# DBMS ASSIGNMENT-4

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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:

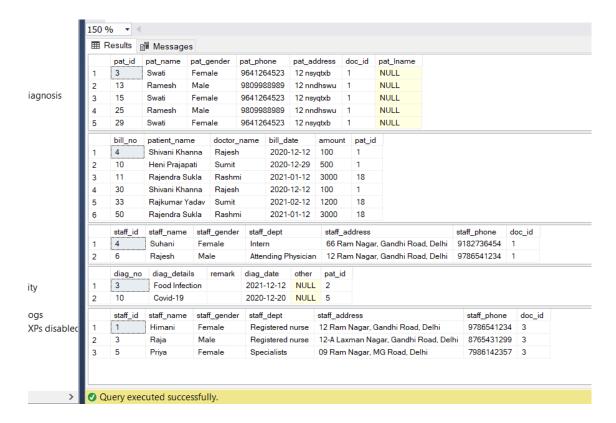
```
SELECT * FROM t1_patients
where doc_id IN(SELECT doc_id FROM t1_doctor
where doc_designation = 'Gynaecologist');

SELECT * FROM t1_bill
where pat_id IN(SELECT pat_id FROM t1_patients
where pat_name = 'Ramesh');

SELECT * FROM t1_staff
where doc_id IN(SELECT doc_id FROM t1_doctor
where doc_designation = 'Gynaecologist');

SELECT * FROM t1_patient_diagnosis
where pat_id IN(SELECT doc_id FROM t1_doctor
where doc_name = 'Rashmi');

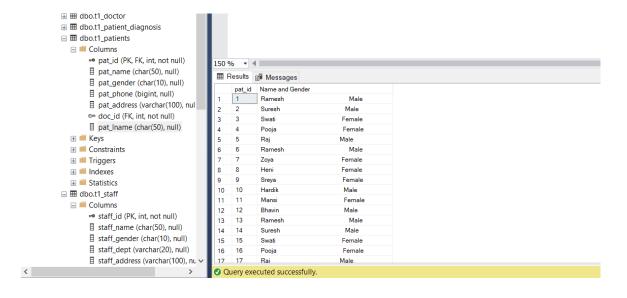
SELECT * FROM t1_staff
where doc_id IN(SELECT pat_id FROM t1_patients
where pat_gender = 'Female');
```



# 2. Illustrate how we can use concat and AS operator in SQL.

#### Query:

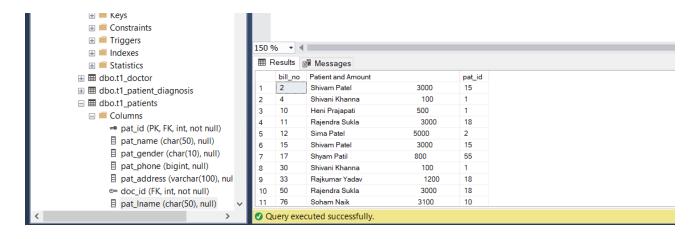
SELECT pat\_id,concat(pat\_name,pat\_gender) as 'Name and Gender' FROM t1\_patients;



#### **Query:**

SELECT bill\_no,concat(patient\_name,amount) as 'Patient and Amount',pat\_id FROM t1\_bill;

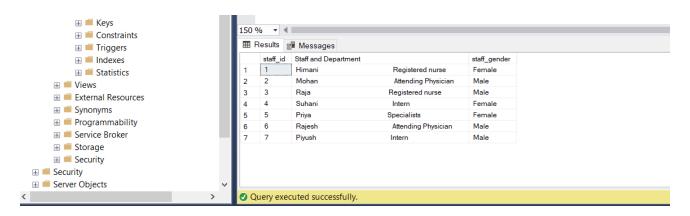
# **Output:**



#### **Query:**

SELECT staff\_id,concat(staff\_name,staff\_dept) as 'Staff and Department',staff\_gender FROM t1\_staff;

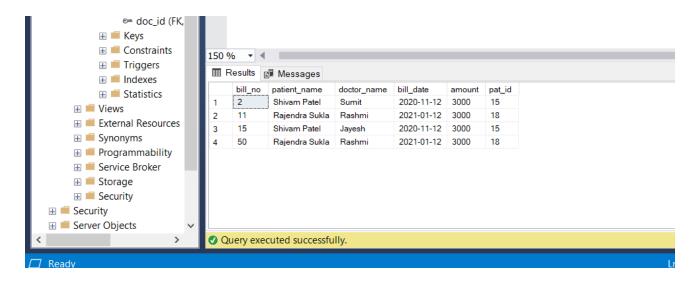
# **Output:**



# 3. Illustrate all the Comparison operator

**Query:**(= operator)

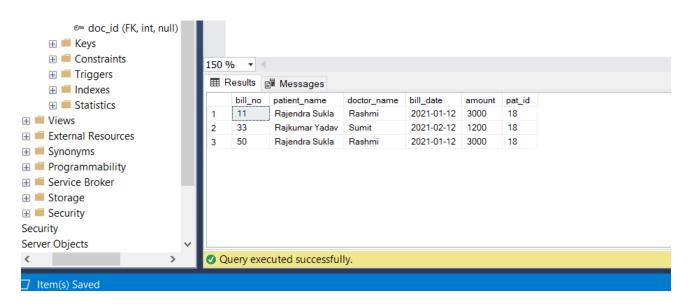
SELECT \* FROM t1\_bill WHERE amount=3000;



#### **Query:**(= operator)

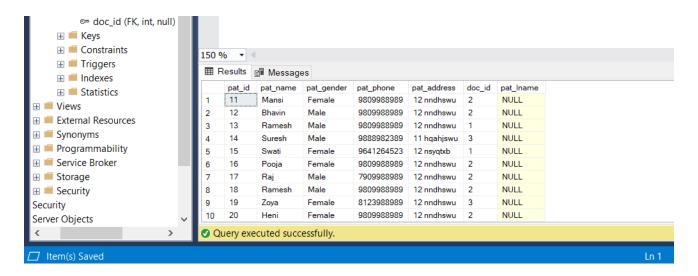
SELECT \* FROM t1\_bill WHERE pat\_id=18;

#### **Output:**



# **Query:**(> operator)

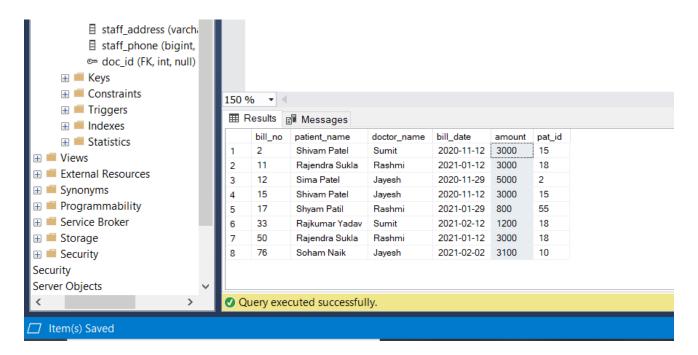
SELECT \* FROM t1\_patients WHERE pat\_id>10;



#### **Query:(> operator)**

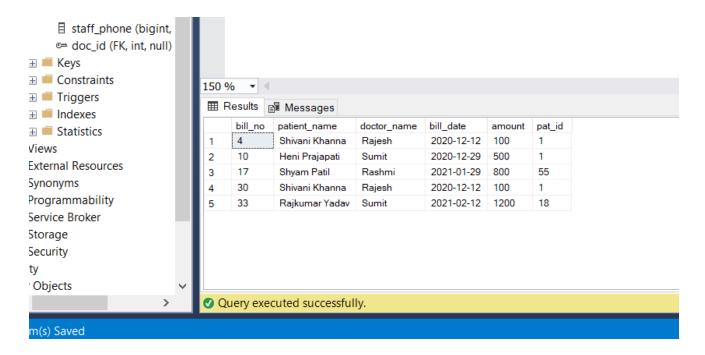
SELECT \* FROM t1\_bill WHERE amount>500;

#### **Output:**



# **Query:**(< operator)

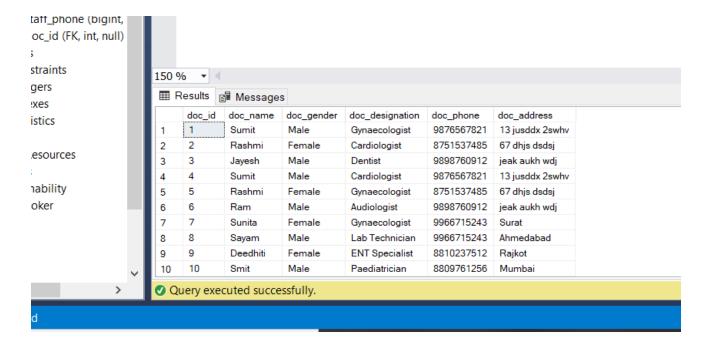
SELECT \* FROM t1\_bill WHERE amount<3000;



#### **Query:**(< operator)

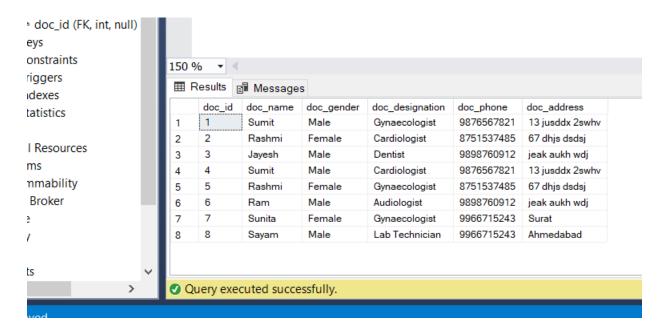
SELECT \* FROM t1\_doctor WHERE doc\_id<15;

#### **Output:**



# **Query:**(<= operator)

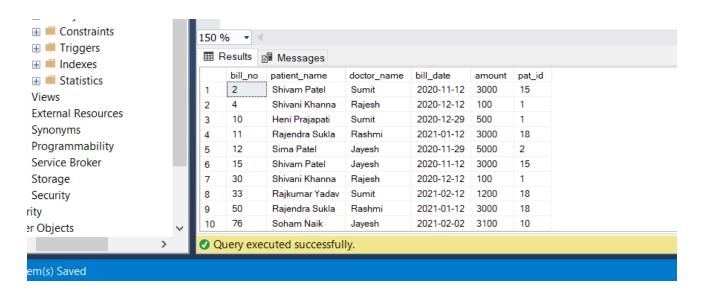
SELECT \* FROM t1\_doctor WHERE doc\_id<=8;



#### **Query:**(<= operator)

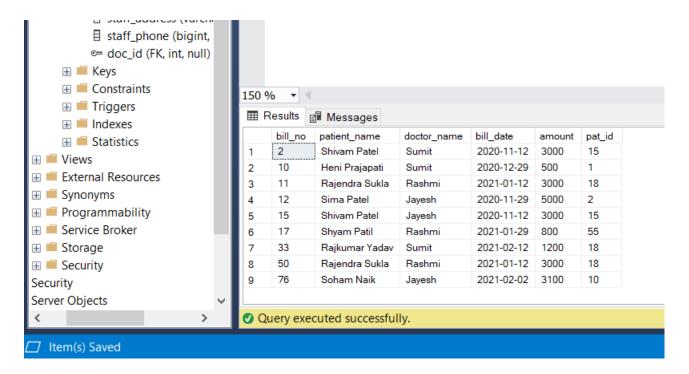
SELECT \* FROM t1\_bill WHERE pat\_id<=50;</pre>

#### **Output:**



# **Query:**(>= operator)

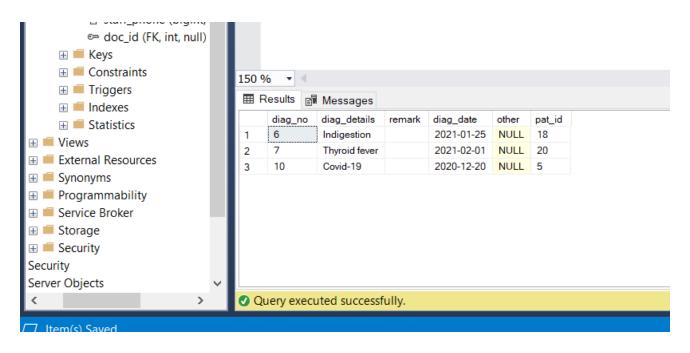
SELECT \* FROM t1\_bill WHERE amount>=300;



#### **Query:**(>= operator)

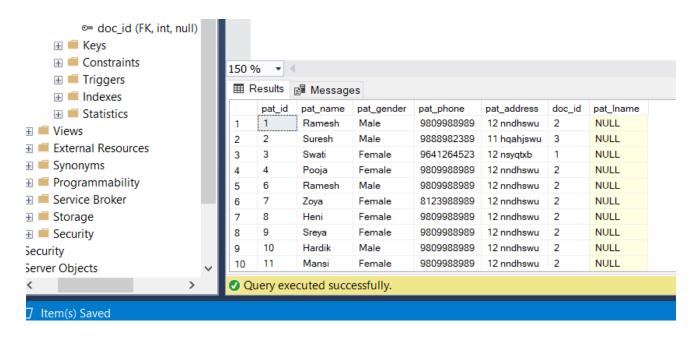
SELECT \* FROM t1\_patient\_diagnosis WHERE diag\_no>=5;

#### **Output:**



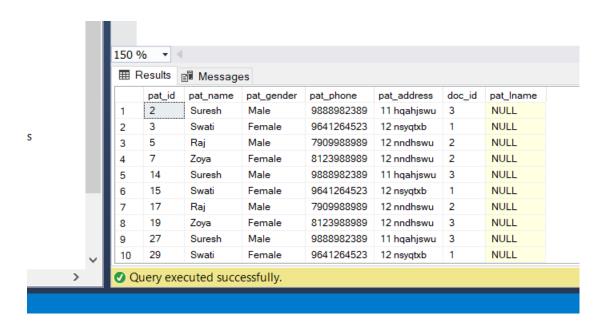
# Query:(<> operator)

SELECT \* FROM t1\_patients WHERE pat\_id<>5;



#### **Query:(<>operator)**

SELECT \* FROM t1\_patients WHERE pat\_phone<>9809988989;



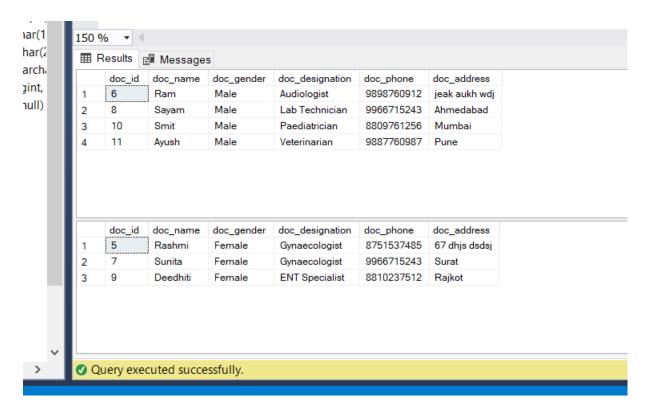
#### 4. Illustrate Logical operators except ANY, ALL and Like

#### **Query:(AND operator)**

SELECT \* FROM t1\_doctor WHERE doc\_gender = 'Male' AND doc\_id>=5;

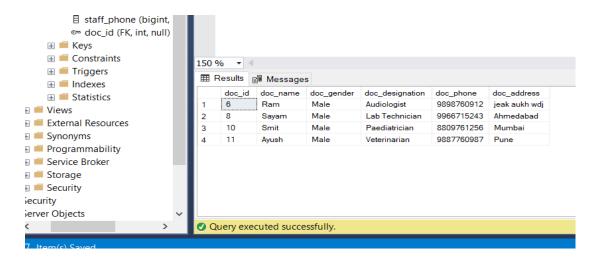
SELECT \* FROM t1\_doctor WHERE doc\_gender = 'Female' AND doc\_id>=5;

#### **Output:**



# **Query:**(AND operator)

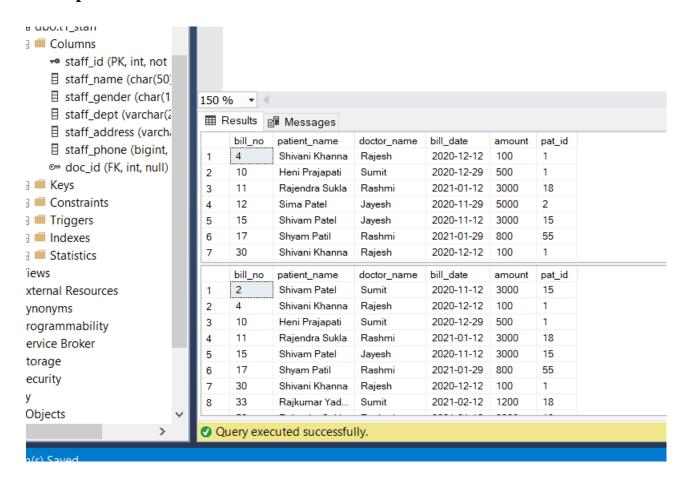
SELECT \* FROM t1\_doctor WHERE doc\_gender = 'Male' AND doc\_id>=5;



# **Query:(BETWEEN operator)**

SELECT \* FROM t1\_bill WHERE bill\_no BETWEEN 3 and 30;

SELECT \* FROM t1\_bill WHERE amount BETWEEN 100 and 3000;

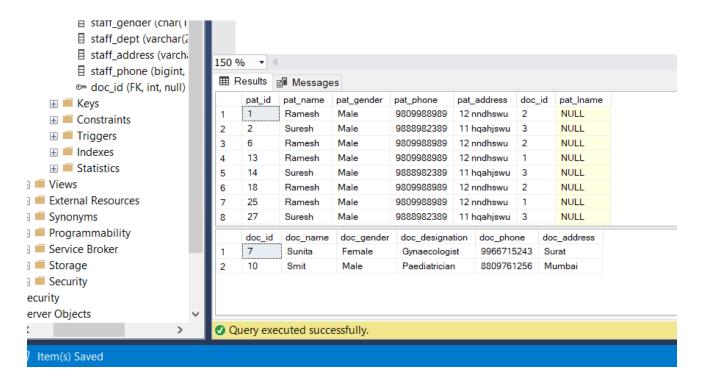


#### **Query:(IN operator)**

SELECT \* FROM t1\_patients WHERE pat\_name In ('Ramesh', 'Suresh');

SELECT \* FROM t1\_doctor WHERE doc\_address In ('Surat', 'Mumbai');

#### **Output:**



# Query:(OR operator)

SELECT \* FROM t1\_patients WHERE pat\_gender = 'Male' OR pat\_name='Suresh';

SELECT \* FROM t1\_doctor WHERE doc\_address = 'Surat' OR doc\_designation='Gynaecologist';

