

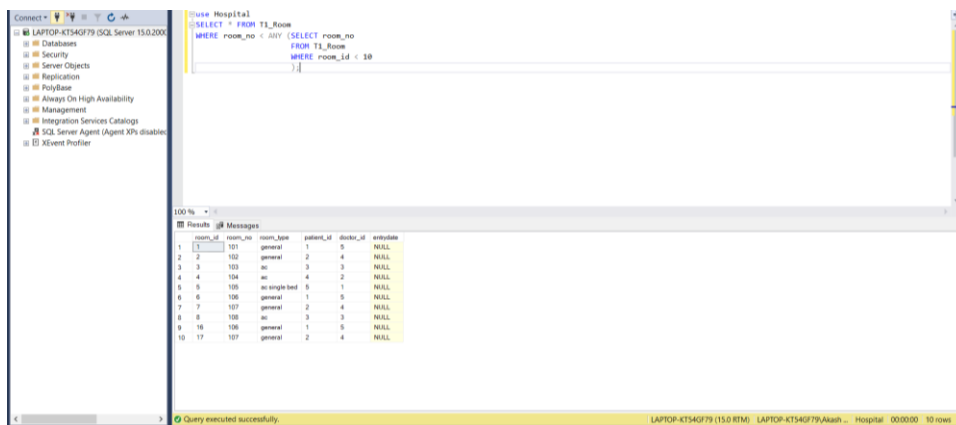
DBMS LAB ASSIGNMENT 5

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19BCS118

CSE

Q.1)



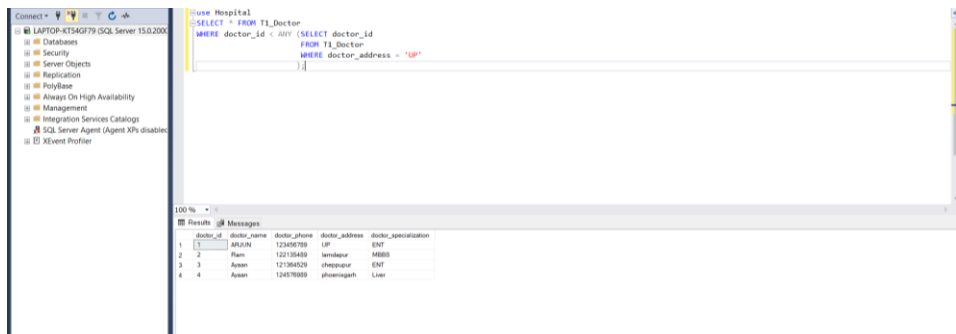
The screenshot shows the SQL Server Enterprise Manager interface. The left pane displays the server hierarchy for 'LAPTOP-KTS4G79' (SQL Server 15.0.2000). The right pane shows a query window with the following SQL code:

```
USE Hospital
SELECT * FROM T1_Room
WHERE room_no < ANY (SELECT room_no
FROM T1_Room
WHERE room_id < 10)
```

Below the query window, the 'Results' tab displays the following data:

room_id	room_name	room_type	patient_id	doctor_id	entersdate
1	101	general	1	5	NULL
2	102	general	2	4	NULL
3	103	icu	3	3	NULL
4	104	icu	4	2	NULL
5	105	no single bed	5	1	NULL
6	106	general	1	5	NULL
7	107	general	2	4	NULL
8	108	icu	3	3	NULL
9	109	general	1	5	NULL
10	110	general	2	4	NULL

The status bar at the bottom indicates 'Query executed successfully' and '10 rows'.



The screenshot shows the SQL Server Enterprise Manager interface. The left pane displays the server hierarchy for 'LAPTOP-KTS4G79' (SQL Server 15.0.2000). The right pane shows a query window with the following SQL code:

```
USE Hospital
SELECT * FROM T1_Doctor
WHERE doctor_id < ANY (SELECT doctor_id
FROM T1_Doctor
WHERE doctor_address = 'UP')
```

Below the query window, the 'Results' tab displays the following data:

doctor_id	doctor_name	doctor_phone	doctor_address	doctor_specialization
1	Dr. A	123456789	UP	ENT
2	Ram	122134567	landapur	MBBS
3	Ashu	121345678	chhapar	ENT
4	Ashu	124567890	pharwanpatti	Laser

The status bar at the bottom indicates 'Query executed successfully' and '4 rows'.

Connect

LAPTOP-KT54G779 (SQL Server 15.0.2000)

Databases

Security

Server Objects

Replication

PolyBase

Always On High Availability

Management

Integration Services Catalogs

SQL Server Agent (Agent XPs disabled)

XE Event Profiler

Use Hospital

SELECT > FROM T1_Room

WHERE room_id < ANY (SELECT room_id

FROM T1_Room

WHERE room_type = 'general')

100 %

Results Messages

room_id	room_no	room_type	patient_id	doctor_id	entrydate
1	101	general	1	5	NULL
2	102	general	2	4	NULL
3	103	ac	3	3	NULL
4	104	ac	4	2	NULL
5	105	ac single bed	5	1	NULL
6	106	general	1	5	NULL
7	107	general	2	4	NULL
8	108	ac	3	3	NULL
9	109	ac	4	2	NULL
10	110	ac single bed	5	1	NULL
11	111	general	1	5	NULL
12	112	general	2	4	NULL
13	113	ac	3	3	NULL
14	114	ac	4	2	NULL
15	115	ac single bed	5	1	NULL
16	108	general	1	5	NULL

Connect

LAPTOP-KT54G779 (SQL Server 15.0.2000)

Databases

Security

Server Objects

Replication

PolyBase

Always On High Availability

Management

Integration Services Catalogs

SQL Server Agent (Agent XPs disabled)

XE Event Profiler

Use Hospital

SELECT > FROM T1_Room

WHERE room_no > ALL (SELECT room_no

FROM T1_Room

WHERE room_id < 10

100 %

Results Messages

room_id	room_no	room_type	patient_id	doctor_id	entrydate
1	110	ac single bed	5	1	NULL
2	111	general	1	5	NULL
3	112	general	2	4	NULL
4	113	ac	3	3	NULL
5	114	ac	4	2	NULL
6	115	ac single bed	5	1	NULL
7	116	ac	3	3	NULL
8	117	ac	4	2	NULL
9	118	ac single bed	5	1	NULL

Connect

LAPTOP-KT54G779 (SQL Server 15.0.2000)

Databases

Security

Server Objects

Replication

PolyBase

Always On High Availability

Management

Integration Services Catalogs

SQL Server Agent (Agent XPs disabled)

XE Event Profiler

Use Hospital

SELECT > FROM T1_Room

WHERE room_id > ALL (SELECT room_id

FROM T1_Room

WHERE room_type = 'general')

100 %

Results Messages

room_id	room_no	room_type	patient_id	doctor_id	entrydate
1	118	ac	3	3	NULL
2	117	ac	4	2	NULL
3	118	ac single bed	5	1	NULL

Connect •

LAPTOP-KTS4G79 SQL Server 15.0.2008

- Database
- Security
- Server Objects
- Replication
- Polybase
- Always On High Availability
- Management
- Integration Services Catalogs
- SQL Server Agent (Agent XPs disabled)
- XEvent Profiler

Use Hospital

```
SELECT * FROM T1_Doctor
WHERE doctor_name LIKE 'AS'
```

100 %

Results Messages

doctor_id	doctor_name	doctor_phone	doctor_address	doctor_specialization
1	ASAD	123456789	UP	ENT
2	Asan	121364509	chennur	ENT
3	Asan	124578909	phenningsh	Low
4	Asah	12456231	UP	Ortho

Connect •

LAPTOP-KTS4G79 SQL Server 15.0.2008

- Database
- Security
- Server Objects
- Replication
- Polybase
- Always On High Availability
- Management
- Integration Services Catalogs
- SQL Server Agent (Agent XPs disabled)
- XEvent Profiler

Use Hospital

```
SELECT * FROM T1_Room
WHERE doctor_id = 5 AND room_type LIKE 'KL'
```

100 %

Results Messages

room_id	room_no	room_type	patient_id	doctor_id	entrydate
1	101	general	1	5	NULL
2	106	general	1	5	NULL
3	111	general	1	5	NULL
4	108	general	1	5	NULL

Connect •

LAPTOP-KTS4G79 SQL Server 15.0.2008

- System Databases
- Database Snapshots
- Hospital
 - Database Diagrams
 - Tables
 - System Tables
 - File Tables
 - External Tables
 - Graph Tables
 - dbo.T1_Room
 - Columns
 - room_id (PK, int, not null)
 - room_no (int, null)
 - room_type (varchar)
 - patient_id (int, null)
 - doctor_id (int, null)
 - Keys
 - Constraints
 - Triggers
 - Indexes
 - Statistics
 - Views
 - External Resources
 - Synonyms
 - Programmability
 - Service Broker
 - Storage
 - Security
 - Server Objects
 - Replication

Use Hospital

```
INSERT INTO T1_Room
(room_id, room_no, room_type, patient_id, doctor_id)
VALUES ('1', '101', 'general', '1', '5')
```

100 %

Messages

Msg 2607, Level 14, Row 1, Line 1
Violation of PRIMARY KEY constraint 'PK__T1_Room__1017A88B10A8593F'. Cannot insert duplicate key in object 'dbo.T1_Room'. The duplicate key value is (1).
The statement has been terminated.

Completion time: 2021-10-19T21:01:40.5957600+00:00

Q.2)

Connect • LAPTOP-KT54GF79 (SQL Server 15.0.2000.200) •

- Databases
- Security
- Server Objects
- Replication
- PolyBase
- Always On High Availability
- Management
- Integration Services Catalogs
- SQL Server Agent (Agent XPs disabled)
- XEvent Profiler

```
USE Hospital
SELECT doc(doctor_id) FROM T1_Room;
```

100 %

Results Messages

	(No column name)
1	5

Connect • LAPTOP-KT54GF79 (SQL Server 15.0.2000.200) •

- Databases
- Security
- Server Objects
- Replication
- PolyBase
- Always On High Availability
- Management
- Integration Services Catalogs
- SQL Server Agent (Agent XPs disabled)
- XEvent Profiler

```
USE Hospital
SELECT doc(?)
FROM T1_Room
WHERE room_no=118;
```

100 %

Results Messages

	(No column name)
1	5

Connect • LAPTOP-KT54GF79 (SQL Server 15.0.2000.200) •

- Databases
- Security
- Server Objects
- Replication
- PolyBase
- Always On High Availability
- Management
- Integration Services Catalogs
- SQL Server Agent (Agent XPs disabled)
- XEvent Profiler

```
USE Hospital
SELECT doc(doctor_id)
FROM T1_Room;
```

100 %

Results Messages

	(No column name)
1	5

Connect • LAPTOP-KT54G79 (SQL Server 15.0.2000)

- Database
- Security
- Server Objects
- Replication
- Policybase
- Always On High Availability
- Management
- Integration Services Catalogs
- SQL Server Agent (Agent XPs disabled)
- XEvent Profiler

```
USE Hospital
SELECT SUM(doctor_id)
FROM T1_Room
```

100 %

Results Messages

(No column name)

1	
---	--

Connect • LAPTOP-KT54G79 (SQL Server 15.0.2)

- Database
- System Databases
- Database Snapshots
- Hospital
 - Database Diagrams
 - Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - dbo.T1_Doctor
 - dbo.T1_Patient
 - dbo.T1_Room
 - Columns
 - room_id (PK, int, not null)
 - room_no (int, null)
 - room_type (varchar)
 - patient_id (int, null)
 - doctor_id (int, null)
 - entrydate (date, null)
 - Keys
 - Constraints
 - Triggers
 - Indexes
 - Statistics
 - dbo.T1_Room_temp
- Views
- External Resources
- Synonyms
- Programmability
- Service Broker
- Storage
- Security

```
SELECT SUM(room_no) as sum_of_rooms
FROM T1_Room
```

100 %

Results Messages

sum_of_rooms

1	2184
---	------

Connect • LAPTOP-KT54G79 (SQL Server 15.0.2)

- Database
- System Databases
- Database Snapshots
- Hospital
 - Database Diagrams
 - Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - dbo.T1_Doctor
 - dbo.T1_Patient
 - dbo.T1_Room
 - Columns
 - room_id (PK, int, not null)
 - room_no (int, null)
 - room_type (varchar)
 - patient_id (int, null)
 - doctor_id (int, null)
 - entrydate (date, null)
 - Keys
 - Constraints
 - Triggers
 - Indexes
 - Statistics
 - dbo.T1_Room_temp
- Views
- External Resources
- Synonyms
- Programmability
- Service Broker
- Storage
- Security

```
USE Hospital
SELECT SUM(doctor_id)
FROM T1_Room
```

100 %

Results Messages

(No column name)

1	50
---	----

Q.3)

Connect: LAPTOP-KT54G779 SQL Server 15.0.2

use Hospital

```
SELECT * from T1_Patient
where room_id < 3 order by name ASC;
```

Results Messages

patient_id	name	phone	address	disease	doctor_id	room_id
1	Mohan	127524789	UP	New Surgery	3	1
2	Ramchit	122424159	Bihar	low leg	2	2

Connect: LAPTOP-KT54G779 SQL Server 15.0.2

use Hospital

```
SELECT * from T1_Doctor
where doctor_id < 4 order by doctor_name ASC;
```

Results Messages

doctor_id	doctor_name	doctor_phone	doctor_address	doctor_specialization
1	ARUN	123456789	UP	ENT
3	Arun	121364529	chennai	ENT
2	Ram	122159459	landapur	MBBS

Connect: LAPTOP-KT54G779 SQL Server 15.0.2

use Hospital

```
SELECT patient_id from T1_patient
GROUP BY patient_id having patient_id < 3 ;
```

Results Messages

patient_id
1
2

Connect • LAPTOP-KTS4G779 (SQL Server 15.02) >

- Databases
 - System Databases
 - Database Snapshots
 - Hospital
 - Database Diagrams
 - Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - dbo.T1_Doctor
 - dbo.T1_Patient
 - dbo.T1_Room
 - Columns
 - room_id (PK, int, not null)
 - room_no (int, null)
 - room_type (varchar)
 - patient_id (int, null)
 - doctor_id (int, null)
 - entrydate (date, null)
 - Keys
 - Constraints
 - Triggers
 - Indexes
 - Statistics
 - dbo.T1_Room_temp
 - Views
 - External Resources
 - Synonyms
 - Programmability
 - Service Broker
 - Storage
 - Security

```

--use hospital
select room_type from T1_Room
group by room_type having room_type = 'ac';

```

100 %

Results Messages

room_type
ac

Q.4)

Connect • LAPTOP-KTS4G779 (SQL Server 15.02) >

- Databases
 - System Databases
 - Database Snapshots
 - Hospital
 - Database Diagrams
 - Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - dbo.T1_Doctor
 - dbo.T1_Patient
 - dbo.T1_Room
 - Columns
 - room_id (PK, int, not null)
 - room_no (int, null)
 - room_type (varchar)
 - patient_id (int, null)
 - doctor_id (int, null)
 - entrydate (date, null)
 - Keys
 - Constraints
 - Triggers
 - Indexes
 - Statistics
 - dbo.T1_Room_temp
 - Views
 - External Resources
 - Synonyms
 - Programmability
 - Service Broker
 - Storage
 - Security

```

--use Hospital
select distinct(doctor_id) FROM T1_Room
GROUP BY room_type
HAVING room_type='ac';

```

100 %

Results Messages

(No column name)

1	2

Connect • LAPTOP-KTS4G779 (SQL Server 15.02) >

- Databases
 - System Databases
 - Database Snapshots
 - Hospital
 - Database Diagrams
 - Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - dbo.T1_Doctor
 - dbo.T1_Patient
 - dbo.T1_Room
 - Columns
 - room_id (PK, int, not null)
 - room_no (int, null)
 - room_type (varchar)
 - patient_id (int, null)
 - doctor_id (int, null)
 - entrydate (date, null)
 - Keys
 - Constraints
 - Triggers
 - Indexes
 - Statistics
 - dbo.T1_Room_temp
 - Views
 - External Resources
 - Synonyms
 - Programmability
 - Service Broker
 - Storage
 - Security

```

--use Hospital
select count(room_id)
from T1_Room
group by doctor_id
having doctor_id = 1;

```

100 %

Results Messages

(No column name)

1	4

Connect •

LAPTOP-KTS4G79 (SQL Server 15.02)

- System Databases
- Database Snapshots
- Hospital
 - Database Diagrams
 - Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - dbo.T1_Doctor
 - dbo.T1_Patient
 - dbo.T1_Room
 - Columns
 - room_id (PK, int, not null)
 - room_no (int, null)
 - room_type (varchar)
 - patient_id (int, null)
 - doctor_id (int, null)
 - entrydate (date, null)
 - Keys
 - Constraints
 - Triggers
 - Indexes
 - Statistics
 - dbo.T1_Room_temp
 - Views
 - External Resources
 - Synonyms
 - Programmability
 - Service Broker
 - Storage
 - Security

```
USE Hospital;
SELECT sum(room_id) as sum_room FROM T1_Room
GROUP BY room_type
HAVING room_type='general';
```

100 %

Results Messages

sum_room
32

Connect •

LAPTOP-KTS4G79 (SQL Server 15.02)

- System Databases
- Database Snapshots
- Hospital
 - Database Diagrams
 - Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - dbo.T1_Doctor
 - dbo.T1_Patient
 - dbo.T1_Room
 - Columns
 - room_id (PK, int, not null)
 - room_no (int, null)
 - room_type (varchar)
 - patient_id (int, null)
 - doctor_id (int, null)
 - entrydate (date, null)
 - Keys
 - Constraints
 - Triggers
 - Indexes
 - Statistics
 - dbo.T1_Room_temp
 - Views
 - External Resources
 - Synonyms
 - Programmability
 - Service Broker
 - Storage
 - Security

```
USE Hospital;
SELECT avg(room_id) as avg_room FROM T1_Room
GROUP BY room_type
HAVING room_type='general';
```

100 %

Results Messages

avg_room
2

Connect •

LAPTOP-KTS4G79 (SQL Server 15.02)

- System Databases
- Database Snapshots
- Hospital
 - Database Diagrams
 - Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - dbo.T1_Doctor
 - dbo.T1_Patient
 - dbo.T1_Room
 - Columns
 - room_id (PK, int, not null)
 - room_no (int, null)
 - room_type (varchar)
 - patient_id (int, null)
 - doctor_id (int, null)
 - entrydate (date, null)
 - Keys
 - Constraints
 - Triggers
 - Indexes
 - Statistics
 - dbo.T1_Room_temp
 - Views
 - External Resources
 - Synonyms
 - Programmability
 - Service Broker
 - Storage
 - Security

```
USE Hospital;
SELECT count(room_id) as special_rooms FROM T1_Room
GROUP BY room_type
HAVING room_type='general';
```

100 %

Results Messages

special_rooms
0

Q.5)

Connect • LAPTOP-KTS4G79 SQL Server 15.02

Database Explorer: Hospital > Tables > dbo.T1_Patient

```

--use Hospital
--select name,patient_id from T1_patient
--group by name,patient_id having patient_id<5 order by name asc

--use Hospital
--select room_id,room_type from T1_room
--group by room_id,room_type having room_type='general'

--use Hospital
--select doctor_name,doctor_specialization from T1_doctor
--group by doctor_name,doctor_specialization having doctor_specialization='ENT' order by doctor_name desc

```

100 % Results Messages

name	patient_id
James	4
Quinn	3
Mulan	1
Rachel	2

room_id	room_type
1	general
2	general
3	general
4	general
5	general
6	general
7	general
8	general

doctor_name	doctor_specialization
Ayan	ENT
ATULK	ENT

Q.6.)

Connect • LAPTOP-KTS4G79 SQL Server 15.02

Database Explorer: Hospital > Tables > dbo.T1_Patient

```

--use Hospital
--select patient_id from T1_patient
--except
--select patient_id from T1_room

--select * from T1_room
--where exists(select patient_id from T1_patient where patient_id <5 and
--T1_room.patient_id=T1_patient.patient_id)

--select * from T1_room
--where not exists(select patient_id from T1_patient where patient_id <5 and
--T1_room.patient_id=T1_patient.patient_id)

--select doctor_id from T1_room
--union
--select doctor_id from T1_doctor
--intersect
--select doctor_id from T1_doctor

```

100 % Results Messages

patient_id
11

room_id	room_no	room_type	patient_id	doctor_id	entrydate
1	101	general	1	5	NULL
2	102	general	2	4	NULL
3	103	ac	3	3	NULL
4	104	ac	4	2	NULL
5	105	general	1	5	NULL
6	107	general	2	4	NULL
7	108	ac	3	3	NULL
8	109	ac	4	2	NULL

Connect • LAPTOP-KTS4G79 SQL Server 15.02

Database Explorer: Hospital > Tables > dbo.T1_Patient

100 % Results Messages

patient_id
11

room_id	room_no	room_type	patient_id	doctor_id	entrydate
1	101	general	1	5	NULL
2	102	general	2	4	NULL
3	103	ac	3	3	NULL
4	104	ac	4	2	NULL
5	105	general	1	5	NULL
6	107	general	2	4	NULL
7	108	ac	3	3	NULL
8	109	ac	4	2	NULL

room_id	room_no	room_type	patient_id	doctor_id	entrydate
5	105	ac single bed	5	1	NULL
10	110	ac single bed	5	1	NULL
15	115	ac single bed	5	1	NULL
20	118	ac single bed	5	1	NULL

doctor_id
1
2
3
4
5

doctor_id
1
2
3
4
5

Q.7.)

Connect - LAPTOP-KT54GF79 (SQL Server 15.0.2)

- Databases
 - System Databases
 - Database Snapshots
 - Hospital
 - Database Diagrams
 - Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - dbo.T1_Doctor
 - dbo.T1_Patient
 - Columns
 - patient_id (PK, int, n)
 - name (varchar(50), r)
 - phone (varchar(10))
 - address (varchar(100))
 - disease (varchar(50))
 - doctor_id (int, null)
 - room_id (int, null)
 - Keys
 - Constraints
 - Triggers
 - Indexes
 - Statistics
 - dbo.T1_Room
 - Columns
 - room_id (PK, int, not null)
 - room_no (int, null)
 - room_type (varchar)
 - patient_id (int, null)
 - doctor_id (int, null)
 - entrydate (date, null)

Use Hospital

```

select T1_room.doctor_id, T1_patient.name
from T1_room
inner join T1_patient on T1_room.room_type='ac' AND
T1_room.patient_id=T1_patient.patient_id

select T1_room.doctor_id, T1_patient.name
from T1_room
inner join T1_patient on T1_room.patient_id=T1_patient.patient_id

select T1_room.doctor_id, T1_patient.name
from T1_room
inner join T1_patient on T1_room.room_type='general' AND
T1_room.patient_id=T1_patient.patient_id
  
```

100 %

Results Messages

Connect - LAPTOP-KT54GF79 (SQL Server 15.0.2)

- Databases
 - System Databases
 - Database Snapshots
 - Hospital
 - Database Diagrams
 - Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - dbo.T1_Doctor
 - dbo.T1_Patient
 - Columns
 - patient_id (PK, int, n)
 - name (varchar(50), r)
 - phone (varchar(10))
 - address (varchar(100))
 - disease (varchar(50))
 - doctor_id (int, null)
 - room_id (int, null)
 - Keys
 - Constraints
 - Triggers
 - Indexes
 - Statistics
 - dbo.T1_Room
 - Columns
 - room_id (PK, int, not null)
 - room_no (int, null)
 - room_type (varchar)
 - patient_id (int, null)
 - doctor_id (int, null)
 - entrydate (date, null)

Results Messages

doctor_id	name
1	Dravith
2	Aparna
3	Dravith
4	Aparna
5	Dravith
6	Aparna
7	Dravith
8	Aparna

doctor_id	name
1	Mohan
2	Dravith
3	Dravith
4	Aparna
5	Jani
6	Mohan
7	Dravith
8	Dravith

doctor_id	name
1	Mohan
2	Dravith
3	Mohan
4	Dravith
5	Mohan
6	Dravith
7	Mohan
8	Dravith

Connect - LAPTOP-KT54GF79 (SQL Server 15.0.2)

- Databases
 - System Databases
 - Database Snapshots
 - Hospital
 - Database Diagrams
 - Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - dbo.T1_Doctor
 - dbo.T1_Patient
 - Columns
 - patient_id (PK, int, n)
 - name (varchar(50), r)
 - phone (varchar(10))
 - address (varchar(100))
 - disease (varchar(50))
 - doctor_id (int, null)
 - room_id (int, null)
 - Keys
 - Constraints
 - Triggers
 - Indexes

Use Hospital

```

select T1_room.doctor_id, T1_patient.name
from T1_room
right join T1_patient on T1_room.room_type='ac' AND
T1_room.patient_id=T1_patient.patient_id

select T1_room.doctor_id, T1_patient.name
from T1_room
right join T1_patient on T1_room.patient_id=T1_patient.patient_id

select T1_room.doctor_id, T1_patient.name
from T1_room
right join T1_patient on T1_room.room_type='general' AND
T1_room.patient_id=T1_patient.patient_id
  
```

Connect - LAPTOP-KT54GF79 (SQL Server 15.0.2)

100 %

Results Messages

doctor_id	name
1	NULL
2	NULL
3	Gourab
4	3
5	3
6	3
7	2
8	2

doctor_id	name
1	5
2	5
3	5
4	5
5	4
6	4
7	4
8	4

doctor_id	name
1	5
2	5
3	5
4	5
5	4
6	4
7	4
8	4
9	NULL
10	NULL
11	NULL
12	NULL

Connect - LAPTOP-KT54GF79 (SQL Server 15.0.2)

100 %

Results Messages

```

--select T1.room_doctor_id,T1.patient_name
from T1_room
left join T1_patient on T1_room.room_type='ac' AND
T1_room.patient_id=T1_patient.patient_id

--select T1.room_doctor_id,T1.patient_name
from T1_room
left join T1_patient on T1_room.patient_id=T1_patient.patient_id

--select T1.room_doctor_id,T1.patient_name
from T1_room
left join T1_patient on T1_room.room_type='general' AND
T1_room.patient_id=T1_patient.patient_id

```

Connect - LAPTOP-KT54GF79 (SQL Server 15.0.2)

100 %

Results Messages

doctor_id	name
1	5
2	4
3	3
4	2
5	1
6	5
7	4
8	3

doctor_id	name
1	5
2	4
3	3
4	2
5	1
6	5
7	4
8	3
9	2
10	1
11	5
12	4
13	3
14	2
15	1

Q.8.)

Connect: LAPTOP-KTS4G779 (SQL Server 15.0.2)

Database Explorer:

- System Databases
- Database Snapshots
- Hospital
 - Database Diagrams
 - Tables
 - System Tables
 - File Tables
 - External Tables
 - Graph Tables
 - dbo.T1_Doctor
 - dbo.T1_Patient
 - Columns
 - patient_id (PK, int, n)
 - name (nvarchar(50), r)
 - phone (nvarchar(10))
 - address (nvarchar(100))
 - disease (nvarchar(50))
 - doctor_id (int, null)
 - room_id (int, null)
 - Keys
 - Constraints
 - Triggers
 - Indexes
 - Statistics
- dbo.T1_Room
 - Columns
 - room_id (PK, int, not null)
 - room_no (int, null)

SQL Query:

```

--use hospital
--select T1_room.doctor_id,T1_patient.name
--from T1_room
--join T1_patient on T1_room.room_type='n' AND
--T1_room.patient_id=T1_patient.patient_id

--select T1_room.doctor_id,T1_patient.name
--from T1_room
--join T1_patient on T1_room.patient_id=T1_patient.patient_id

--select T1_room.doctor_id,T1_patient.name
--from T1_room
--join T1_patient on T1_room.room_type='general' AND
--T1_room.patient_id=T1_patient.patient_id
  
```

100 %

Connect: LAPTOP-KTS4G779 (SQL Server 15.0.2)

Database Explorer:

- System Databases
- Database Snapshots
- Hospital
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 - Tables
 - System Tables
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 - Graph Tables
 - dbo.T1_Doctor
 - dbo.T1_Patient
 - Columns
 - patient_id (PK, int, n)
 - name (nvarchar(50), r)
 - phone (nvarchar(10))
 - address (nvarchar(100))
 - disease (nvarchar(50))
 - doctor_id (int, null)
 - room_id (int, null)
 - Keys
 - Constraints
 - Triggers
 - Indexes
 - Statistics
- dbo.T1_Room
 - Columns
 - room_id (PK, int, not null)
 - room_no (int, null)
 - room_type (nvarchar(10))
 - patient_id (int, null)
 - doctor_id (int, null)
 - entrydate (date, null)

Results:

doctor_id	name
1	Sanvik
2	Aparna
3	Govind
4	Aparna
5	Govind
6	Aparna
7	Govind
8	Aparna

doctor_id	name
1	Mohan
2	Sanvik
3	Govind
4	Aparna
5	Janti
6	Mohan
7	Sanvik
8	Govind

doctor_id	name
1	Mohan
2	Sanvik
3	Mohan
4	Sanvik
5	Mohan
6	Sanvik
7	Mohan
8	Sanvik