

DBMS Lab Assignment-3

K.Priyam

19BCS052

Q1) Add, Modify and Delete Column using Alter Command

```
ALTER TABLE T2_CUSTOMER_ADDRESS
```

```
ADD cust_name VARCHAR(50);
```

```
ALTER TABLE T2_CUSTOMER_ADDRESS ALTER
```

```
COLUMN cust_name VARCHAR(20);
```

```
ALTER TABLE T2_CUSTOMER_ADDRESS
```

```
DROP COLUMN cust_name;
```

```
SQLQuery2.sql - lo...M6G0V\Priyam (58))*  SQLQuery1.sql - lo...M6G0V\Priyam (52))*  
  
ALTER TABLE T2_CUSTOMER_ADDRESS  
ADD cust_name VARCHAR(50);  
  
ALTER TABLE T2_CUSTOMER_ADDRESS ALTER COLUMN cust_name VARCHAR(20);  
  
ALTER TABLE T2_CUSTOMER_ADDRESS  
DROP COLUMN cust_name;  
  
100 %  
Messages  
Commands completed successfully.  
Completion time: 2021-02-19T14:37:35.0166964+05:30
```

Q3) Show Violation of Primary Key, Unique Not Null and default keyconstraints through insertion.

USE HOTEL;

```
INSERT INTO T2_Customer  
VALUES ('1','sunder','8563942100','warangal','AP','500256','Sunder@gmail.com');
```

```
INSERT INTO T2_Customer  
VALUES ('2','Vaishnav','9676414220','Vizag','AP','522360','vaishnav12@gamil.com');
```

```
INSERT INTO T2_Customer(Customer_ID,Phone_number,City,State,Zipcode,Email_ID)VALUES  
( '2','9885249328','Agra','UP','586214','xyz@gmail.com');
```



The screenshot shows a SQL query window with three INSERT statements. The first two statements are executed successfully. The third statement, which attempts to insert a record with a duplicate Customer_ID (2) and a NULL Email_ID, is terminated with two error messages:

```
USE HOTEL;  
  
INSERT INTO T2_Customer  
VALUES ('1','sunder','8563942100','warangal','AP','500256','sunder@gmail.com');  
  
INSERT INTO T2_Customer  
VALUES ('2','Vaishnav','9676414220','Vizag','AP','522360','vaishnav12@gamil.com');  
  
INSERT INTO T2_Customer(Customer_ID,Phone_number,City,State,Zipcode,Email_ID) VALUES ('2','9885249328','Agra','UP','586214','xyz@gmail.com');
```

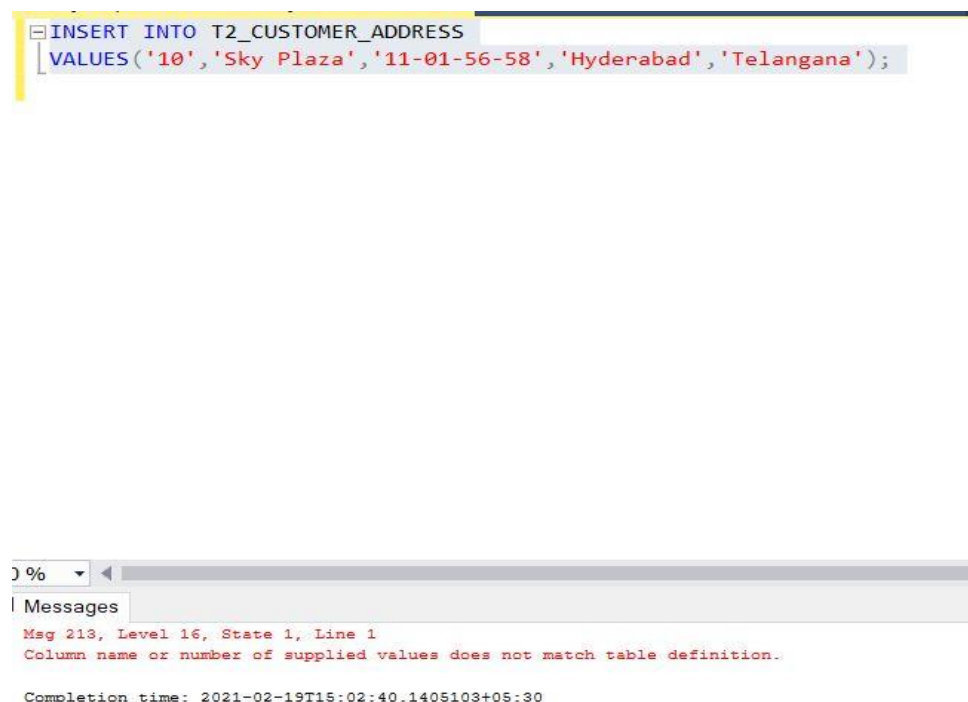
Messages

Msg 2627, Level 14, State 1, Line 3
Violation of PRIMARY KEY constraint 'PK__T2_Custo__8CB28689C2D5796D'. Cannot insert duplicate key in object 'dbo.T2_Customer'. The duplicate key value is (1).
The statement has been terminated.
Msg 2627, Level 14, State 1, Line 6
Violation of PRIMARY KEY constraint 'PK__T2_Custo__8CB28689C2D5796D'. Cannot insert duplicate key in object 'dbo.T2_Customer'. The duplicate key value is (2).
The statement has been terminated.
Msg 818, Level 16, State 2, Line 9
Cannot insert the value NULL into column 'Customer_Name', table 'HOTEL.dbo.T2_Customer'; column does not allow nulls. INSERT fails.
The statement has been terminated.

Completion time: 2021-02-19T14:56:34.8755501+05:30

Q4) Insert tuples into the table and see how foreign key constraint works if you try to insert into dependent table first.

```
INSERT INTO T2_CUSTOMER_ADDRESS  
VALUES('10','Sky Plaza','11-01-56-58','Hyderabad','Telangana');
```



The screenshot shows a SQL query window with an INSERT statement. The statement is terminated with an error message:

```
INSERT INTO T2_CUSTOMER_ADDRESS  
VALUES ('10','Sky Plaza','11-01-56-58','Hyderabad','Telangana');
```

Messages

Msg 213, Level 16, State 1, Line 1
Column name or number of supplied values does not match table definition.

Completion time: 2021-02-19T15:02:40.1405103+05:30

Q5) Show Violation of Foreign Key Constraint when you try to delete from a base table. If you get an error explain why deletion gives an error

DELETE FROM T2_Rooms WHERE Room_number='3';

```
DELETE FROM T2_Rooms WHERE Room_number='3';
```

0 %

Messages

(0 rows affected)

Completion time: 2021-02-19T15:04:18.8201227+05:30

Q6) Try to update a non-existing entity data and check for error.

UPDATE T2_Rooms SET number_of_beds=4 WHERE Room_number=6;

```
UPDATE T2_Rooms SET number_of_beds=4 WHERE Room_number=6;
```

100 %

Messages

(0 rows affected)

Completion time: 2021-02-19T15:06:22.0886896+05:30

Q9) Show how Foreign key constraint effects Updating a dependent table when value is not existing and in Base table where the value is referred and you want to update it

```
UPDATE T2_Rooms SET number_of_beds=2 WHERE Room_Type='Deluxe';
```

```
UPDATE T2_Rooms SET number_of_beds=2 WHERE Room_Type='Deluxe';
```

) % ▾ ◀

Messages

(0 rows affected)

Completion time: 2021-02-19T15:08:14.2753781+05:30

