DBMS LAB ASSIGNMENT-3

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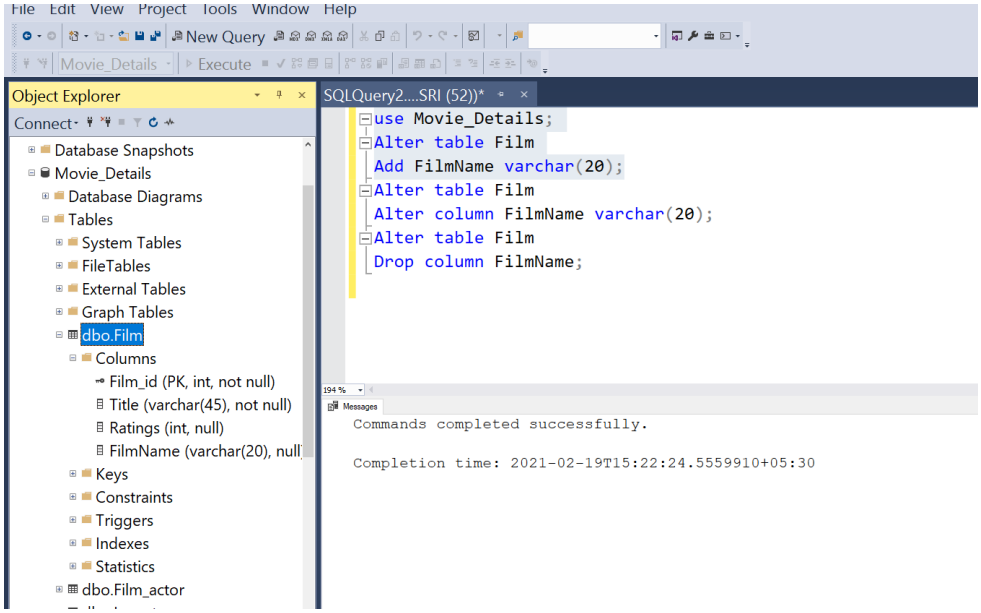
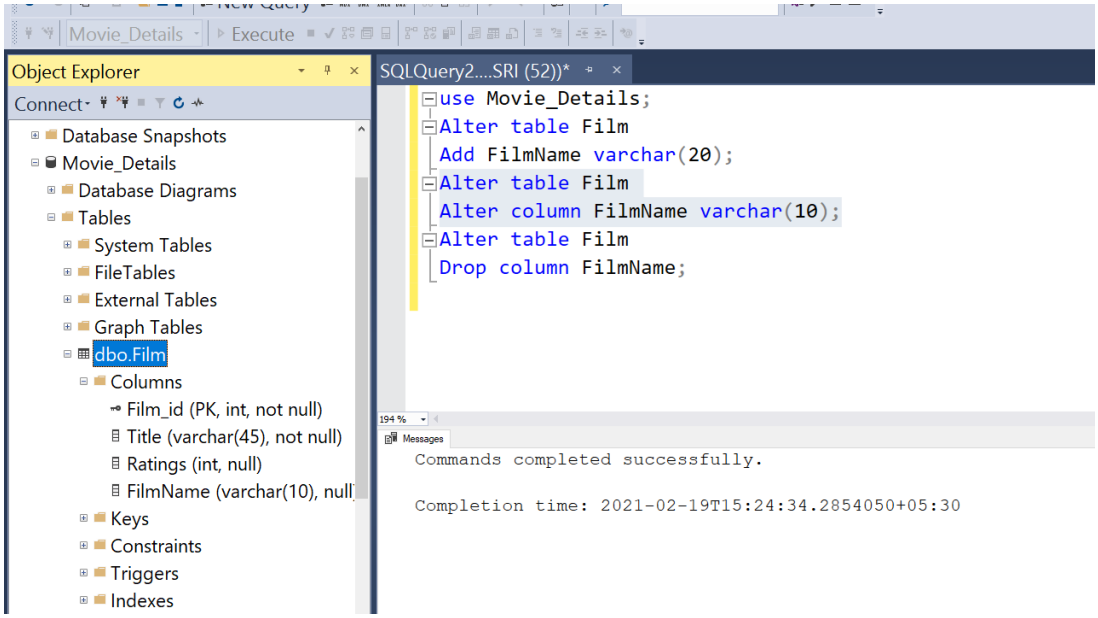
1. Add, Modify and Delete Column using Alter Command

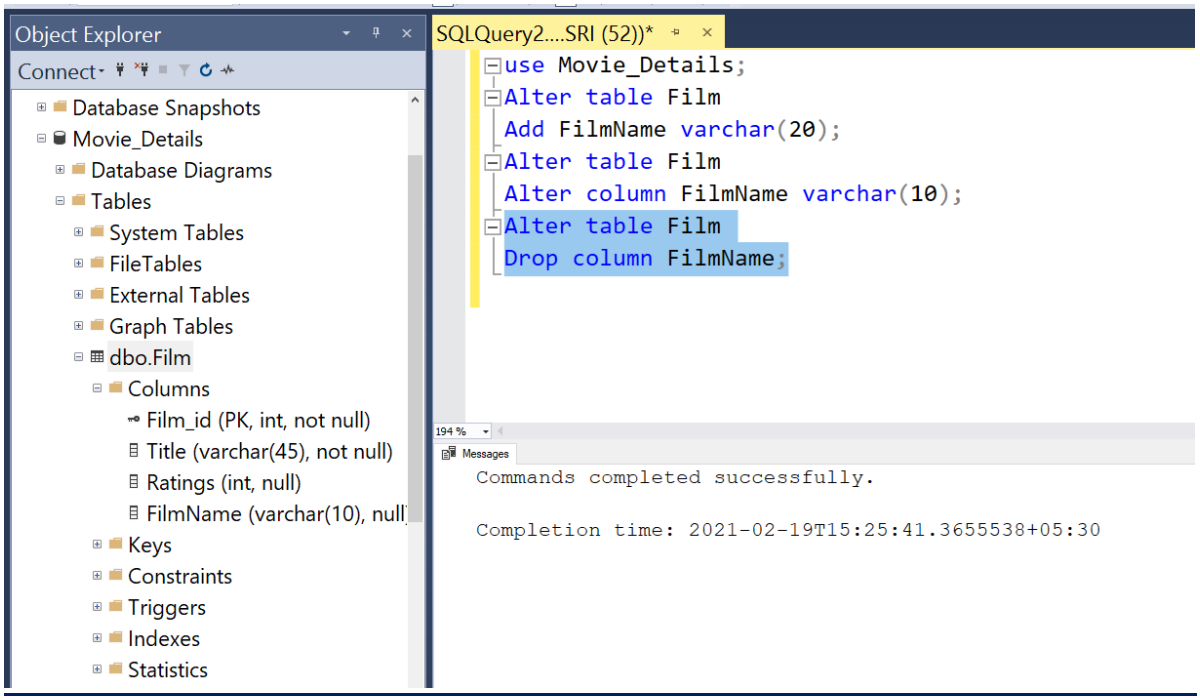
ADD:



MODIFY:



DELETE:


Object Explorer
Connect
Database Snapshots
Movie_Details
Database Diagrams
Tables
System Tables
FileTables
External Tables
Graph Tables
dbo.Film
Columns
Film_id (PK, int, not null)
Title (varchar(45), not null)
Ratings (int, null)
FilmName (varchar(10), null
Keys
Constraints
Triggers
Indexes
Statistics
SQLQuery2....SRI (52))*
use Movie_Details;
Alter table Film
Add FilmName varchar(20);
Alter table Film
Alter column FilmName varchar(10);
Alter table Film
Drop column FilmName;
194 %
Messages
Commands completed successfully.
Completion time: 2021-02-19T15:25:41.3655538+05:30

2.) Insert 20 employees Data into all the tables.

SQLQuery2....SRI (52))*

```
insert 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');
insert 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)
values(10,'Vidhi');
insert into Inventory(Inventory_id,Inventory_name)
values(11,'Vansh');
insert 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');
insert into Inventory(Inventory_id,Inventory_name)
values(17,'Apoorva');
insert into Inventory(Inventory_id,Inventory_name)
values(18,'Lipsika');
insert into Inventory(Inventory_id,Inventory_name)
values(19,'Vanshika');
insert into Inventory(Inventory_id,Inventory_name)
values(20,'Kidnesh');

select * from Inventory;
```

85 %

Results | 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');
```

```
Results  Messages
Msg 2627, Level 14, State 1, Line 8
Violation of PRIMARY KEY constraint 'PK__Inventor__2B66F8034692F585'. Cannot insert duplicate key in object 'dbo.Inventory'. The duplicate key value is (4
The statement has been terminated.
Msg 2627, Level 14, State 1, Line 10
```

NOT NULL:

SQLQuery2....SRI (52))*

```
insert into Inventory(Inventory_id,Inventory_name)
values(20,'Kidnesh');

select * from Inventory;

insert into Inventory(Inventory_id,Inventory_name)
values( NULL,'Reha');
```

165 %

Results Messages

```
(20 rows affected)
Msg 515, Level 16, State 2, Line 45
Cannot insert the value NULL into column 'Inventory_id', table 'Movie_Details.dbo.In
The statement has been terminated.

Completion time: 2021-02-19T15:56:54.9964357+05:30
```

DEFAULT ERROR

SQLQuery2....SRI (52))*

```
use Movie_Details;
alter table Inventory
add constraint df_Inventory_id
default '10' for Inventory_id
insert into Inventory(Inventory_id,Inventory_name)
values(21,'reha');
```

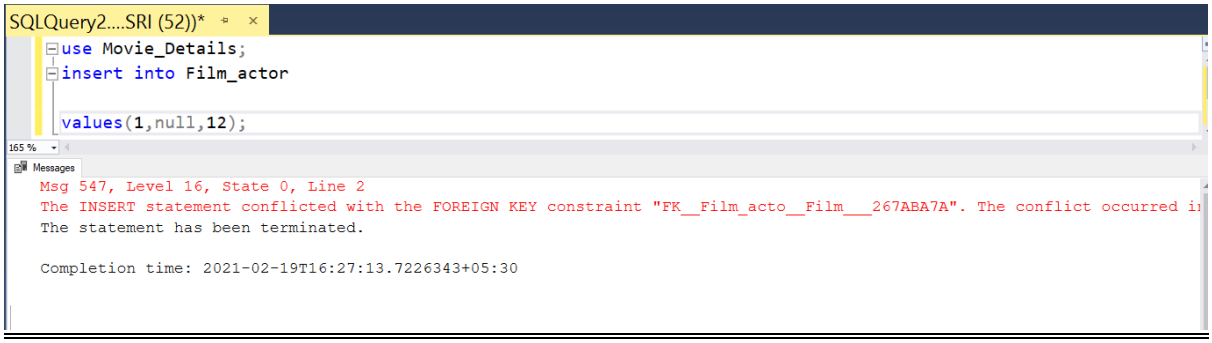
165 %

Messages

```
Msg 1781, Level 16, State 1, Line 2
Column already has a DEFAULT bound to it.
Msg 1750, Level 16, State 0, Line 2
Could not create constraint or index. See previous errors.

Completion time: 2021-02-19T16:12:03.6992878+05:30
```

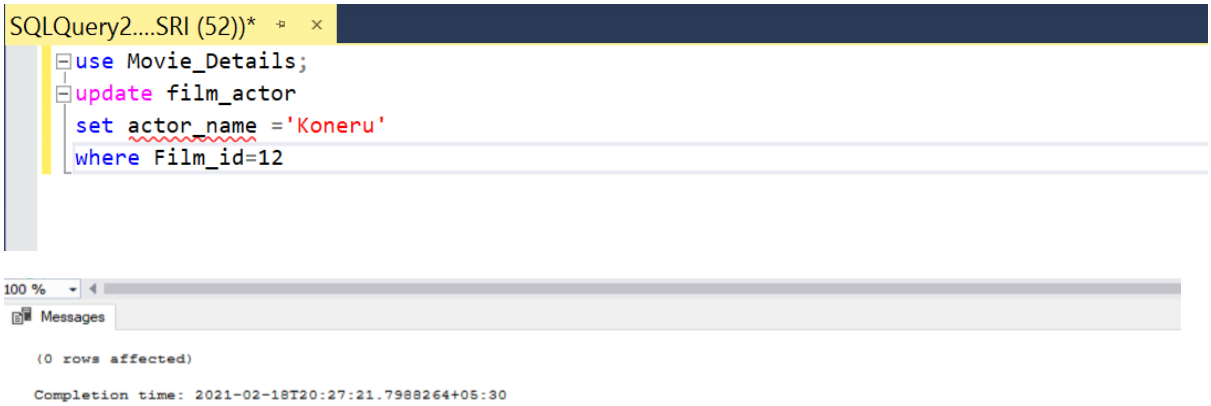
4. Insert tuples into the table and see how foreign key constraint works if you try to insert into dependent table first.



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



7. Add a column which has default value.

SQLQuery2....SRI (52))*

```
use Movie_Details;
ALTER TABLE Film
ADD Title {varchar(45)}
CONSTRAINT {actor} DEFAULT "reha"
WITH VALUES
```