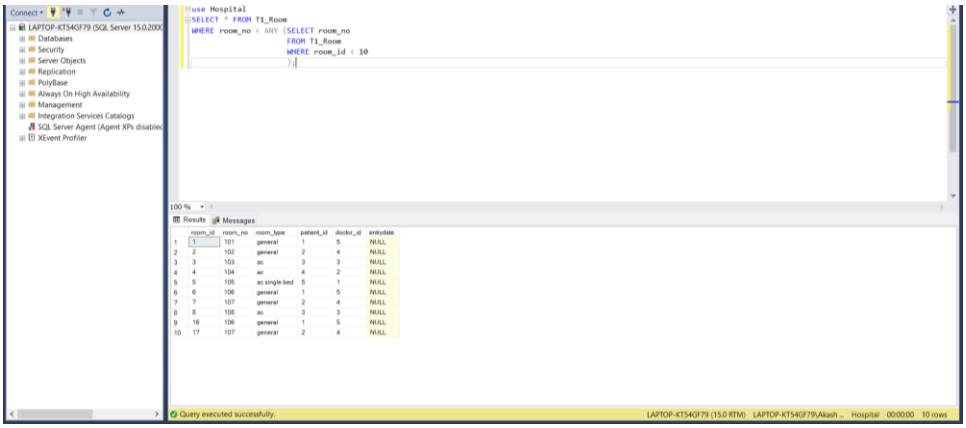
DBMS LAB ASSIGNMENT 5

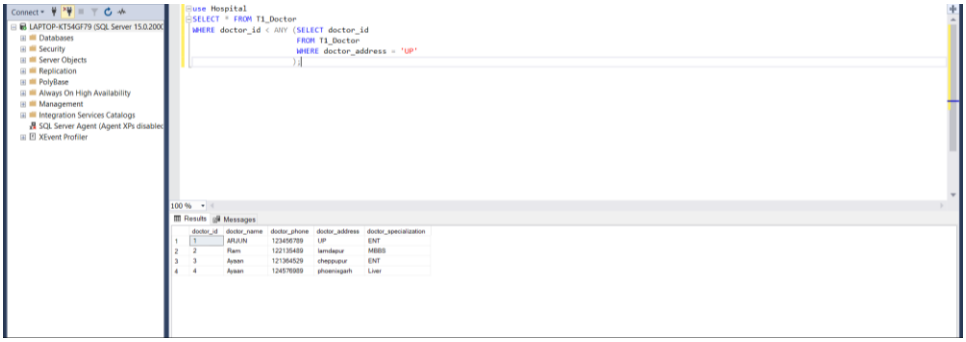
Gourab Chakraborty

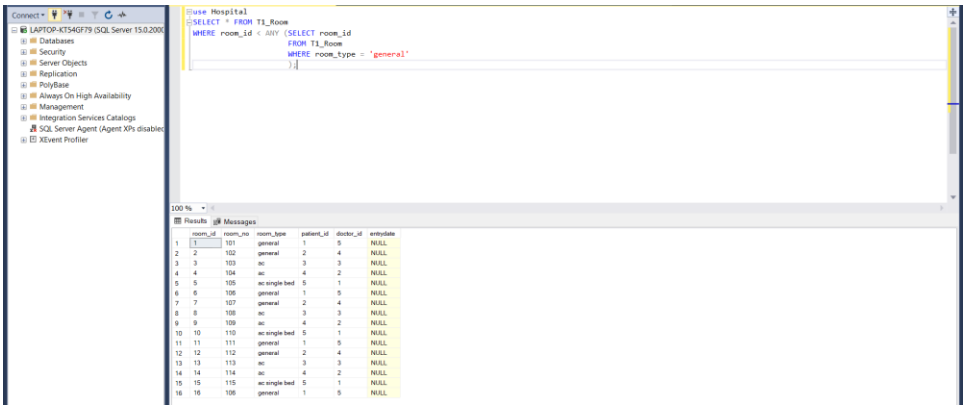
19BCS118

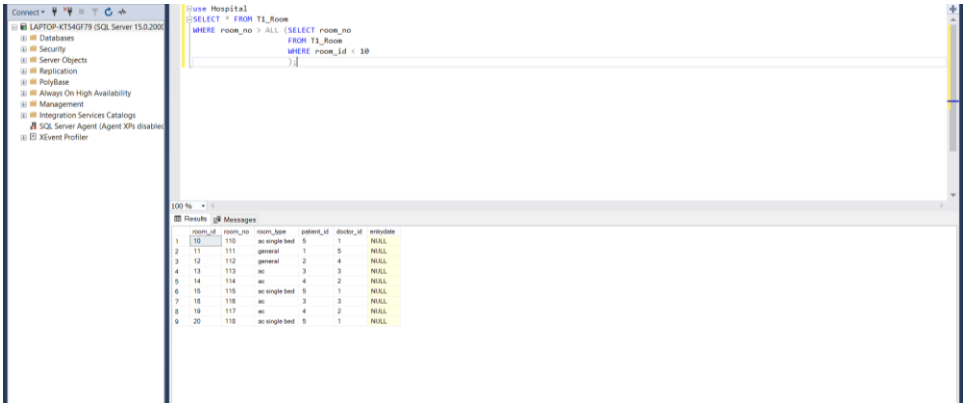
CSE

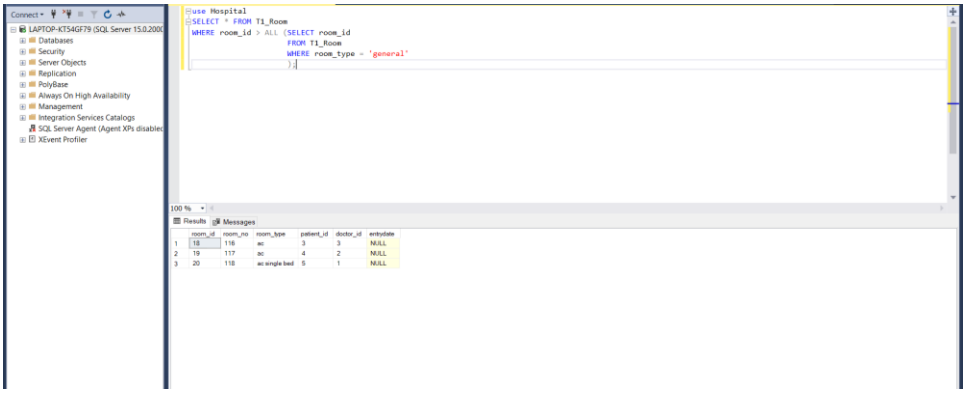
Q.1)

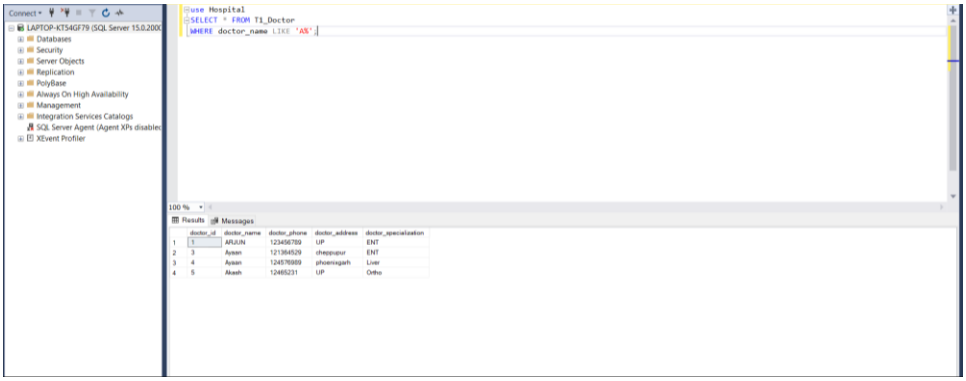


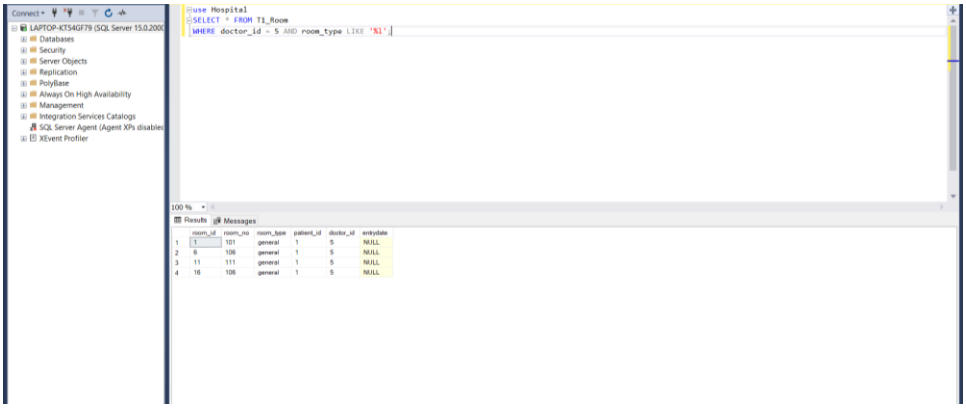


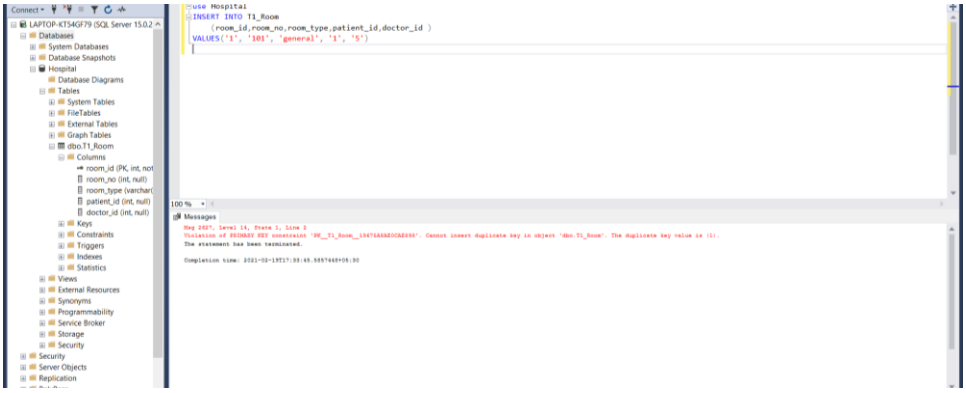

use Hospital
SELECT * FROM T1_Room
WHERE room_id < ANY (SELECT room_id
FROM T1_Room
WHERE room_type = 'general'
);
Results
Messages


use Hospital
SELECT * FROM T1_Room
WHERE room_no > ALL (SELECT room_no
FROM T1_Room
WHERE room_id < 10
);
Results
Messages

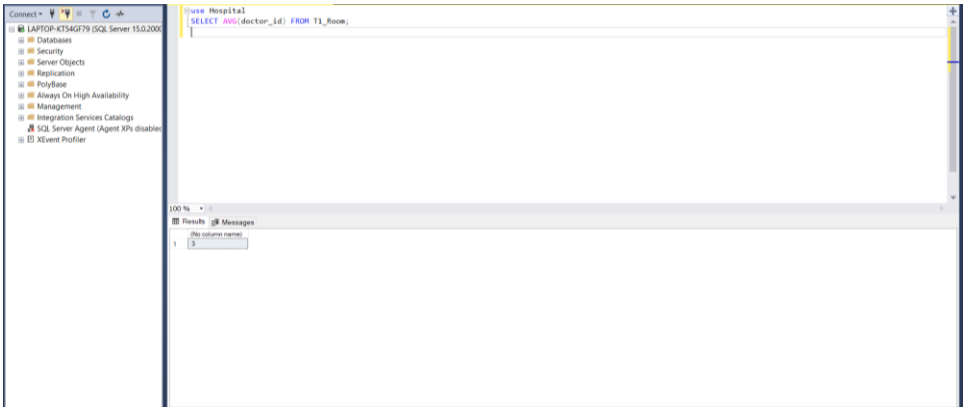

use Hospital
SELECT * FROM T1_Room
WHERE room_id > ALL (SELECT room_id
FROM T1_Room
WHERE room_type = 'general'
);
Results
Messages

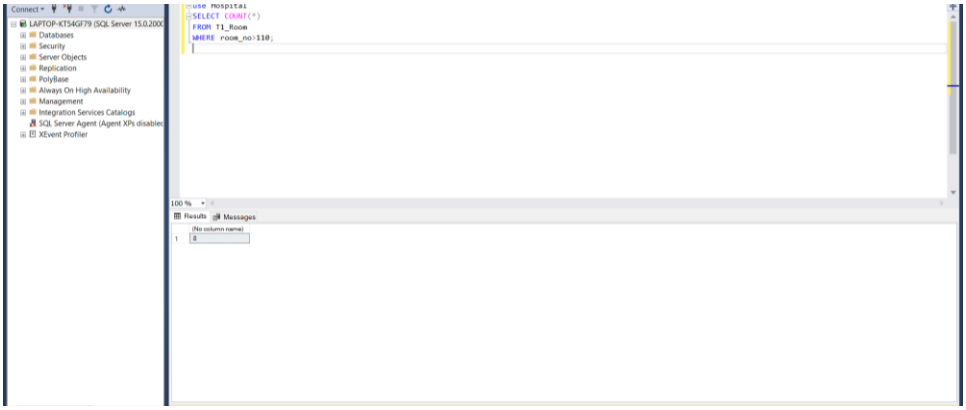

use Hospital
SELECT * FROM T1_Doctor
WHERE doctor_name LIKE 'A%';
Results
Messages
doctor_id doctor_name doctor_phone doctor_address doctor_specialization
1 1 ARJUN 123456789 UP ENT
2 3 Ayaan 121364529 cheppupur ENT
3 4 Ayaan 124578989 phoenixpark Liver
4 5 Akash 12465231 UP Ortho

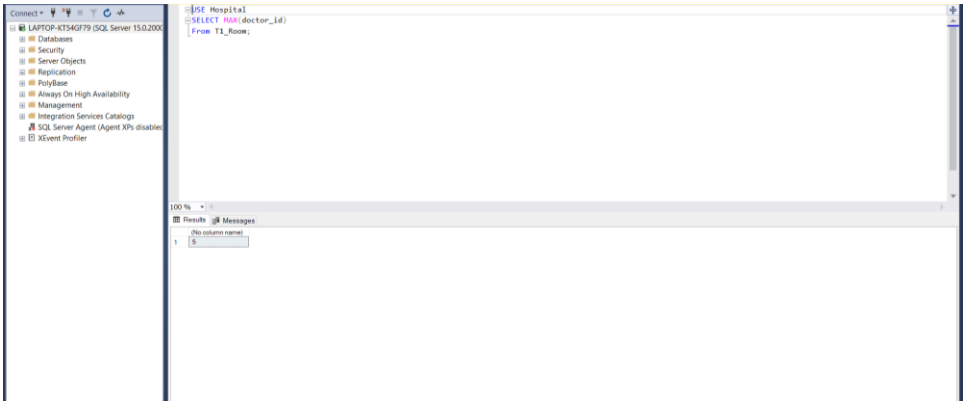

use Hospital
SELECT * FROM T1_Room
WHERE doctor_id = 5 AND room_type LIKE '%1';
Results
Messages
room_id room_no room_type patient_id doctor_id entrydate
1 1 101 general 1 5 NULL
2 6 106 general 1 5 NULL
3 11 111 general 1 5 NULL
4 16 106 general 1 5 NULL

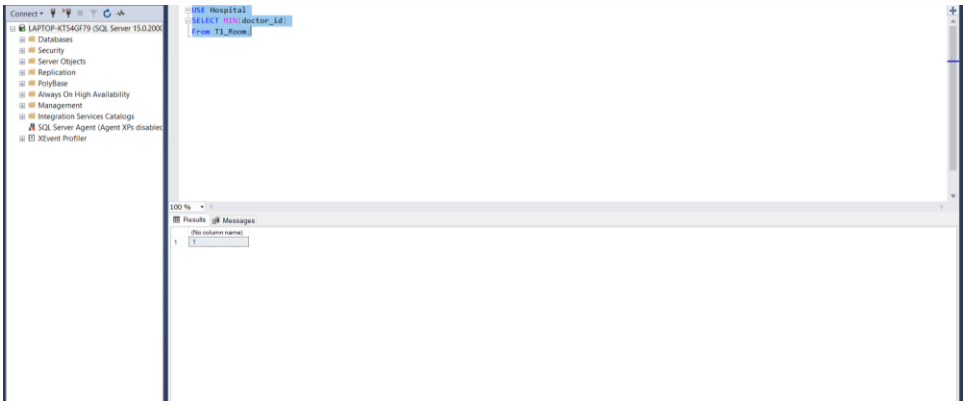

use Hospital
INSERT INTO T1_Room
(room_id,room_no,room_type,patient_id,doctor_id)
VALUES('1', '101', 'general', '1', '5')
Messages

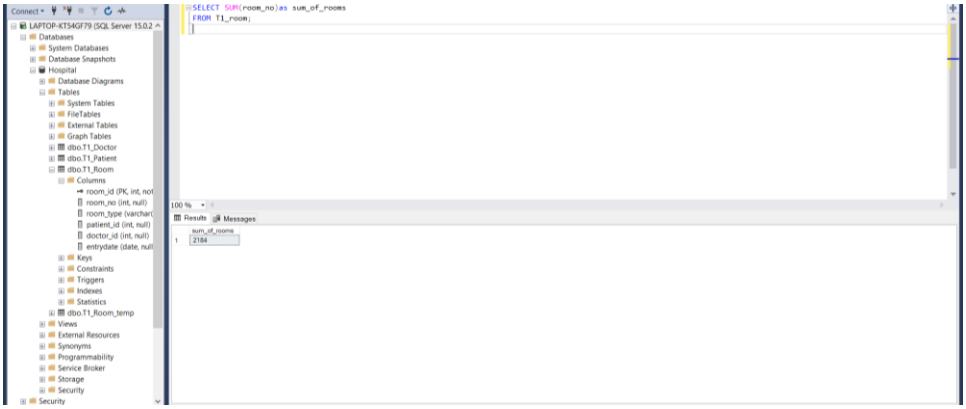
Q.2)

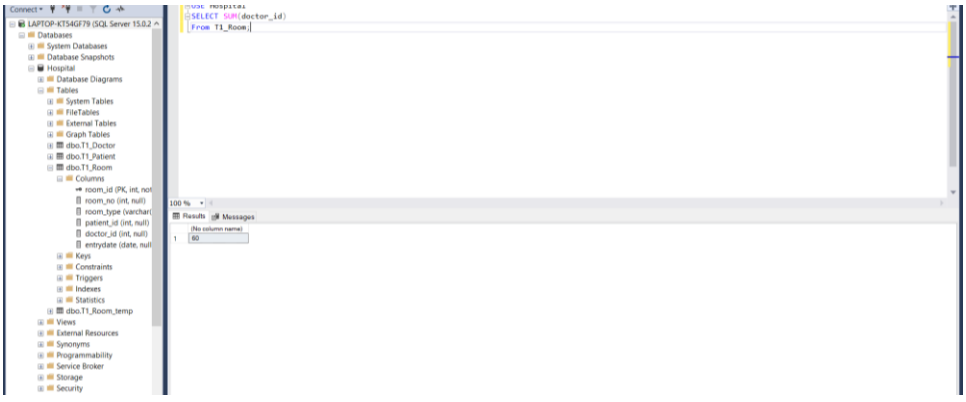

use Hospital
SELECT AVG(doctor_id) FROM T1_Room;
Results
Messages
(No column name)
3


use Hospital
SELECT COUNT(*)
FROM T1_Room
WHERE room_no>110;
Results
Messages
(No column name)
8

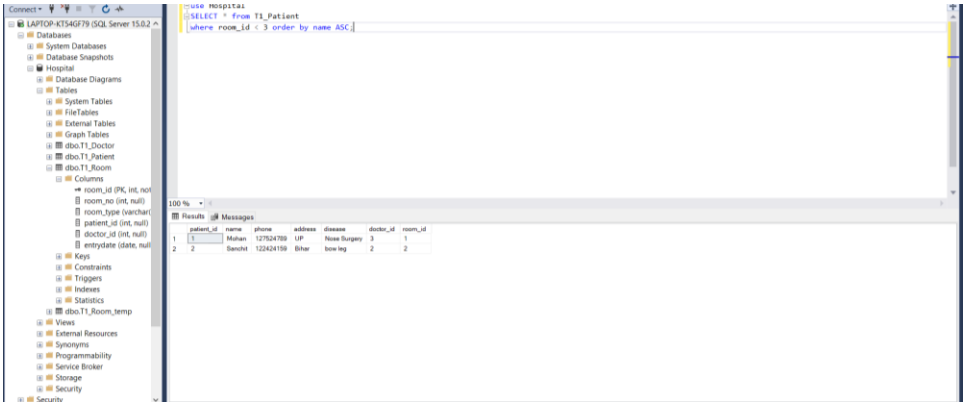

use Hospital
SELECT MAX(doctor_id)
From T1_Room;
Results
Messages
(No column name)
5

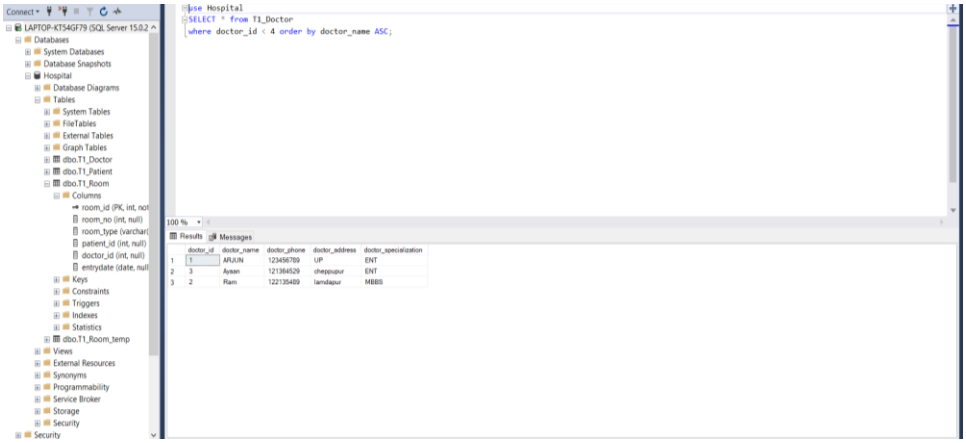

Connect
LAPTOP-KT54GF79 (SQL Server 15.0.200
Databases
Security
Server Objects
Replication
PolyBase
Always On High Availability
Management
Integration Services Catalogs
SQL Server Agent (Agent XPs disabled
XEvent Profiler
USE Hospital
SELECT MIN(doctor_id)
From T1_Room;
100 %
Results
Messages
(No column name)
1
1


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
dbo.T1_Room
Columns
room_id (PK, int, not
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
Security
SELECT SUM(room_no)as sum_of_rooms
FROM T1_room;
100 %
Results
Messages
sum_of_rooms
1
2184

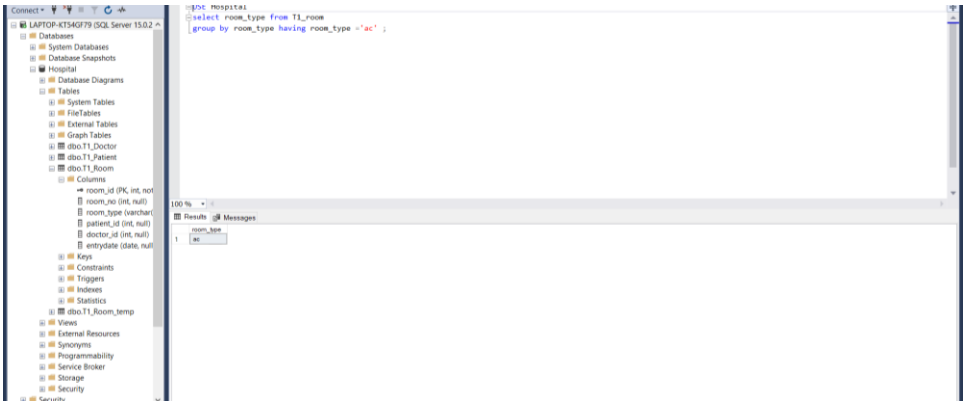

Connect
LAPTOP-KT54GF79 (SQL Server 15.0.2
Databases
System Databases
Database Snapshots
Hospital
Database Diagrams
Tables
System Tables
FileTables
External Tables
Graph Tables
dbo.T1_Doctor
dbo.T1_Patient
dbo.T1_Room
Columns
room_id (PK, int, not
room_no (int, null)
room_type (varchar(
patient_id (int, 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(doctor_id)
From T1_Room;
100 %
Results
Messages
(No column name)
1
60

Q.3)

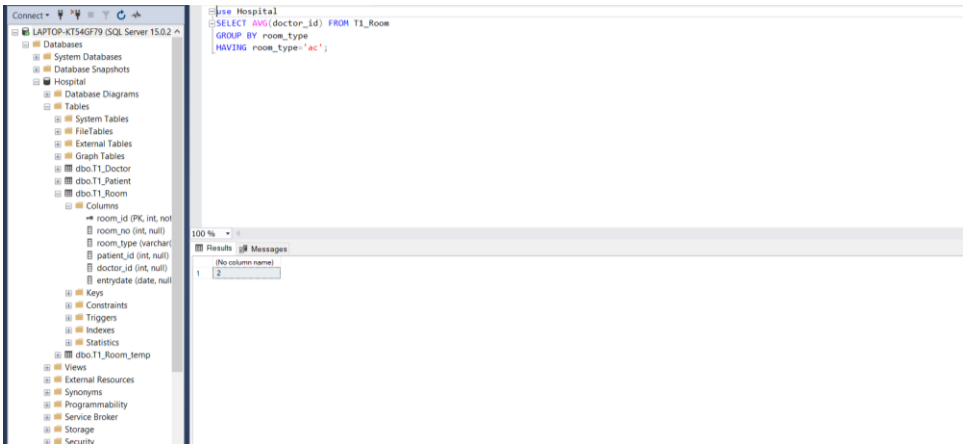

use Hospital
SELECT * from T1_Patient
where room_id < 3 order by name ASC;


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

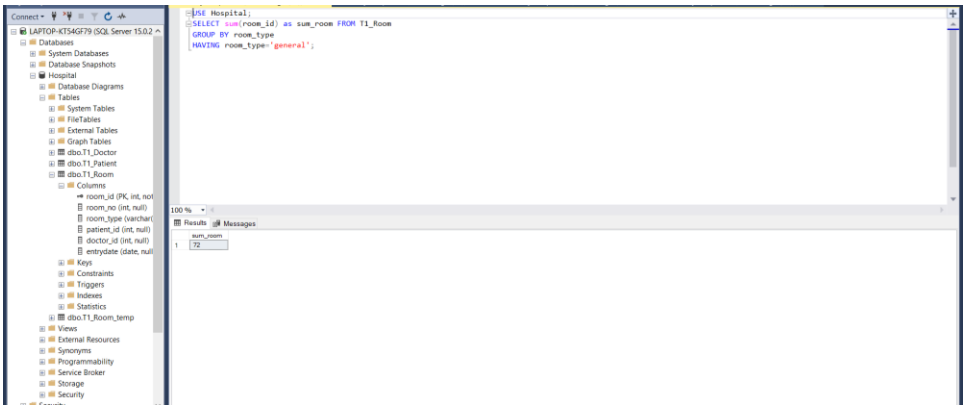
use Hospital
SELECT patient_id from T1_patient
GROUP BY patient_id having patient_id < 3 ;

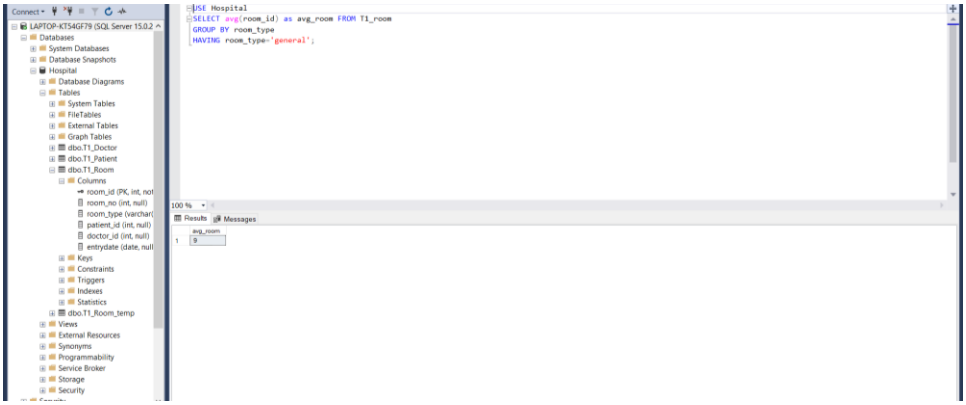

use Hospital
select room_type from T1_room
group by room_type having room_type ='ac' ;
room_type
ac

Q.4)


use Hospital
SELECT AVG(doctor_id) FROM T1_Room
GROUP BY room_type
HAVING room_type='ac';
(No column name)
2

use Hospital
SELECT COUNT(room_id)
FROM T1_Room
GROUP BY doctor_id
HAVING doctor_id = 1;
(No column name)
4

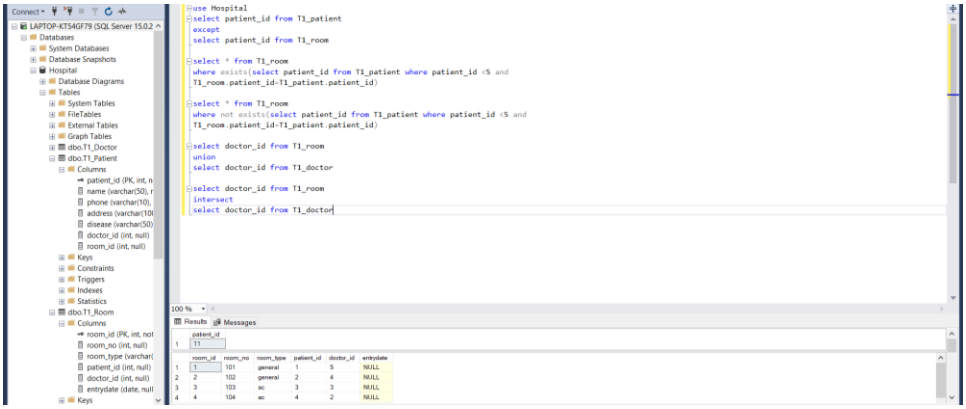

USE Hospital;
SELECT sum(room_id) as sum_room FROM T1_Room
GROUP BY room_type
HAVING room_type='general';
Results
Messages
sum_room
72

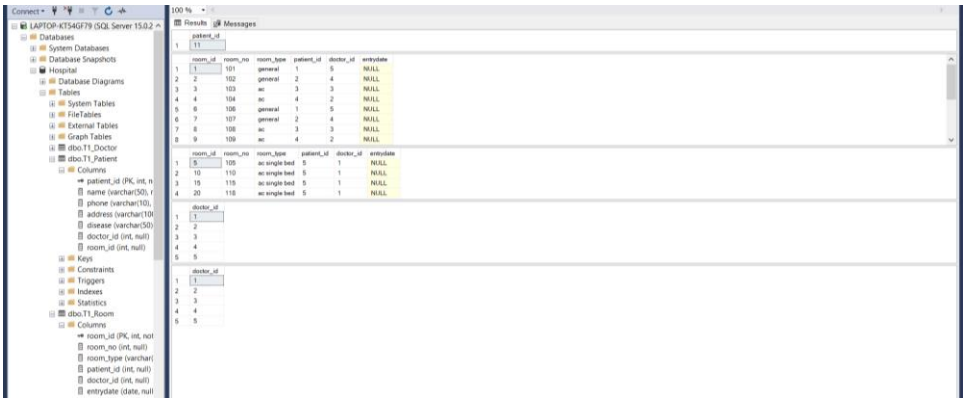

USE Hospital
SELECT avg(room_id) as avg_room FROM T1_room
GROUP BY room_type
HAVING room_type='general';
Results
Messages
avg_room
9

Use Hospital
SELECT count(room_id) as special_rooms FROM T1_room
GROUP BY room_type
HAVING room_type='general';
Results
Messages
special_rooms
8

Q.5)

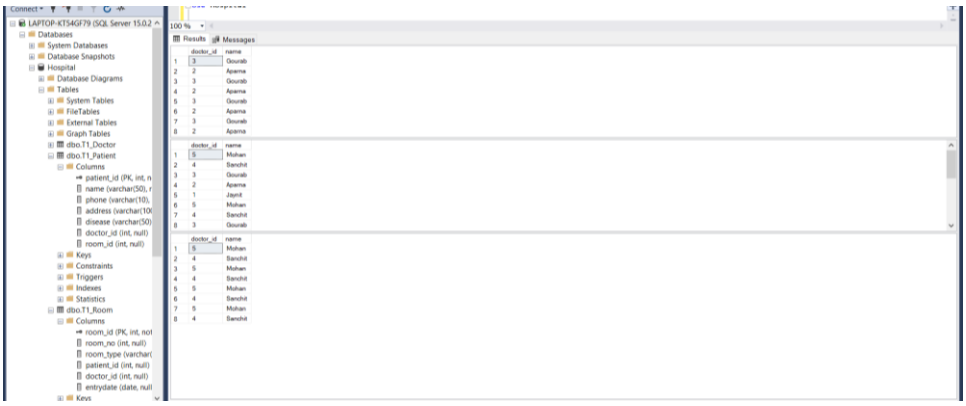
Q.6.)

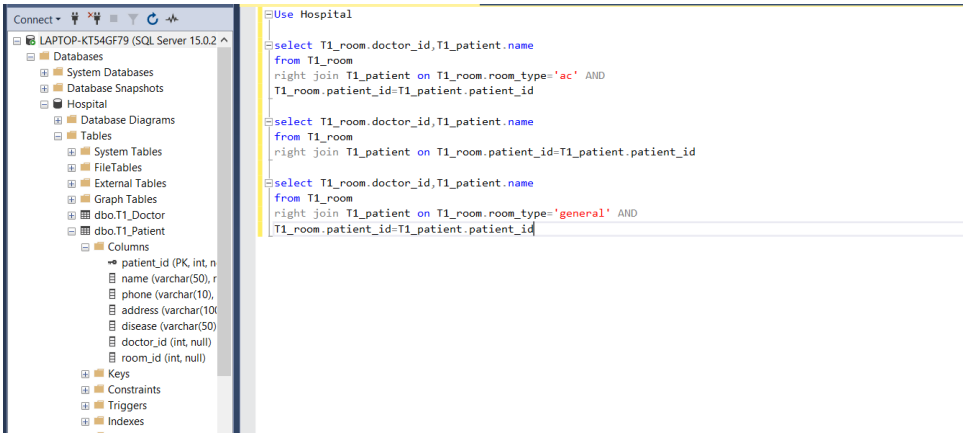




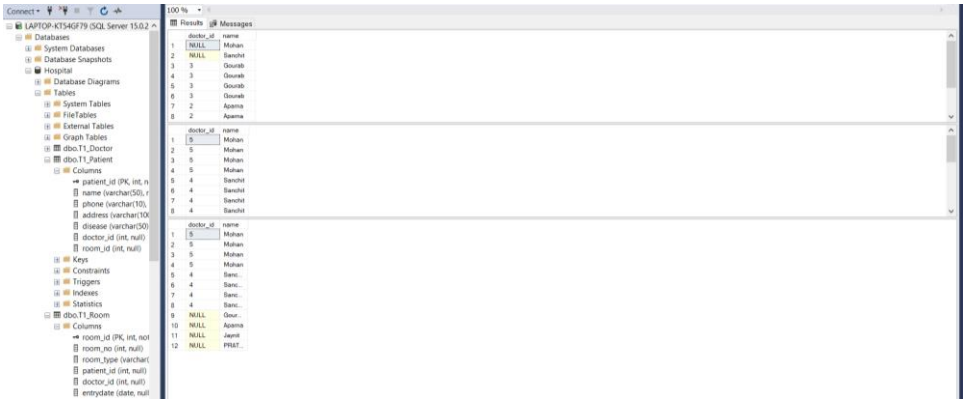
Q.7.)

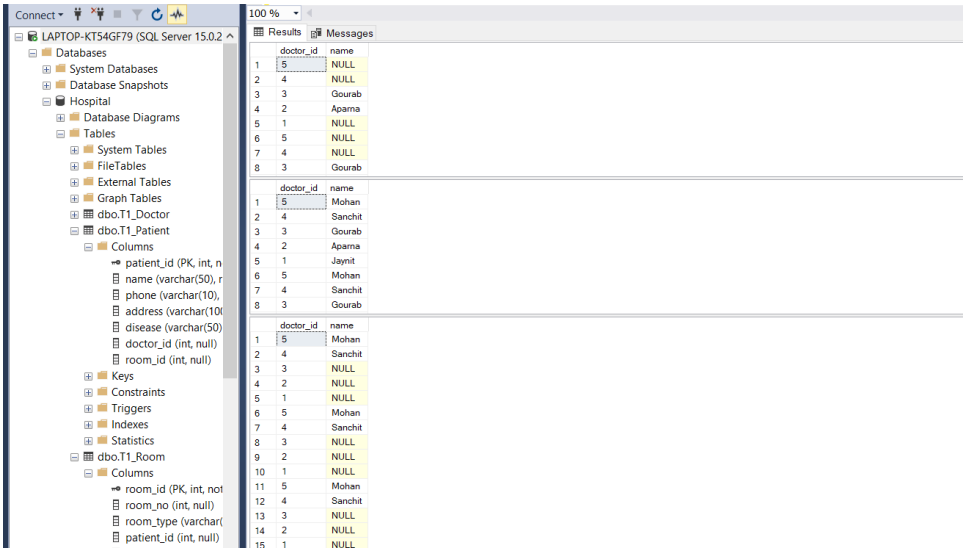
```
Use Hospital

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
```





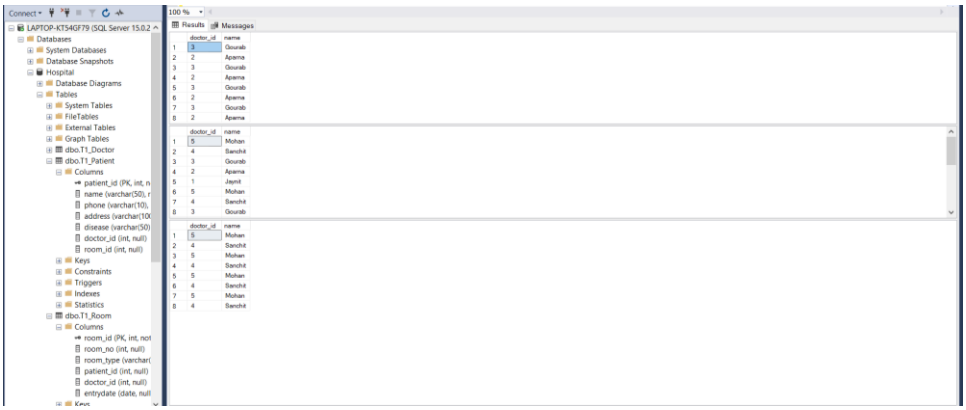
```
Use Hospital

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
```





Q.8.)

use hospital
select T1_room.doctor_id,T1_patient.name
from T1_room
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
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


Results
Messages
doctor_id name
1 3 Gourab
2 2 Aparna
3 3 Gourab
4 2 Aparna
5 3 Gourab
6 2 Aparna
7 3 Gourab
8 2 Aparna
doctor_id name
1 5 Mohan
2 4 Sanchit
3 3 Gourab
4 2 Aparna
5 1 Jaynit
6 5 Mohan
7 4 Sanchit
8 3 Gourab
doctor_id name
1 5 Mohan
2 4 Sanchit
3 5 Mohan
4 4 Sanchit
5 5 Mohan
6 4 Sanchit
7 5 Mohan
8 4 Sanchit