

# DBMS LAB ASSIGNMENT 3

NAME: HENI PRAJAPATI

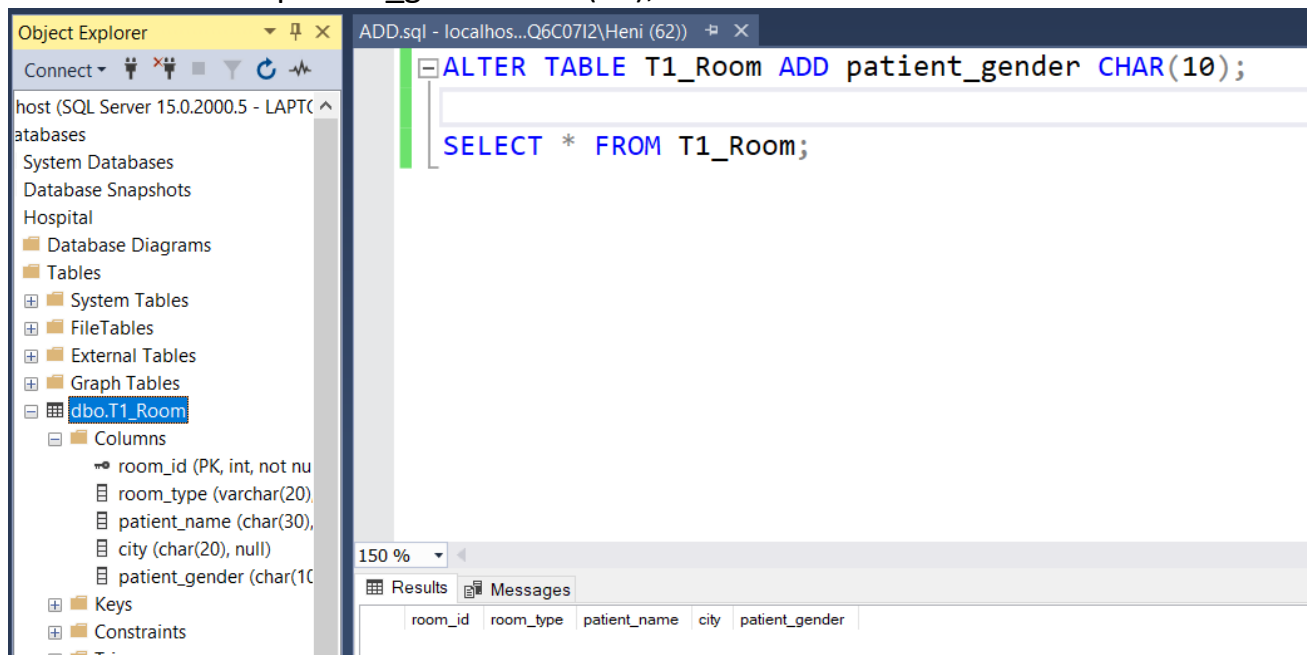
REG. NO.: 19BCS119

## 1. QUERY:

### a. ADD

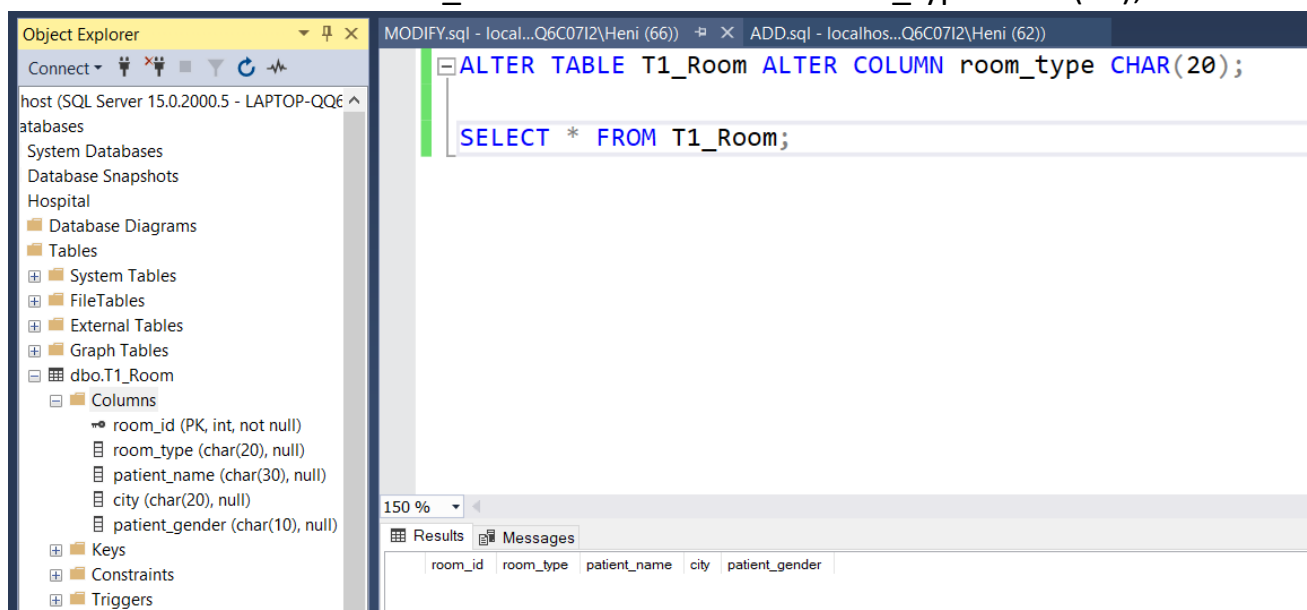
ALTER TABLE T1\_Room

ADD patient\_gender char(10);



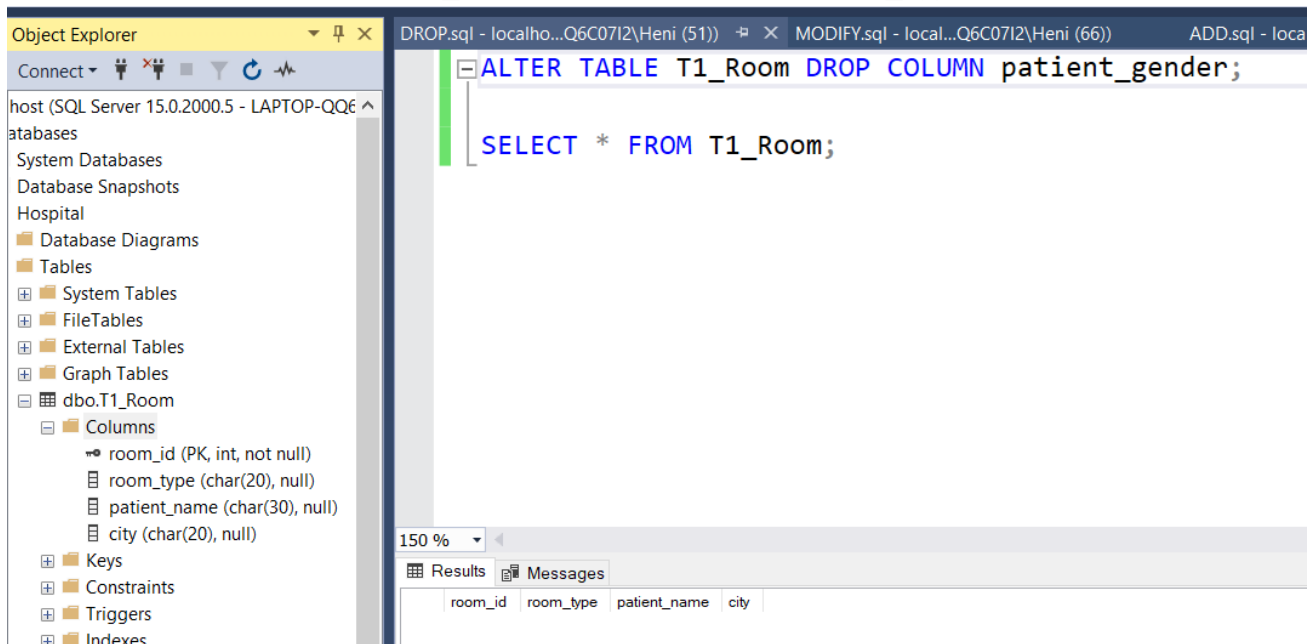
### b. MODIFY

ALTER TABLE T1\_Room ALTER COLUMN room\_type CHAR(20);



### c. DROP

ALTER TABLE T1\_Room DROP COLUMN room\_type CHAR(20);



## 2. INSERT

```
INSERT INTO dbo.T1_Room  
(room_id, room_type, patient_name, city, patient_gender)
```

VALUES

```
(1, 'Deluxe', 'Priya Patel', 'Surat', 'Female'),  
(null, 'Special', 'Sonia Kaur', 'Mumbai', 'Female'),  
(3, 'Deluxe', 'Raj Gandhi', 'Jaipur', 'Male'),  
(4, 'Special', 'Priya Patel', 'Surat', 'Female'),  
(5, 'Deluxe', 'Priya Patel', 'Surat', 'Female'),  
(6, 'Special', 'Priya Patel', 'Surat', 'Female'),  
(7, 'Special', 'Amit Patel', 'Delhi', 'Male'),  
(8, 'Deluxe', 'Priya Patel', 'Rajkot', 'Female'),  
(9, 'Deluxe', 'Priya Patel', 'Surat', 'Female'),  
(10, 'Deluxe', 'Raj Patel', 'Mumbai', 'Male'),  
(11, 'Deluxe', 'Priya Patel', 'Surat', 'Female'),  
(12, 'Deluxe', 'Priya Patel', 'Surat', 'Female'),  
(13, 'Deluxe', 'Priya Patel', 'Surat', 'Female'),  
(14, 'Deluxe', 'Komal Sharma', 'Surat', 'Female'),  
(15, 'Deluxe', 'Priya Patel', 'Surat', 'Female'),  
(16, 'Special', 'Priya Patel', 'Surat', 'Female'),  
(17, 'Special', 'Priya Patel', 'Surat', 'Female'),  
(18, 'Deluxe', 'Priya Patel', 'Surat', 'Female'),  
(19, 'Special', 'Priya Patel', 'Surat', 'Female'),  
(20, 'Deluxe', 'Priya Patel', 'Surat', 'Female'),  
(20, 'Deluxe', 'Priya Patel', 'Surat', 'Female');  
  
SELECT * FROM T1_Room
```

## OUTPUT:

The screenshot shows the SQL Server Enterprise Manager interface. On the left, the Object Explorer displays the database structure for 'Hospital' > 'dbo'. The 'dbo.T1\_Room' table is selected, showing its columns: room\_id (PK, int, not null), room\_type (char(20), null), patient\_name (char(30), null), city (char(20), null), and patient\_gender (char(10), null). The main pane shows the 'INSERT.sql' script with six rows of data. Below the script, the 'Results' tab displays the data inserted into the table.

room_id	room_type	patient_name	city	patient_gender
1	Deluxe	Priya Patel	Surat	Female
2	Special	Sonia Kaur	Mumbai	Female
3	Deluxe	Raj Gandhi	Jaipur	Male
4	Special	Priya Patel	Surat	Female
5	Deluxe	Priya Patel	Surat	Female
6	Special	Priya Patel	Surat	Female
7	Special	Amit Patel	Delhi	Male
8	Deluxe	Priya Patel	Rajkot	Female
9	Deluxe	Priya Patel	Surat	Female
10	Deluxe	Raj Patel	Mumbai	Male
11	Deluxe	Priya Patel	Surat	Female
12	Deluxe	Priya Patel	Surat	Female
13	Deluxe	Priya Patel	Surat	Female
14	Deluxe	Komal Sharma	Surat	Female
15	Deluxe	Priya Patel	Surat	Female
16	Special	Priya Patel	Surat	Female
17	Special	Priya Patel	Surat	Female
18	Deluxe	Priya Patel	Surat	Female
19	Special	Priya Patel	Surat	Female
20	Deluxe	Priya Patel	Surat	Female

## 3. OUTPUT

The screenshot shows the SQL Server Enterprise Manager interface. The main pane displays the 'INSERT.sql' script with three rows of data. Below the script, the 'Results' tab shows an error message: 'Msg 2627, Level 14, State 1, Line 1 Violation of PRIMARY KEY constraint 'PK\_\_T1\_Room\_\_19675A8A9FA18CE7'. Cannot insert duplicate key in object 'dbo.T1\_Room'. The duplicate key value is (19, 'Special', 'Priya Patel', 'Surat', 'Female'). The statement has been terminated.' Below the error message, it indicates '(20 rows affected)' and 'Completion time: 2021-02-19T15:56:52.7647893+05:30'.

```
INSERT INTO dbo.T1_Room
(room_id, room_type, patient_name, city, patient_gender)

VALUES
(1, 'Deluxe', 'Priya Patel', 'Surat', 'Female'),
(null, 'Special', 'Sonia Kaur', 'Mumbai', 'Female'),
(3, 'Deluxe', 'Raj Gandhi', 'Jaipur', 'Male'),
(4, 'Special', 'Priya Patel', 'Surat', 'Female'),
(5, 'Deluxe', 'Priya Patel', 'Surat', 'Female'),
(6, 'Special', 'Priya Patel', 'Surat', 'Female'),
(7, 'Special', 'Amit Patel', 'Delhi', 'Male'),
(8, 'Deluxe', 'Priya Patel', 'Rajkot', 'Female'),
(9, 'Deluxe', 'Priya Patel', 'Surat', 'Female')
```

Msg 2627, Level 14, State 1, Line 1  
Violation of PRIMARY KEY constraint 'FK\_T1\_Room\_19675A8A9FA1ECE7'. Cannot insert duplicate key in object 'dbo.T1\_Room'. The statement has been terminated.

(20 rows affected)

Completion time: 2021-02-19T16:08:03.5339605+05:30

## 4. OUTPUT

```
INSERT INTO T1_Bill VALUES('RAMESH','SURESH','Food Infection',1,null,'GPay')

SELECT * FROM T1_Bill;
```

Msg 515, Level 16, State 2, Line 1  
Cannot insert the value NULL into column 'room\_id', table 'Hospital.dbo.T1\_Bill'; column does not allow nulls. INSERT fails. The statement has been terminated.

(0 rows affected)

Completion time: 2021-02-19T16:21:21.8637377+05:30

## 5. OUTPUT

```
ALTER TABLE T1_Bill
DROP COLUMN room_id
```

Msg 5074, Level 16, State 1, Line 1  
The object 'FK\_T1\_Bill\_room\_id\_403A8C7D' is dependent on column 'room\_id'.  
Msg 4922, Level 16, State 9, Line 1  
ALTER TABLE DROP COLUMN room\_id failed because one or more objects access this column.

Completion time: 2021-02-19T16:23:03.2569728+05:30

## 6. OUTPUT

The screenshot displays the SQL Server Enterprise Manager interface. On the left, the Object Explorer shows the 'Hospital' database structure, including tables like 'dbo.T1\_Bill', 'dbo.T1\_Patient', and 'dbo.T1\_Room'. The main pane shows a SQL query in 'SQLQuery8.sql':

```
UPDATE T1_Room
SET patient_name = 'mahesh'
WHERE room_type = 'VIP ROOM';
```

The query execution results are shown in the Messages pane:

```
(0 rows affected)

Completion time: 2021-02-19T16:25:24.5904584+05:30
```

## 7. OUTPUT

The screenshot displays the SQL Server Enterprise Manager interface. On the left, the Object Explorer shows the 'Hospital' database structure, including tables like 'dbo.T1\_Bill', 'dbo.T1\_Patient', 'dbo.T1\_Room', and 'dbo.T1\_Staff'. The main pane shows a SQL query in 'SQLQuery8.sql':

```
ALTER TABLE T1_Room
ADD entrydata date default getdate();
```

The query execution results are shown in the Messages pane:

```
Commands completed successfully.

Completion time: 2021-02-19T16:27:23.1815679+05:30
```

## 8. OUTPUT

The screenshot displays the SQL Server Enterprise Manager interface on the left and the SQL Query Editor on the right.

**SQL Server Enterprise Manager (Left Panel):**

- System Tables
- FileTables
- External Tables
- Graph Tables
- dbo.T1\_Bill
  - Columns
    - p\_name (PK, char(50), not null)
    - d\_name (char(50), null)
    - disease (char(30), null)
    - patient\_id (int, not null)
    - room\_id (FK, int, not null)
    - payment\_method (char(20))
  - Keys
  - Constraints
  - Triggers
  - Indexes
  - Statistics
- dbo.T1\_Patient
- dbo.T1\_Room
- dbo.T1\_Staff
- Views
- External Resources
- Synonyms
- Programmability
- Service Broker
- Storage
- Security

**SQL Query Editor (Right Panel):**

SQLQuery8.sql - Io...Q6C0712\Hen1 (60) | SQLQuery7.sql - Io...Q6C0712\Hen1 (61) | SQLQuery6.sql - Io...Q6C0712\Hen1 (62)

SELECT room\_type, city, patient\_name FROM T1\_Room;

**Results (Top):**

room_id	room_type	patient_name	city	patient_gender	patient_id	entrydata
1	Deluxe	maresh	Surat	Female	NULL	NULL
2	Special	Sonia Kaur	Mumbai	Female	NULL	NULL
3	Deluxe	maresh	Jaipur	Male	NULL	NULL
4	Special	Priya Patel	Surat	Female	NULL	NULL
5	Deluxe	maresh	Surat	Female	NULL	NULL
6	Special	Priya Patel	Surat	Female	NULL	NULL
7	Special	Amit Patel	Delhi	Male	NULL	NULL
8	Deluxe	maresh	Rajkot	Female	NULL	NULL
9	Deluxe	maresh	Surat	Female	NULL	NULL
10	Deluxe	maresh	Mumbai	Male	NULL	NULL
11	Deluxe	maresh	Surat	Female	NULL	NULL
12	Deluxe	maresh	Surat	Female	NULL	NULL
13	Deluxe	maresh	Surat	Female	NULL	NULL
14	Deluxe	maresh	Surat	Female	NULL	NULL
15	Deluxe	maresh	Surat	Female	NULL	NULL
16	Special	Priya Patel	Surat	Female	NULL	NULL
17	Special	Priya Patel	Surat	Female	NULL	NULL
18	Deluxe	maresh	Surat	Female	NULL	NULL
19	Special	Priya Patel	Surat	Female	NULL	NULL
20	Deluxe	maresh	Surat	Female	NULL	NULL

**Results (Bottom):**

room_type	city	patient_name
Deluxe	Surat	maresh
Special	Mumbai	Sonia Kaur
Deluxe	Jaipur	maresh
Special	Surat	Priya Patel
Deluxe	Surat	maresh
Special	Surat	Priya Patel
Special	Delhi	Amit Patel
Deluxe	Rajkot	maresh
Deluxe	Surat	maresh
Deluxe	Mumbai	maresh
Deluxe	Surat	maresh
Deluxe	Surat	maresh
Deluxe	Surat	maresh
Deluxe	Surat	maresh
Special	Surat	Priya Patel
Special	Surat	Priya Patel
Deluxe	Surat	maresh
Special	Surat	Priya Patel
Deluxe	Surat	maresh

Object Explorer

Connect

localhost (SQL Server 15.0.2000.5 - LAPTOP-...)

Databases

System Databases

Database Snapshots

Hospital

Database Diagrams

Tables

System Tables

FileTables

External Tables

Graph Tables

dbo.T1\_Bill

Columns

p\_name (PK, char(50), not null)

d\_name (char(50), null)

disease (char(30), null)

patient\_id (int, not null)

room\_id (FK, int, not null)

payment\_method (char(20))

Keys

Constraints

Triggers

Indexes

Statistics

SQLQuery8.sql - Io...Q6C07I2\Heni (60))

SQLQuery7.sql - Io...Q6C07I2\Heni (61))

SQLQuery6.sql - Io...Q6C07I2\Heni (56))

```
SELECT room_type, city, patient_name
FROM T1_Room WHERE patient_name = 'mahesh';
```

150 %

Results

Messages

	room_type	city	patient_name
1	Deluxe	Surat	mahesh
2	Deluxe	Jaipur	mahesh
3	Deluxe	Surat	mahesh
4	Deluxe	Rajkot	mahesh
5	Deluxe	Surat	mahesh
6	Deluxe	Mumbai	mahesh
7	Deluxe	Surat	mahesh
8	Deluxe	Surat	mahesh
9	Deluxe	Surat	mahesh
10	Deluxe	Surat	mahesh
11	Deluxe	Surat	mahesh
12	Deluxe	Surat	mahesh
13	Deluxe	Surat	mahesh

Object Explorer

Connect

localhost (SQL Server 15.0.2000.5 - LAPTOP-...)

Databases

System Databases

Database Snapshots

Hospital

Database Diagrams

Tables

System Tables

FileTables

External Tables

Graph Tables

dbo.T1\_Bill

Columns

p\_name (PK, char(50), not null)

d\_name (char(50), null)

disease (char(30), null)

patient\_id (int, not null)

room\_id (FK, int, not null)

payment\_method (char(20))

Keys

Constraints

Triggers

Indexes

Statistics

dbo.T1\_Patient

dbo.T1\_Room

dbo.T1\_Staff

Views

External Resources

Synonyms

SQLQuery8.sql - Io...Q6C07I2\Heni (60))

SQLQuery7.sql - Io...Q6C07I2\Heni (61))

SQLQuery6.sql - Io...Q6C07I2\Heni (56))

```
SELECT room_type, city, patient_name
FROM T1_Room WHERE city = 'Surat';
```

150 %

Results

Messages

	room_type	city	patient_name
1	Deluxe	Surat	mahesh
2	Special	Surat	Priya Patel
3	Deluxe	Surat	mahesh
4	Special	Surat	Priya Patel
5	Deluxe	Surat	mahesh
6	Deluxe	Surat	mahesh
7	Deluxe	Surat	mahesh
8	Deluxe	Surat	mahesh
9	Deluxe	Surat	mahesh
10	Deluxe	Surat	mahesh
11	Special	Surat	Priya Patel
12	Special	Surat	Priya Patel
13	Deluxe	Surat	mahesh
14	Special	Surat	Priya Patel
15	Deluxe	Surat	mahesh

Object Explorer

Connect

localhost (SQL Server 15.0.2000.5 - LAPTOP-...)

Databases

System Databases

Database Snapshots

Hospital

Database Diagrams

Tables

System Tables

FileTables

External Tables

Graph Tables

dbo.T1\_Bill

Columns

p\_name (PK, char(50), not n

d\_name (char(50), null)

disease (char(30), null)

patient\_id (int, not null)

room\_id (FK, int, not null)

payment\_method (char(20))

Keys

Constraints

SQLQuery8.sql - lo...Q6C0712\Heni (60)

SQLQuery7.sql - lo...Q6C0712\Heni (61)

SQLQuery6.sql - lo...Q6C0712\Heni (56)

```
select * from T1_Room WHERE room_id = 1;
```

150 %

Results

Messages

	room_id	room_type	patient_name	city	patient_gender	patient_id	entrydata
1	1	Deluxe	maresh	Surat	Female	NULL	NULL

## 9. OUTPUT

Object Explorer

Connect

localhost (SQL Server 15.0.2000.5 - LAPTOP-...)

Databases

System Databases

Database Snapshots

Hospital

Database Diagrams

Tables

System Tables

FileTables

External Tables

Graph Tables

dbo.T1\_Bill

Columns

p\_name (PK, char(50), not n

d\_name (char(50), null)

disease (char(30), null)

patient\_id (int, not null)

room\_id (FK, int, not null)

payment\_method (char(20))

Keys

Constraints

Triggers

Indexes

Statistics

dbo.T1\_Patient

dbo.T1\_Room

SQLQuery8.sql - lo...Q6C0712\Heni (60)

SQLQuery7.sql - lo...Q6C0712\Heni (61)

SQLQuery6.sql - lo...Q6C0712\Heni (56)

```
UPDATE T1_Room  
SET patient_id = 100  
WHERE room_id = 1;
```

150 %

Messages

(0 rows affected)

Completion time: 2021-02-19T16:36:57.9120568+05:30