## DBMS LAB ASSIGNMENT-3

CH.BhawanKumar 19BCS031

1) Add, Modify and Delete column using alter command:



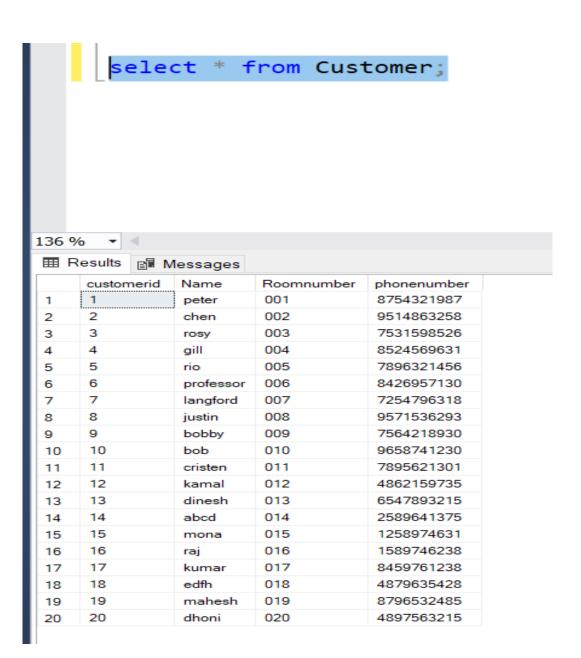
2) Insert 20 employees Data into all the tables:

```
□use Hotel;
insert into Customer(customerid, Name, Roomnumber, phonenumber)
   values (1, 'peter', '001', '8754321987');
insert into Customer(customerid, Name, Roomnumber, phonenumber)
  values (2, 'chen', '002', '9514863258');
insert into Customer(customerid, Name, Roomnumber, phonenumber)
  values (3, 'rosy', '003', '7531598526');
insert into Customer(customerid, Name, Roomnumber, phonenumber)
  values (4, 'gill', '004', '8524569631');
insert into Customer(customerid, Name, Roomnumber, phonenumber)
  values (5, 'rio', '005', '7896321456');
insert into Customer(customerid, Name, Roomnumber, phonenumber)
  values (6, 'professor', '006', '8426957130');
insert into Customer(customerid, Name, Roomnumber, phonenumber)
  values (7, 'langford', '007', '7254796318');
insert into Customer(customerid, Name, Roomnumber, phonenumber)
  values (8, 'justin', '008', '9571536293');

insert into Customer(customerid, Name, Roomnumber, phonenumber)

insert into Customerid, Name, Roomnumber, phonenumber)

insert into Customerid, Name, Roomnumber, phonenumber, phon
   values (9, 'bobby', '009', '7564218930');
□insert into Customer(customerid, Name, Roomnumber, phonenumber)
   values (10, 'bob', '010', '9658741230');
          insert into Customer
             values (11, 'cristen', '011', '7895621301');
           insert into Customer
             values (12, 'kamal', '012', '4862159735');
          insert into Customer
              values (13, 'dinesh', '013', '6547893215');
           insert into Customer
              values (14, 'abcd', '014', '2589641375');
           insert into Customer
             values (15, 'mona', '015', '1258974631');
          insert into Customer
              values (16, 'raj', '016', '1589746238');
           insert into Customer
              values (17, 'kumar', '017', '8459761238');
           insert into Customer
              values (18, 'edfh', '018', '4879635428');
          insert into Customer
              values (19, 'mahesh', '019', '8796532485');
           insert into Customer
            | values (20, 'dhoni', '020', '4897563215');
```



3) Show Violation of primary key, Unique not null and default key constraints through insertion:

## Primary key violation:

```
□ use Hotel;

□ insert into Customer(customerid, Name, Roomnumber, phonenumber)

[values (1, 'steve', '51', '9876543210');]
```

```
lessages

Mag 2627, Level 14, State 1, Line 3

Violation of PRIMARY KEY constraint 'PK_Customer_B61ED7F594288BA1'. Cannot insert duplicate key in object 'dbo.Customer'. The duplicate key value
The statement has been terminated.

Completion time: 2021-02-19T15:44:49.1809528+05:30
```

## Null key violation:

```
/* null key voilation */

insert into Customer(customerid, Name, Roomnumber, phonenumber)
values (22, null, '150', '8796541230');

select * from Customer;
```

```
Messages

Mag 515, Level 16, State 2, Line 7

Cannot insert the value NULL into column 'Name', table 'Hotel.dbo.Customer'; column does not allow nulls. INSERT fails.

The statement has been terminated.

Completion time: 2021-02-19T15:53:43.3520069+05:30
```

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

```
□use Hotel;

□insert into Receptionist

values (1, 'kidinesh', '9654178235', 1, null);

□ select * from Manager;
```

```
Messages

Mag 547, Level 16, State 0, Line 3
The INSERT statement conflicted with the FOREIGN KEY constraint "FK_Reception_roomi_403A8C7D". The conflict occurred in database "Hotel", table "The statement has been terminated.

Completion time: 2021-02-19T16:38:35.4984113+05:30
```

5) 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 Stock where stockid = 2;
select * from Stock;

150 % 

Results b Messages
Msg 547, Level 16, State 0, Line 3
The DELETE statement conflicted with the REFERENCE constraint "FK_Room_stockid_38996AB5". The conflict occurred in database "Hotel",
The statement has been terminated.
```

The error occurs because when we delete a record from the base table, we show make sure that all the related dependent tables records are deleted prior. Otherwise, there will be redundant data all over the database.

6) Try to update a non-existing entity data and check for error:

```
use Hotel;
update Customer
set Name = 'kidnesh'
where customerid = 30
```

```
Messages

(0 rows affected)

Completion time: 2021-02-19T17:00:27.7906657+05:30
```

7) Add a column which has default value:



8)5 Simple select queries to retrieve data from your database:

```
∃use Hotel;
     select * from Stock;
     select * from Room where stockid = 1;
     select roomid, customerid from Receptionist where Name = 'priya';
     select Name, customerid from Manager;
    select * from Customer
     where customerid in (select customerid from Manager where Name = 'daniel');
150 % • 4 ==
Results gli Messages
   stockid status status_string
             050
             051
             052
  daniel
        19
   daniel 9
   customerid Name Roomnumber
                       9514863258
```

9) Show how foreign key constraint effects updating a dependent table when value not existing and in base table where the value is referred and you want to update it:

```
update Room set stockid = 1 where roomid = 7;

150 %

Messages

(0 rows affected)

Completion time: 2021-02-20T13:40:02.3820183+05:30
```