

# DBMS LAB ASSIGNMENT 4

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## 1) 5 NESTED QUERIES

SQLQuery1.sql - [p...Aparna Kholia (59)]\*

```
SELECT * FROM T1_Doctor
where doc_ID IN (SELECT doc_ID FROM dbo.T1_Doctor WHERE doc_name='Heni');

SELECT * FROM T1_Patient
where Patient_ID IN (SELECT Patient_ID FROM dbo.T1_Patient WHERE age=22);

SELECT * FROM T1_Patient
where Patient_ID IN (SELECT Patient_ID FROM dbo.T1_Patient WHERE Room_num=404);

SELECT * FROM T1_room
where Room_num IN (SELECT Room_num FROM dbo.T1_room WHERE Patient_ID=101);

SELECT * FROM T1_appointment
where app_ID IN (SELECT app_ID FROM dbo.T1_appointment WHERE app_time='12:30');
```

100 %

Results Messages

	doc_ID	doc_name	doc_specialization
1	1	Heni	Ortho

	Patient_ID	Name	age	Blood Group	Phone_no	app_ID	Room_num
1	1	Akshat	22	B-	257137	564	404

	Patient_ID	Name	age	Blood Group	Phone_no	app_ID	Room_num
1	1	Akshat	22	B-	257137	564	404

	Room_num	Room_type	Patient_ID
1	116	General	101

	app_ID	doc_ID	Patient_ID	app_time
1	246	1	101	12:30
2	493	4	11	12:30

## 2) CONCAT and AS operators

SQLQuery1.sql - lo...Aparna Kholia (59))\*

```
SELECT CONCAT(doc_ID, '_', app_ID) AS app_ID FROM dbo.T1_appointment;  
  
SELECT CONCAT(Patient_ID, '_', Name) AS Patient_ID FROM dbo.T1_Patient;  
  
SELECT CONCAT(bill_ID, '_', Patient_ID) AS bill_ID FROM dbo.T1_bill;
```

110 %

Results Messages

	app_ID
1	1_246
2	5_301
3	4_493
4	3_564
5	2_927

	Patient_ID
1	1_Akshat
2	100_Ankit
3	101_Elizabeth
4	11_Grace
5	10_Vineet

	bill_ID
1	350_101
2	964_10
3	1000_11
4	2045_100
5	4597_1

✓ Query executed successfully.

### 3) COMPARISON OPERATORS

#### QUERIES:

```
SQLQuery1.sql - lo...Aparna Kholia (59))* -p X
SELECT * from T1_Doctor where doc_specialization != 'Ortho';
SELECT * from T1_appointment where app_time != '12:30';

SELECT * from T1_Patient where [Blood Group] = 'B+';
SELECT * from T1_room where Room_type = 'ICU';

SELECT * from T1_Patient where age <= 50;
SELECT * from T1_bill where bill_ID <= 300;

SELECT * from T1_Doctor where doc_ID >= 3;
SELECT * from T1_Patient where Patient_ID >= 11;
```

#### OUTPUT:

Results Messages

doc_ID	doc_name	doc_specialization	
1	5	Kush	Phy
2	2	Mike	Physician
3	3	Rustom	Child

app_ID	doc_ID	Patient_ID	app_time	
1	301	5	10	1:45
2	564	3	1	16:30
3	927	2	100	2:00

Patient_ID	Name	age	Blood Group	Phone_no	app_ID	Room_num	
1	11	Grace	51	B+	176796	493	101

Room_num	Room_type	Patient_ID	
1	101	ICU	11

Patient_ID	Name	age	Blood Group	Phone_no	app_ID	Room_num	
1	1	Alshai	22	B-	257137	564	404
2	10	Vinest	29	O+	555813	301	204
3	100	Ankit	23	AB+	971637	927	216

bill_ID	Patient_ID	Payment_method
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doc_ID	doc_name	doc_specialization	
1	3	Rustom	Child
2	4	Dityank	Ortho
3	5	Kush	Phy

Patient_ID	Name	age	Blood Group	Phone_no	app_ID	Room_num	
1	11	Grace	51	B+	176796	493	101
2	100	Ankit	23	AB+	971637	927	216
3	101	Eliz	69	O+	297324	348	118

Query executed successfully.

localhost (15.0 RTM) DESKTOP-MLN98U\Aparna..

#### 4) LOGICAL OPERATORS

##### QUERIES:

```
SQLQuery2.sql - lo...Apama Kholia (59) - # X
SELECT * FROM T1_Patient where age BETWEEN 23 and 55;
SELECT * FROM T1_appointment where app_ID BETWEEN 300 and 500;

SELECT * FROM T1_Doctor where doc_specialization = 'Phy' or doc_specialization= 'Child';
SELECT * FROM T1_bill where Payment_method = 'Credit card' or Payment_method= 'Debit card';

SELECT * FROM T1_room where Room_type NOT IN('ICU');
SELECT * FROM T1_Doctor where doc_name NOT IN('Heni', 'Mike', 'Kush');

SELECT * FROM T1_Patient where [Blood Group] IN('B+', 'O+');
SELECT * FROM T1_appointment where app_time IN('12:30', '1:45');
```

##### OUTPUT:

SQLQuery2.sql - lo...Apama Kholia (59) - # X

121 %

Results Messages

Patient_ID	Name	age	Blood Group	Phone_no	app_ID	Room_num	
1	10	Vinod	29	O+	555813	301	254
2	11	Grace	51	B+	176796	493	101
3	100	Anka	23	AB+	071637	027	218

app_ID	doc_ID	Patient_ID	app_time	
1	301	5	10	1:45
2	493	4	11	12:30

doc_ID	doc_name	doc_specialization	
1	5	Kush	Phy
2	3	Ruskon	Child

bill_ID	Patient_ID	Payment_method	
1	550	101	Credit card
2	884	10	Credit card
3	1000	11	Debit card

Room_num	Room_type	Patient_ID	
1	118	General	101
2	204	General	10
3	218	General	100
4	404	General	1

doc_ID	doc_name	doc_specialization	
1	4	Dryank	Ortho
2	3	Ruskon	Child

Patient_ID	Name	age	Blood Group	Phone_no	app_ID	Room_num	
1	10	Vinod	29	O+	555813	301	254
2	11	Grace	51	B+	176796	493	101
3	101	Ela	69	O+	297324	246	118

app_ID	doc_ID	Patient_ID	app_time	
1	246	1	101	12:30
2	301	5	10	1:45
3	493	4	11	12:30

Query executed successfully.

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