

**Name: Nihar Sanda**

**Reg No: 19BCS125**

## 1.A

```
use Hospital  
ALTER TABLE T1_Room  
ADD room_address VARCHAR(100)|
```

150 %

Messages

Commands completed successfully.

Completion time: 2021-02-19T16:00:25.0206203+05:30

Connect ▾



localhost (SQL Server 15.0.2000.5 - LAPTOP-F8TGAA78\Nihar)

[-] Databases

[+] System Databases

[+] Database Snapshots

[-] Hospital

[-] Database Diagrams

[-] Tables

[+] System Tables

[+] FileTables

[+] External Tables

[+] Graph Tables

[-] dbo.T1\_Room

[-] Columns

room\_id (PK, int, not null)

room\_no (int, null)

room\_type (varchar(30), null)

patient\_id (int, null)

doctor\_id (int, null)

room\_address (varchar(100), null)

# 1.B

```
use Hospital
ALTER TABLE T1_Room
ALTER COLUMN room_address INT
```

150 %


Messages

Commands completed successfully.

Completion time: 2021-02-19T16:03:30.4807673+05:30

[-]  localhost (SQL Server 15.0.2000.5 - LAPTOP-F8TGAA78\Nihar)

[-]  Databases


[-]  System Databases

[-]  Database Snapshots

[-]  Hospital

[-]  Database Diagrams

[-]  Tables

[-]  System Tables

[-]  FileTables

[-]  External Tables

[-]  Graph Tables

[-]  dbo.T1\_Room

[-]  Columns


 room\_id (PK, int, not null)

 room\_no (int, null)

 room\_type (varchar(30), null)

 patient\_id (int, null)

 doctor\_id (int, null)

 room\_address (int, null)

# 1.C

```
use Hospital
ALTER TABLE T1_Room
DROP COLUMN room_address|
```

150 %


Messages


Commands completed successfully.


Completion time: 2021-02-19T16:05:08.4626512+05:30


[-]  localhost (SQL Server 15.0.2000.5 - LAPTOP-F8TGAA78\Nihar)

[-]  Databases


  [+]  System Databases

  [+]  Database Snapshots

  [-]  Hospital


    [+]  Database Diagrams

    [-]  Tables

      [+]  System Tables

      [+]  FileTables

      [+]  External Tables

      [+]  Graph Tables

    [-]  dbo.T1\_Room

      [-]  Columns

        🔑 room\_id (PK, int, not null)

        📄 room\_no (int, null)

        📄 room\_type (varchar(30), null)

        📄 patient\_id (int, null)

        📄 doctor\_id (int, null)

# 2

```
SQLQuery1.sql - lo...TGAA78\Nihar (61))+ -  X
```

```
use Hospital
INSERT INTO T1_Room(room_id,room_no,room_type,patient_id,doctor_id ) VALUES('1','101','general',
INSERT INTO T1_Room(room_id,room_no,room_type,patient_id,doctor_id ) VALUES('2','102','general',
INSERT INTO T1_Room(room_id,room_no,room_type,patient_id,doctor_id ) VALUES('3','103','ac','3',
INSERT INTO T1_Room(room_id,room_no,room_type,patient_id,doctor_id ) VALUES('4','104','ac','4',
INSERT INTO T1_Room(room_id,room_no,room_type,patient_id,doctor_id ) VALUES('5','105','ac','5',
```

150 %

Messages

(1 row affected)

(1 row affected)

(1 row affected)

(1 row affected)

(1 row affected)

Completion time: 2021-02-19T16:30:40.2556286+05:30

use Hospital

```
INSERT INTO T1_Room VALUES('6','106','general','1','5')
INSERT INTO T1_Room VALUES('7','107','general','2','4')
INSERT INTO T1_Room VALUES('8','108','ac','3','3')
INSERT INTO T1_Room VALUES('9','109','ac','4','2')
INSERT INTO T1_Room VALUES('10','110','ac','5','1')
INSERT INTO T1_Room VALUES('11','111','general','1','5')
INSERT INTO T1_Room VALUES('12','112','general','2','4')
INSERT INTO T1_Room VALUES('13','113','ac','3','3')
INSERT INTO T1_Room VALUES('14','114','ac','4','2')
INSERT INTO T1_Room VALUES('15','115','ac','5','1')
```

150 %

Messages

(1 row affected)

(1 row affected)

(1 row affected)

(1 row affected)

(1 row affected)

(1 row affected)

(1 row affected)



[-] Use Hospital

[-] INSERT INTO T1\_Room(room\_id,room\_no,room\_type,patient\_id,doctor\_id )  
[(SELECT room\_id,room\_no,room\_type,patient\_id,doctor\_id from T1\_Room\_temp)]

150 %

[-] Messages

(5 rows affected)

Completion time: 2021-02-19T16:49:40.8783550+05:30

 SELECT \*

FROM dbo.T1\_ROOM;

150 %



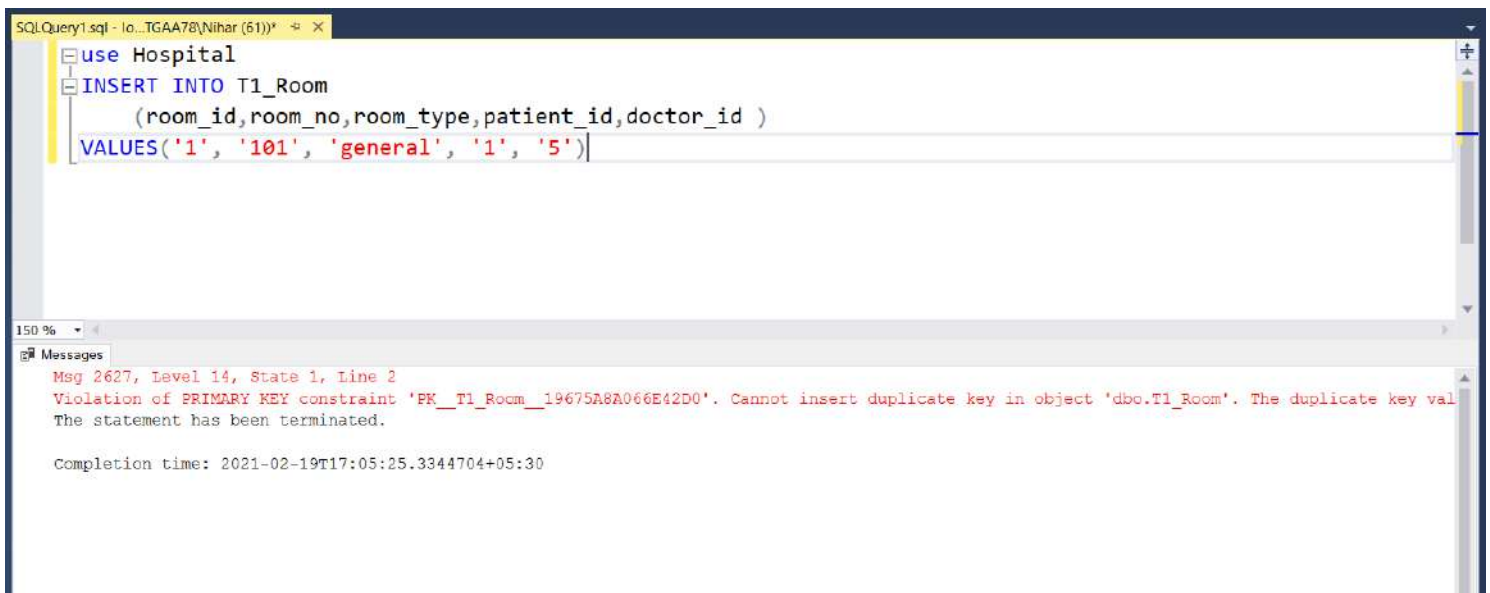
Results



Messages

|    | room_id | room_no | room_type | patient_id | doctor_id |
|----|---------|---------|-----------|------------|-----------|
| 1  | 1       | 101     | general   | 1          | 5         |
| 2  | 2       | 102     | general   | 2          | 4         |
| 3  | 3       | 103     | ac        | 3          | 3         |
| 4  | 4       | 104     | ac        | 4          | 2         |
| 5  | 5       | 105     | ac        | 5          | 1         |
| 6  | 6       | 106     | general   | 1          | 5         |
| 7  | 7       | 107     | general   | 2          | 4         |
| 8  | 8       | 108     | ac        | 3          | 3         |
| 9  | 9       | 109     | ac        | 4          | 2         |
| 10 | 10      | 110     | ac        | 5          | 1         |
| 11 | 11      | 111     | general   | 1          | 5         |
| 12 | 12      | 112     | general   | 2          | 4         |
| 13 | 13      | 113     | ac        | 3          | 3         |
| 14 | 14      | 114     | ac        | 4          | 2         |
| 15 | 15      | 115     | ac        | 5          | 1         |
| 16 | 16      | 106     | general   | 1          | 5         |
| 17 | 17      | 107     | general   | 2          | 4         |
| 18 | 18      | 116     | ac        | 3          | 3         |
| 19 | 19      | 117     | ac        | 4          | 2         |
| 20 | 20      | 118     | ac        | 5          | 1         |

# 3.A



The screenshot shows a SQL Server Enterprise Manager window with a query editor and a messages pane. The query editor contains the following SQL code:

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

The messages pane displays the following error message:

```
Msg 2627, Level 14, State 1, Line 2
Violation of PRIMARY KEY constraint 'FK_T1_Room__19675A8A066E42D0'. Cannot insert duplicate key in object 'dbo.T1_Room'. The duplicate key val
The statement has been terminated.
```

Completion time: 2021-02-19T17:05:25.3344704+05:30

## 3.B

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

150 %

Messages

Msg 515, Level 16, State 2, Line 2  
Cannot insert the value NULL into column 'room\_id', table 'Hospital.dbo.T1\_Room'; column does not allow nulls. INSERT fails.  
The statement has been terminated.

Completion time: 2021-02-19T17:07:49.7025815+05:30

# 3.C

```
use Hospital
INSERT INTO T1_Room
    (room_id,room_no,room_type,patient_name, patient_id,doctor_id )
VALUES(null, '101', 'general','Nihar' , '1', '5')
```

150 %

## Messages

```
Msg 207, Level 16, State 1, Line 2
Invalid column name 'Nihar'.
Msg 207, Level 16, State 1, Line 2
Invalid column name 'patient_name'.
```

Completion time: 2021-02-19T17:09:43.0539156+05:30

# 5

SQLQuery1.sql - lo...TGAA78\Nihar (61))\*

```
use Hospital
ALTER TABLE T1_Room
DROP COLUMN room_id
```

150 %

Messages

Msg 5074, Level 16, State 1, Line 2  
The object 'PK\_\_T1\_Room\_\_19675A8A066E42D0' is dependent on column 'room\_id'.  
Msg 4922, Level 16, State 9, Line 2  
ALTER TABLE DROP COLUMN room\_id failed because one or more objects access this column.

Completion time: 2021-02-19T17:31:38.8359936+05:30

# 6

```
= use Hospital  
= UPDATE T1_Room  
  SET room_type = 'ac single bed'  
  WHERE doctor_id = 1;
```

150 %

Messages

(4 rows affected)

Completion time: 2021-02-19T17:27:28.8670415+05:30

```
SELECT *  
FROM dbo.T1_Room
```

150 %

Results Messages

|    | room_id | room_no | room_type     | patient_id | doctor_id | entrydate |
|----|---------|---------|---------------|------------|-----------|-----------|
| 1  | 1       | 101     | general       | 1          | 5         | NULL      |
| 2  | 2       | 102     | general       | 2          | 4         | NULL      |
| 3  | 3       | 103     | ac            | 3          | 3         | NULL      |
| 4  | 4       | 104     | ac            | 4          | 2         | NULL      |
| 5  | 5       | 105     | ac single bed | 5          | 1         | NULL      |
| 6  | 6       | 106     | general       | 1          | 5         | NULL      |
| 7  | 7       | 107     | general       | 2          | 4         | NULL      |
| 8  | 8       | 108     | ac            | 3          | 3         | NULL      |
| 9  | 9       | 109     | ac            | 4          | 2         | NULL      |
| 10 | 10      | 110     | ac single bed | 5          | 1         | NULL      |
| 11 | 11      | 111     | general       | 1          | 5         | NULL      |
| 12 | 12      | 112     | general       | 2          | 4         | NULL      |
| 13 | 13      | 113     | ac            | 3          | 3         | NULL      |
| 14 | 14      | 114     | ac            | 4          | 2         | NULL      |
| 15 | 15      | 115     | ac single bed | 5          | 1         | NULL      |
| 16 | 16      | 106     | general       | 1          | 5         | NULL      |
| 17 | 17      | 107     | general       | 2          | 4         | NULL      |
| 18 | 18      | 116     | ac            | 3          | 3         | NULL      |
| 19 | 19      | 117     | ac            | 4          | 2         | NULL      |
| 20 | 20      | 118     | ac single bed | 5          | 1         | NULL      |



# 7




















```
= use Hospital  
= ALTER TABLE T1_Room  
  ADD entrydate date default getdate()
```

150 %

Messages

Commands completed successfully.

Completion time: 2021-02-19T17:19:22.9685215+05:30

- [-]  localhost (SQL Server 15.0.2000.5 - LAPTOP-F8T)
- [-]  Databases
  - [+]  System Databases
  - [+]  Database Snapshots
  - [-]  Hospital
    - [+]  Database Diagrams
    - [-]  Tables
      - [+]  System Tables
      - [+]  FileTables
      - [+]  External Tables
      - [+]  Graph Tables
      - [-]  **dbo.T1\_Room**
        - [-]  Columns
          -  room\_id (PK, int, not null)
          -  room\_no (int, null)
          -  room\_type (varchar(30), null)
          -  patient\_id (int, null)
          -  doctor\_id (int, null)
          -  entrydate (date, null)