer_ID Customer_Name Phone_number City State Zipcode Email_ID 1 2 Ram 8888543744 Inviderabad TN 534204 Ram@gmail.com 2 3 Maheeh 888543746 Lucknow UP 534205 makegmail.com 3 4 Prabha 368543766 Bengaluru Kamataka 534201 prab@gmail.com

QUERY FOR "IN":



QUERY FOR "BETWEEN":

