DBMS LAB ASSIGNMENT - 3

Name: Anmol Kumar Reg no: 19BCS011

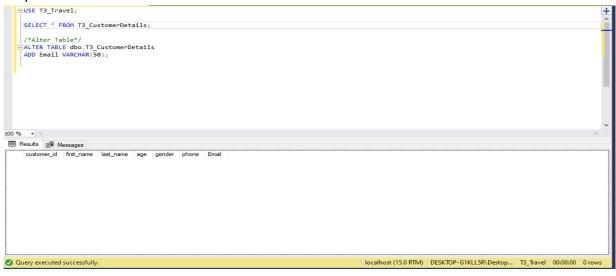
1. Add, Modify and Delete Column using Alter Command

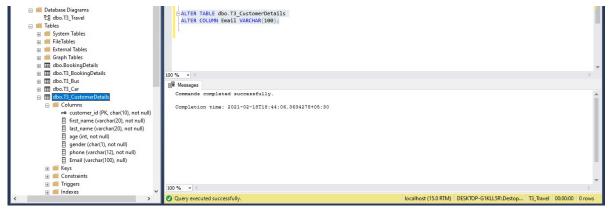
/*Alter Table*/
ALTER TABLE dbo.T3_CustomerDetails
ADD Email VARCHAR(50);

ALTER TABLE dbo.T3_CustomerDetails
ALTER COLUMN Email VARCHAR(100);

ALTER TABLE dbo.T3_CustomerDetails
DROP COLUMN Email;

Output:





```
ALTER TABLE dbo.T3_CustomerDetails
DROP COLUMN Email;
External Tables
Results Messages
dbo.T3_Custor
                                              customer id first name last name age gender phone
        = customer_id (PK, char(10), not null)
       First name (varchar(20), not null)
        last_name (varchar(20), not null)
       age (int, not null)
       gender (char(1), not null)

phone (varchar(12), not null)

    ■ Statistics

                                         Ouerv executed successfully
                                                                                                                       localhost (15.0 RTM) | DESKTOP-G1KLL5R\Destop... | T3_Travel | 00:00:00 | 0 row
```

2. Insert 20 Employees Data into all the tables. Use all the 3 methods that I have showcased.

```
/*INSERTING 1.insert into parameters and values 2.insert into all the values directly 3.insert into using select*/
☐ INSERT INTO dbo.T3 CustomerDetails(customer id, first name, last name, age, gender, phone)
 VALUES(1001, 'Mark', 'Stone', 23, 'M', '7666051848');
□ INSERT INTO dbo.T3_CustomerDetails
 VALUES(1101, 'Janhvi', 'Rathod', 31, 'F', '9822459012');
☐INSERT INTO dbo.T3_CustomerDetails(customer_id, first_name, last_name, age, gender, phone)
 (SELECT customer_id, first_name, last_name, age, gender, phone FROM TRAVEL.dbo.CustomerDetails where customer_id = 1000);
☐INSERT INTO dbo.T3_CustomerDetails(customer_id, first_name, last_name, age, gender, phone)
 VALUES(1004, 'Rosy', 'Paul', 40, 'F', '9876543210');
☐ INSERT INTO dbo.T3_CustomerDetails
 VALUES(1105, 'George', 'Barnes', 24, 'M', '5628745676');
☐ INSERT INTO dbo.T3 CustomerDetails(customer_id, first_name, last_name, age, gender, phone)
 VALUES(1006, 'Susan', 'Noble', 21, 'F', '8887051648');
☐ INSERT INTO dbo.T3_CustomerDetails
 VALUES(1007, 'Erwin', 'Star', 30, 'M', '5629753388');
□ INSERT INTO dbo.T3_CustomerDetails(customer_id, first_name, last_name, age, gender, phone)
 VALUES(1008, 'Alice', 'Buck', 41, 'F', '9922334466');
☐ INSERT INTO dbo.T3 CustomerDetails
 VALUES(1109, 'Frank', 'Borders', 22, 'M', '7149688201');
□ INSERT INTO dbo.T3_CustomerDetails(customer_id, first_name, last_name, age, gender, phone)
 VALUES(1010, 'Gill', 'Sen', 33, 'F', '7477448981');
```

```
□ INSERT INTO dbo.T3_CustomerDetails

VALUES(1012, 'Hanna', 'Khan', 24, 'F', '6666115848');

□ INSERT INTO dbo.T3_CustomerDetails(customer_id, first_name, last_name, age, gender, phone)

VALUES(1011, 'Mona', 'Azuma', 21, 'F', '8899881234');

□ INSERT INTO dbo.T3_CustomerDetails

VALUES(1013, 'Tia', 'Kapoor', 28, 'F', '5544051867');

□ INSERT INTO dbo.T3_CustomerDetails

VALUES(1014, 'Svetlana', 'Rai', 29, 'F', '9999888867');

□ INSERT INTO dbo.T3_CustomerDetails

VALUES(1015, 'Romi', 'Kapoor', 26, 'F', '5544251867');

□ INSERT INTO dbo.T3_CustomerDetails

VALUES(1016, 'Pinky', 'Patel', 54, 'F', '5544051888');

□ INSERT INTO dbo.T3_CustomerDetails

VALUES(1017, 'Vijay', 'Raut', 36, 'M', '8866443311');

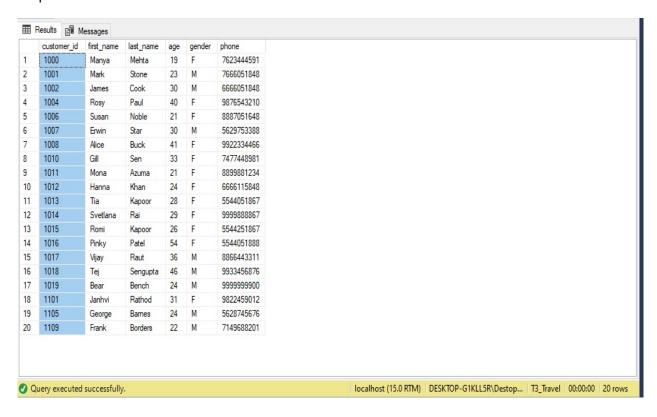
□ INSERT INTO dbo.T3_CustomerDetails

VALUES(1018, 'Tej', 'Sengupta', 46, 'M', '9933456876');

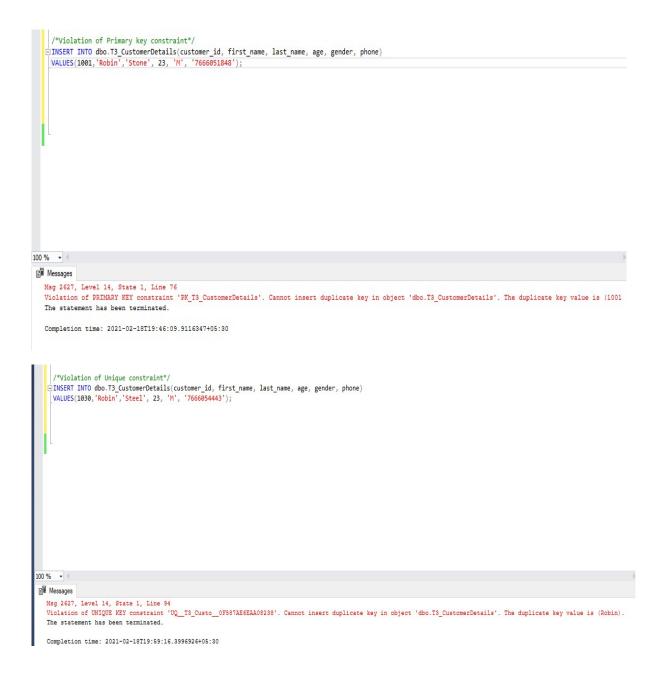
□ INSERT INTO dbo.T3_CustomerDetails

VALUES(1019, 'Bear', 'Bench', 24, 'M', '9999999900');
```

Output:



3. Show Violation of Primary Key, Unique, Not Null and default key constraints through insertion.



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



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

The deletion is giving an error as it violates referential integrity constraint. First, we need to delete the corresponding tuple from the dependent table and then the base table.

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

```
DUPDATE dbo.T3_CustomerDetails

SET last_name = 'Mickey'
WHERE customer_id = 1060

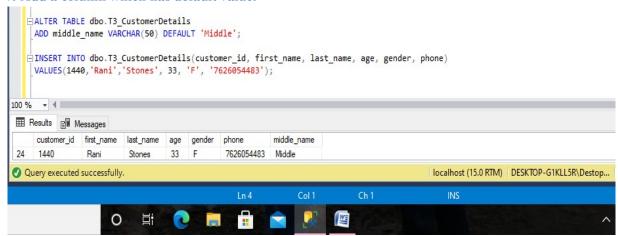
100 % - 

B Messages

(0 rows affected)

Completion time: 2021-02-18T20:27:21.7988264+05:30
```

7. Add a column which has default value.



8. 5 Simple Select queries to retrieve data from your database.

```
/*Simple Select Query*/
Select first_name from T3_CustomerDetails
where gender = 'M';

Select top 10 * from T3_CustomerDetails;

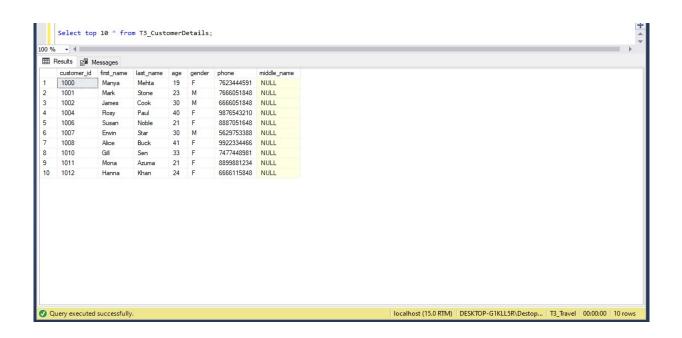
Select last_name from T3_CustomerDetails
where age = 23;

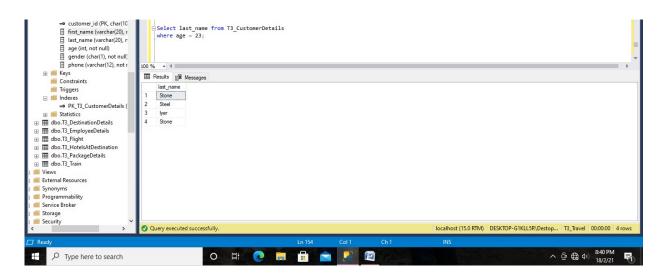
Select * from T3_BookingDetails;

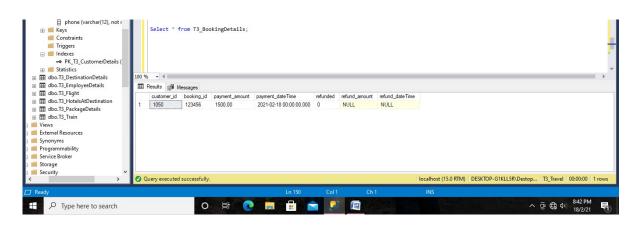
Select * from T3_CustomerDetails
where customer_id in (Select customer_id from T3_BookingDetails
where customer_id = 1050);
```

Output:











9. 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.

