Name: Nihar Sanda

Reg. No.: 19BCS125

Q.1.

```
⊡use Hospital
     SELECT * FROM T1_Room
        WHERE room_no > ALL (SELECT room_no
                                            FROM T1 Room
                                           WHERE room_id < 10
                                            );
150 %

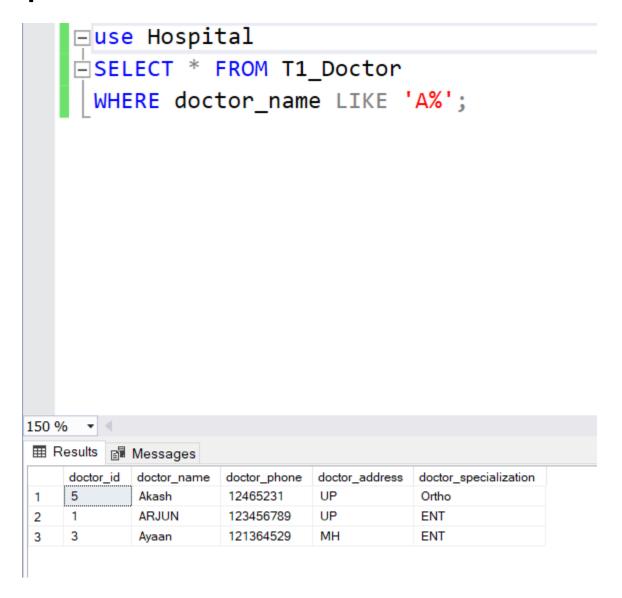
    ⊞ Results

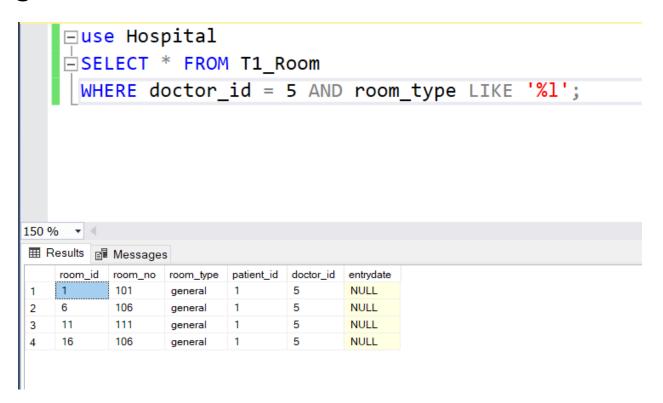
    Messages

                                                  entrydate
     room_id
             room_no
                     room_type
                                patient_id
                                         doctor_id
     10
             110
                                                  NULL
                     ac single bed
     11
                                 1
                                         5
                                                  NULL
             111
                     general
3
     12
             112
                                 2
                                         4
                                                  NULL
                     general
                                 3
                                          3
     13
             113
                     ac
                                                  NULL
5
     14
             114
                                 4
                                          2
                                                  NULL
                     ac
6
                     ac single bed
                                                  NULL
             115
                                 3
                                         3
7
     18
             116
                                                  NULL
                     ac
                                          2
8
     19
             117
                                 4
                                                  NULL
9
     20
             118
                     ac single bed
                                                  NULL
```

```
□SELECT * FROM T1_Doctor
      WHERE doctor_id > ALL (SELECT doctor_id
                                  FROM T1_Doctor
                                  WHERE doctor_address = 'MH'
                                 );
150 % ▼ 4
doctor_id doctor_name doctor_phone doctor_address doctor_specialization
  5 Akash
                  12465231
                           UP
                                    Ortho
2
                  124576989
          Mayank
                           Karnataka
                                    Liver
```

```
<u></u>use Hospital
    SELECT * FROM T1_Room
      WHERE room_id > ALL (SELECT room_id
                                 FROM T1_Room
                                 WHERE room_type = 'general'
                                 );
150 % ▼ <
patient_id doctor_id
                                      entrydate
   room_id room_no
                room_type
   18
          116
                         3
                               3
                                      NULL
                               2
                                      NULL
2
    19
          117
3
    20
          118
                ac single bed 5
                                      NULL
```





```
⊡use Hospital
     SELECT * FROM T1_Room
        WHERE room_type LIKE '%ac%';
150 % ▼ 4
room_id
             room_no
                                 patient_id
                                          doctor_id
                                                  entrydate
                     room_type
     3
             103
                      ac
                                 3
                                          3
                                                  NULL
 1
                                          2
             104
                                                  NULL
 2
                      ac
 3
     5
             105
                      ac single bed
                                 5
                                          1
                                                  NULL
 4
     8
             108
                      ac
                                 3
                                          3
                                                  NULL
                                          2
5
             109
                      ac
                                                  NULL
                                          1
     10
             110
                      ac single bed
                                                  NULL
 6
 7
     13
             113
                                 3
                                          3
                                                  NULL
                      ac
                                                  NULL
 8
     14
             114
                                          2
                                          1
                                                  NULL
     15
             115
                      ac single bed
                                 5
                                 3
                                          3
                                                  NULL
 10
     18
             116
                      ac
                                          2
 11
     19
             117
                                 4
                                                  NULL
 12
     20
             118
                      ac single bed
                                                  NULL
```

```
<u>□use</u> Hospital

     SELECT AVG(doctor_id) FROM T1_Room;
150 % ▼ ◀
(No column name)

<u>□use</u> Hospital

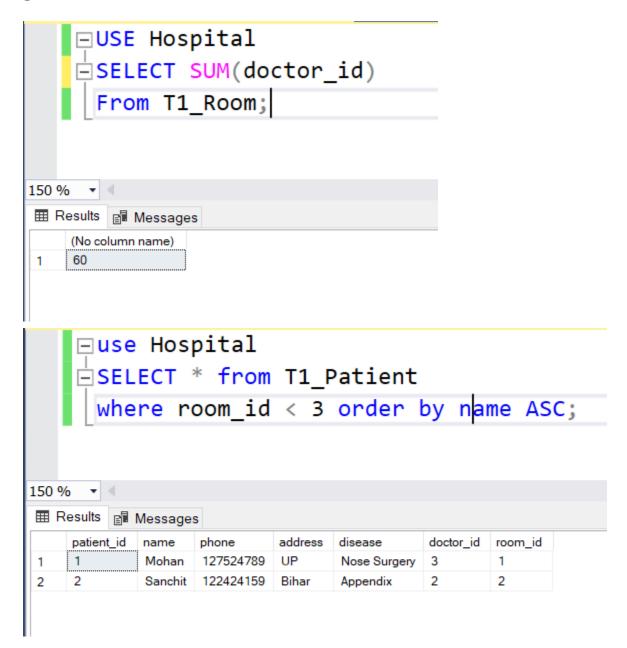
   SELECT COUNT(*)
     FROM T1_Room
     WHERE room_no>110;
150 % ▼
(No column name)
```

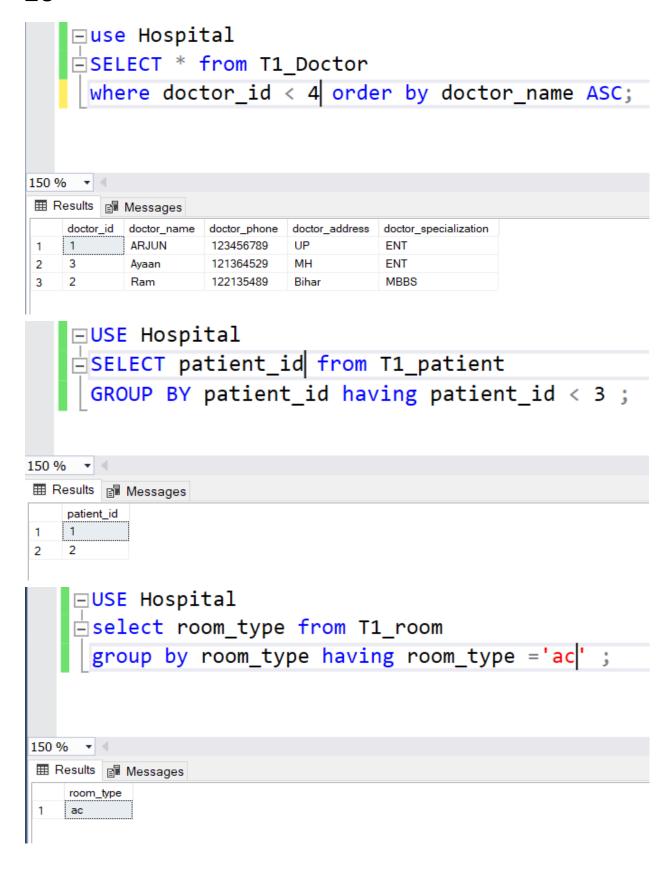
```
□USE Hospital

   SELECT MAX(doctor_id)
    From T1_Room;
150 % ▼ 4
(No column name)

□USE Hospital

   SELECT MIN (doctor_id)
    From T1_Room;
150 % ▼ 4
(No column name)
```





```
  □use Hospital

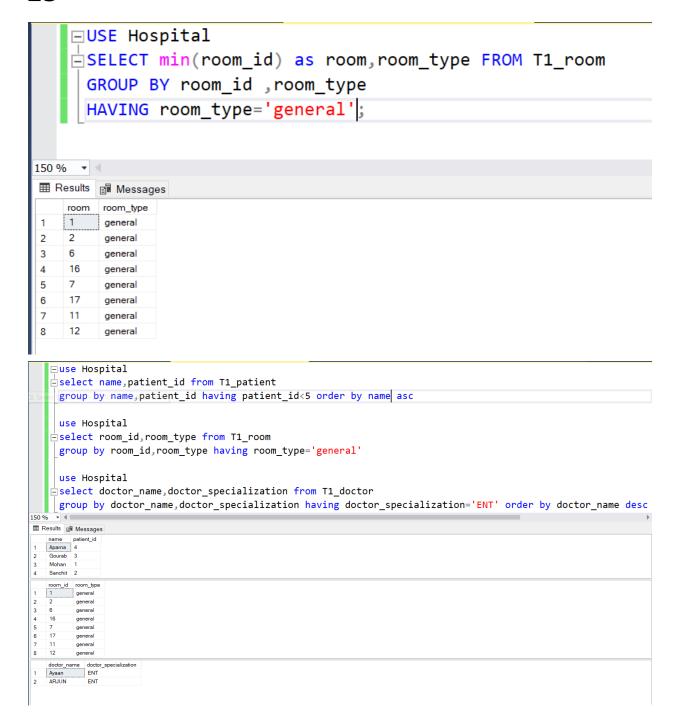
   □SELECT AVG(doctor_id) FROM T1_Room
    GROUP BY room_type
     HAVING room_type='ac';
150 % ▼ 4

    ■ Results    ■ Messages
   (No column name)

<u>□use</u> Hospital

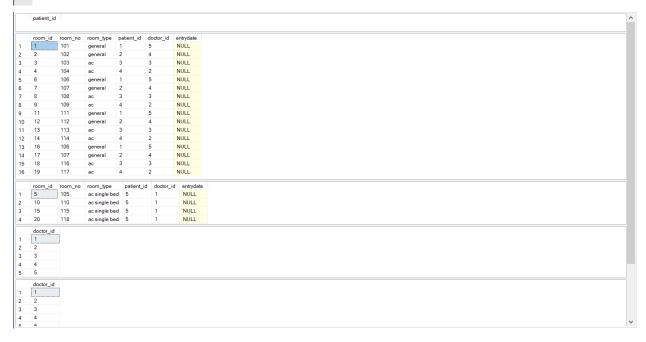
   FROM T1_Room
     GROUP BY doctor_id
     HAVING doctor_id = 1;
150 % ▼ 4
(No column name)
```

```
□USE Hospital;
   SELECT sum(room_id) as sum_room FROM T1_Room
     GROUP BY room_type
     HAVING room_type='general';
150 % ▼ ◀
sum_room
   □USE Hospital
   SELECT max(room_id) as room,room_type FROM T1_room
     GROUP BY room id , room type
    HAVING room_type='general';
150 % ▼ ◀
room_type
1 1 general
2 2 general
      general
4 16 general
5 7 general
6 17 general
  11 general
  12 general
```



```
<u>□use</u> Hospital

except
 select patient_id from T1_room
where exists(select patient_id from T1_patient where patient_id <5 and
 T1_room.patient_id=T1_patient.patient_id)
where not exists(select patient_id from T1_patient where patient_id <5 and
 T1_room.patient_id=T1_patient.patient_id)
iselect doctor_id from T1_room
 union
 select doctor_id from T1_doctor
iselect doctor_id from T1_room
 intersect
 select doctor_id from T1_doctor
```



```
<u>□Use</u> 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
from T1 room
 inner join T1_patient on T1_room.patient_id=T1_patient.patient_id
from T1 room
 inner join T1_patient on T1_room.room_type='general' AND
 T1_room.patient_id=T1_patient.patient_id
 Aparna
 Apama
 Mohan
 Sanchit
```

```
□Use Hospital
 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
 from T1 room
  left join T1_patient on T1_room.room_type='general' AND
  T1_room.patient_id=T1_patient.patient_id
doctor_id name
5 NULL
   Gourab
   Aparna
   NULL
   NULL
NULL
   Sanchit
   Mohan
doctor_id name
5 Mohan
   NULL
   Mohan
   NULL
```

```
□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
 from T1_room
   right join T1_patient on T1_room.patient_id=T1_patient.patient_id
 from T1 room
   right join T1_patient on T1_room.room_type='general' AND
   T1_room.patient_id=T1_patient.patient_id
 doctor_id name
NULL Mohan
     Gourab
     Gourab
9
10
     Apama
    name
Mohan
     Mohan
     Sanchit
     Sanchit
9
10
11
     Mohan
 NULL Gour...
```

	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
13	5	Mohan
14	4	Sanchit
15	3	Gourab
16	2	Aparna
17	1	Jaynit
18	3	Gourab
19	2	Aparna
20	1	Jaynit
	dostor id	
	doctor_id 5	name Mohan
1	4	Sanchit
3	5	Mohan
	5	Mohan
4		
5	4	Sanchit
6	4	Sanchit
7	5	Mohan
8	4	Sanchit