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# **DBMS LAB ASSIGNMENT - 4**

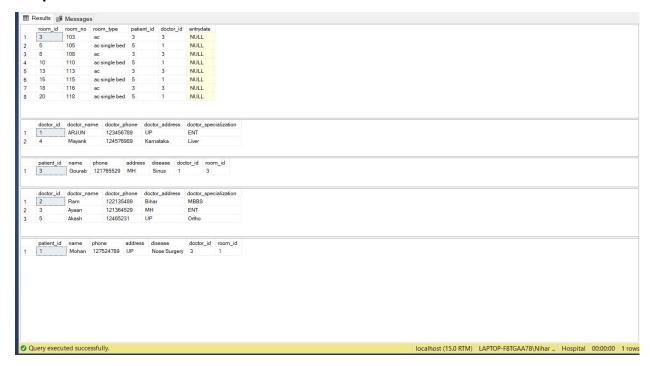
Q1) Write 5 Nested Queries for your respective database- the queries should not be very similar like just changing the where clause or just building all the queries on only one or two tables etc. The queries should make sense; it should cover most part of your database tables.

```
use Hospital
SELECT *
FROM dbo.T1_ROOM
WHERE doctor_id IN( SELECT doctor_id
FROM dbo.T1_Doctor
WHERE doctor_specialization = 'ENT');

SELECT *
FROM dbo.T1_Doctor
WHERE doctor_id IN ( SELECT doctor_id
FROM dbo.T1_Patient
WHERE room_id IN( SELECT room_id
FROM dbo.T1_Room
where room_type = 'ac'));

SELECT *
FROM dbo.T1_Patient
WHERE doctor_id IN( SELECT doctor_id
```

```
FROM dbo.T1 Doctor
WHERE doctor phone IN( SELECT doctor phone
FROM dbo.T1 Doctor
where doctor phone = 0123456789);
SELECT *
FROM dbo.T1 Doctor
WHERE doctor id IN ( SELECT doctor id
FROM dbo.T1 Patient
WHERE room id IN( SELECT room id
FROM dbo.T1 Room
where room type = 'general'));
SELECT *
FROM dbo.T1 Patient
WHERE doctor id IN( SELECT doctor id
FROM dbo.T1 Doctor
WHERE doctor_phone IN( SELECT doctor_phone
FROM dbo.T1 Doctor
where doctor phone = 121364529));
```



# Q2) Illustrate how we can use Concat and As operators in SQL.

```
use Hospital
SELECT CONCAT(doctor_name,' ',doctor_address) AS
Full_Name
from
    T1_Doctor
SELECT CONCAT(room_no,' * ',room_type) AS Room
from
    T1_Room
SELECT CONCAT(name,'(',disease,')') AS
Name_and_Disease
from T1_Patient
```

```
SQLQuery5.sql - lo...TGAA78\Nihar (52))* 😕 🗶 SQLQuery3.sql - lo...TGAA78\Nihar (59))* SQLQuery4.sql - lo...TGAA78\Nihar (69))*
                                                                                                                    SQLQuery2.sql - Io...TGAA78\Nihar (60))
     ⊡use Hospital
     SELECT CONCAT(doctor_name,' ',doctor_address) AS Full_Name from
      T1 Doctor
    SELECT CONCAT(room_no,' * ',room_type) AS Room from
    SELECT CONCAT(name, '(', disease, ')') AS
    Name_and_Disease from T1_Patient
Ayaan MH
   Mayank Kamataka
Ram Bihar
 1 101* general
2 102* general
3 103* ac
    104 * ac
105 * ac single bed
   106 * general
106 * general
107 * general
107 * general
 10 108 * ac
 Name_and_Disease
1 Apama(Liver Failure)
     Gourab(Sinus)
   Mohan(Nose Surg.
    Sanchit(Appendix)

    Query executed successfully.

                                                                                                            localhost (15.0 RTM) LAPTOP-F8TGAA78\Nihar ... Hospital | 00:00:00 | 30 rows
```

# Q3) Illustrate all the Comparison operator.

```
SELECT * FROM dbo.T1_Doctor where doctor_id <= 2;
SELECT * FROM dbo.T1_Doctor where doctor_id <= 5;

SELECT * FROM dbo.T1_Room where room_id >= 1;
SELECT * FROM dbo.T1_Room where room_id >= 0;

SELECT * FROM dbo.T1_Doctor where doctor_name = 'Akash';
SELECT * FROM dbo.T1_Doctor where doctor_id = 5;

SELECT * FROM dbo.T1_Doctor where doctor_id <= 2;
SELECT * FROM dbo.T1_Doctor where doctor_id <= 2;
SELECT * FROM dbo.T1_Doctor where doctor_id <= 5;</pre>
```

```
SELECT * FROM dbo.T1_Room where room_id != 2;
SELECT * FROM dbo.T1_Room where room_type != 'ac';
```



# Q4) Illustrate Logical operators except ANY, ALL and Like.

```
use Hospital
SELECT *
FROM dbo.T1 ROOM
WHERE doctor id IN( SELECT doctor id
FROM dbo.T1 Doctor
WHERE doctor specialization = 'ENT');
SELECT *
FROM dbo.T1 Doctor
WHERE doctor id IN ( SELECT doctor id
FROM dbo.T1 Patient
WHERE room id IN( SELECT room id
FROM dbo.T1 Room
where room type = 'ac'));
SELECT *
FROM dbo.T1 Patient
WHERE doctor id IN( SELECT doctor id
FROM dbo.T1 Doctor
WHERE doctor phone IN( SELECT doctor phone
FROM dbo.T1 Doctor
where doctor phone = 0123456789));
SELECT *
FROM dbo.T1 Doctor
WHERE doctor id IN ( SELECT doctor id
FROM dbo.T1 Patient
WHERE room id IN( SELECT room id
```

```
FROM dbo.T1_Room
where room_type = 'general'));

SELECT *
FROM dbo.T1_Patient
WHERE doctor_id IN( SELECT doctor_id
FROM dbo.T1_Doctor
WHERE doctor_phone IN( SELECT doctor_phone
FROM dbo.T1_Doctor
where doctor_phone = 121364529));
```

