DBMS LAB ASSIGNMENT-3

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1. Add, Modify and Delete Column using Alter Command

ADD:

```
File Edit View Project Tools Window Help
ତ - ୦ | ଖି - ଓ - ର 🖺 🗳 🚇 New Query 🕮 ଲ ଲ ଲ ଲ 🔉 ୫ ଫି ଶ । ୭ - ୯ - 🔞 🔻 🍠
                                                                                 - G & = D -
 ♥♥ Movie_Details • ▶ Execute ■ ✔ 용 를 등 용 때 최표의 목적 문화 행
Object Explorer
Connect- ♥ *♥ = ▼ ♂ *
                                            ∃use Movie Details;
                                            Alter table Film
  ■ ■ Database Snapshots
                                             Add FilmName varchar(20);
  ■ Movie Details
                                             Alter table Film

    ■ ■ Database Diagrams

                                             Alter column FilmName varchar(20);
   ■ Tables
                                            _Alter table Film

    ■ System Tables

                                             Drop column FilmName:

    ■ FileTables

    ■ External Tables

■ ■ Graph Tables
     □ Ⅲ dbo.Film

■ Columns
          → Film_id (PK, int, not null)
          ☐ Title (varchar(45), not null)
          ■ Ratings (int, null)
          FilmName (varchar(20), null
                                           Completion time: 2021-02-19T15:22:24.5559910+05:30

■ ■ Constraints

■ ■ Triggers
        🛚 🖷 Statistics
      ■ ■ dbo.Film_actor
```

MODIFY:

```
♥ ♥ Movie_Details · ▷ Execute ■ ✔ 없 를 및 합 없 를 및 표표의 및 열 표표 등
Object Explorer
                                           <u> □use Movie_Details;</u>
Connect + + + = + c +
                                           ⊟Alter table Film
 ■ ■ Database Snapshots
                                             Add FilmName varchar(20);
 ■ Movie_Details
                                            Alter table Film

■ ■ Database Diagrams

                                             Alter column FilmName varchar(10);
   ■ ■ Tables
                                           ⊢Alter table Film
     ■ ■ System Tables
                                             Drop column FilmName;

■ FileTables

■ ■ External Tables

    ■ Graph Tables

     ■ ■ dbo.Film

■ Columns

          → Film_id (PK, int, not null)
          ☐ Title (varchar(45), not null)
                                          Commands completed successfully.
          ■ Ratings (int, null)
          FilmName (varchar(10), null
                                          Completion time: 2021-02-19T15:24:34.2854050+05:30
       🛚 🖷 Keys

■ ■ Constraints

       ■ ■ Triggers
       ■ Indexes
```

DELETE:

```
SQLQuery2....SRI (52))* * ×
Object Explorer
                                         ⊡use Movie_Details;
⊨Alter table Film

■ ■ Database Snapshots

                                           Add FilmName varchar(20);
 ■ Movie_Details
                                         ⊟Alter table Film

■ ■ Database Diagrams
                                           Alter column FilmName varchar(10);
   ■ ■ Tables
                                         Alter table Film

■ ■ System Tables

                                           Drop column FilmName;

■ FileTables

■ ■ External Tables

■ ■ Graph Tables

     ■ ■ dbo.Film

□ ■ Columns

         → Film_id (PK, int, not null)
                                      194 % 🔻 🖣
          ☐ Title (varchar(45), not null)
                                         Commands completed successfully.
          ■ Ratings (int, null)
          FilmName (varchar(10), null
                                         Completion time: 2021-02-19T15:25:41.3655538+05:30
      🛚 🖷 Keys

■ ■ Constraints

      🛚 🖷 Triggers
      ■ Indexes

■ ■ Statistics
```

2.) Insert 20 employees Data into all the tables

SQLQuery2....SRI (52))* * ×

```
dinsert into Inventory(Inventory_id,Inventory_name)
   values(2, 'Rocky');
insert into Inventory(Inventory_id,Inventory_name)
   values(3,'Rosie');
_insert into Inventory(Inventory_id,Inventory_name)
   values(4, 'Riyan');
insert into Inventory(Inventory_id,Inventory_name)
   values(5, 'Aryan');
insert into Inventory(Inventory_id,Inventory_name)
   values(6, 'Manvi');
dinsert into Inventory(Inventory_id,Inventory_name)
   values(7, 'Steve');
insert into Inventory(Inventory_id,Inventory_name)
   values(8, 'Elena');
insert into Inventory(Inventory_id,Inventory_name)
   values(9,'Demon');

insert into Inventory(Inventory_id,Inventory_name)

inventory inventory
   values(10,'Vidhi');
insert into Inventory(Inventory_id,Inventory_name)
   values(11, 'Vansh');
dinsert into Inventory(Inventory_id,Inventory_name)
   values(12, 'Bhavya');
_insert into Inventory(Inventory_id,Inventory_name)
   values(13, 'Ridhima');
_insert into Inventory(Inventory_id,Inventory_name)
   values(14, 'Ponky');
insert into Inventory(Inventory_id,Inventory_name)
   values(15, 'Munny');
insert into Inventory(Inventory_id,Inventory_name)
   values(16, 'Koneru');
dinsert into Inventory(Inventory_id,Inventory_name)
   values(17, 'Apoorva');
finsert into Inventory(Inventory_id,Inventory_name)
   values(18, 'Lipsika');
finsert into Inventory(Inventory_id,Inventory_name)
   values(19, 'Vanshika');
insert into Inventory(Inventory id, Inventory name)
   values(20, 'Kidnesh');
   select * from Inventory;
```

85 % • • • Messages

	Inventory_id	Inventory_name
1	1	Reha
2	2	Rocky
3	3	Rosie
4	4	Riyan
5	5	Aryan
6	6	Manvi
7	7	Steve
8	8	Elena
9	9	Demon
10	10	Vidhi
11	11	Vansh
12	12	Bhavya
13	13	Ridhima
14	14	Ponky
15	15	Munny
16	16	Koneru
17	17	Apoorva
18	18	Lipsika
19	19	Vanshika
20	20	Kidnesh

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

PRIMARY KEY

```
insert into Inventory(Inventory_id,Inventory_name)

values(1, 'Reha');

sw_____

leads go leads to see the second second
```

NOT NULL:

DEFAULT ERROR

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

```
SQLQuery2...SRI (52))* * ×

Suse Movie_Details;
Sinsert into Film_actor

values(1,null,12);

Messages

Mag 547, Level 16, State 0, Line 2
The INSERT statement conflicted with the FOREIGN KEY constraint "FK_Film_acto_Film_267ABA7A". The conflict occurred in The statement has been terminated.

Completion time: 2021-02-19T16:27:13.7226343+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

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

7. Add a column which has default value.

```
SQLQuery2....SRI (52))* * ×

Suse Movie_Details;

ALTER TABLE Film

ADD Title {varchar(45)}

CONSTRAINT {actor} DEFAULT "reha"

WITH VALUES
```

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