

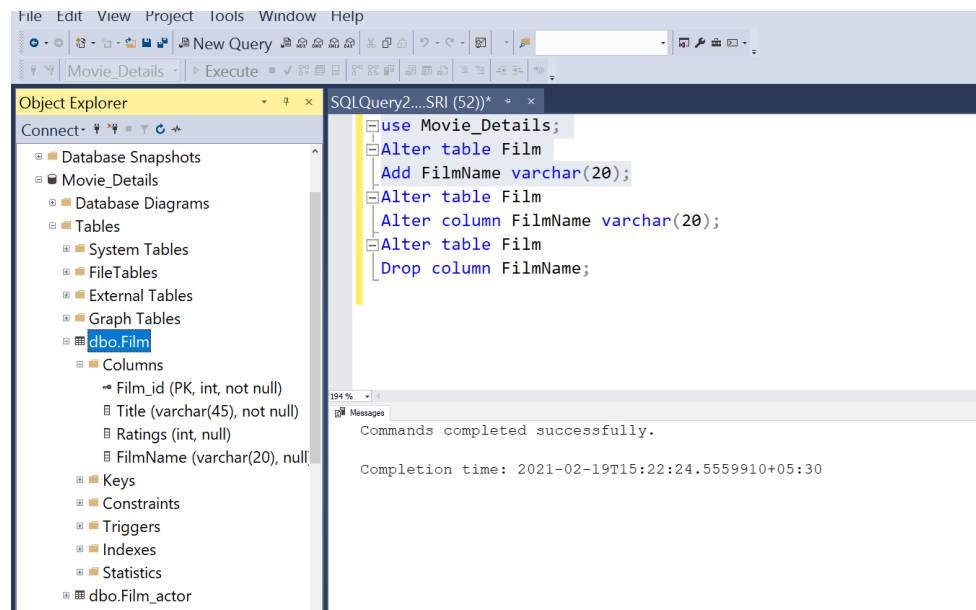
DBMS LAB ASSIGNMENT-3

Name:P.Satwik

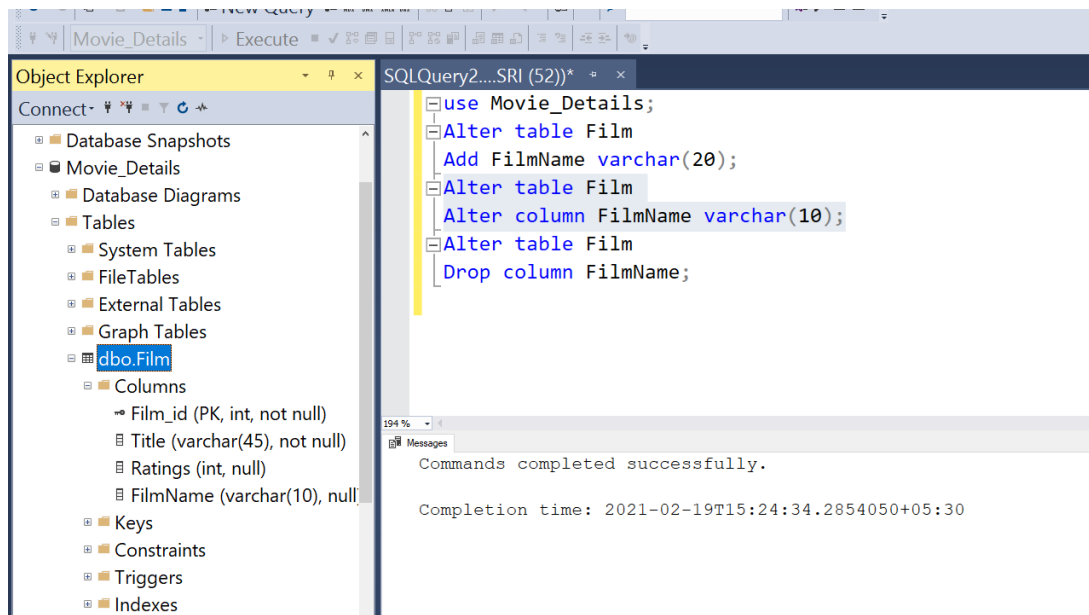
Rollno:19BCS083

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');
```

5 %

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

select * from Inventory;

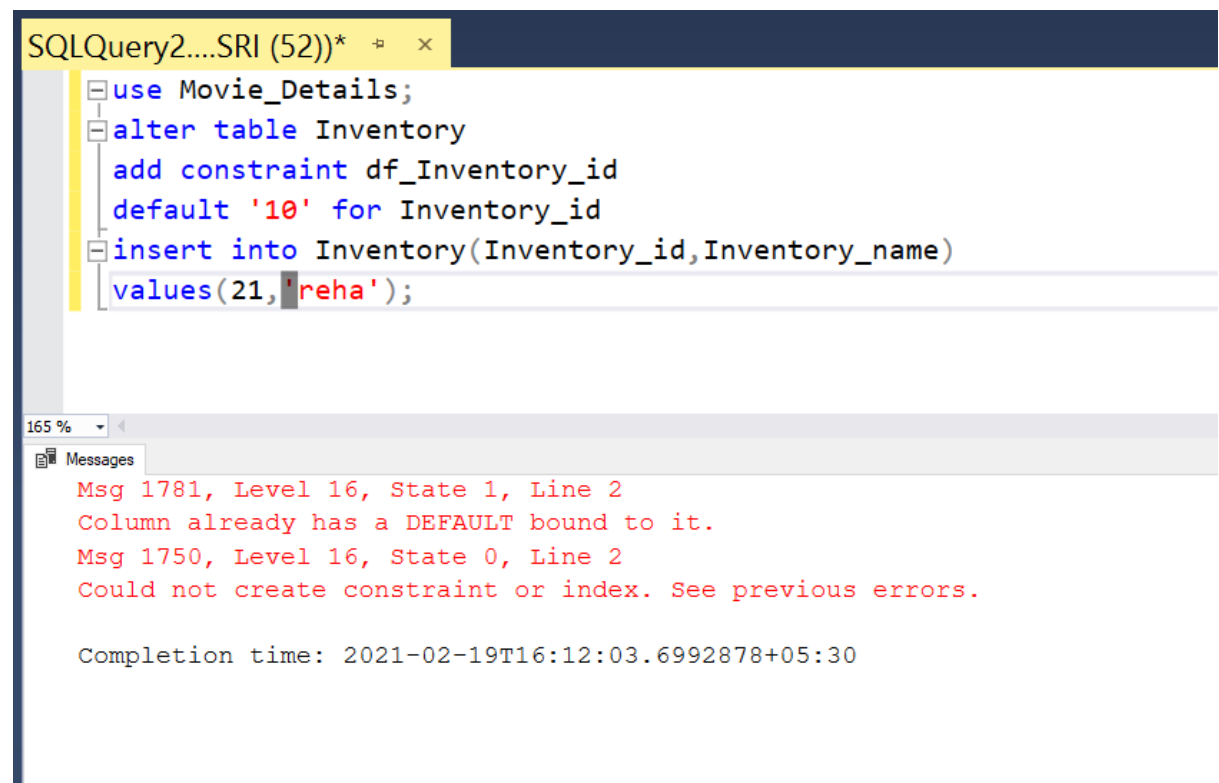
insert into Inventory(Inventory_id,Inventory_name)
values( NULL,'Reha');
```

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



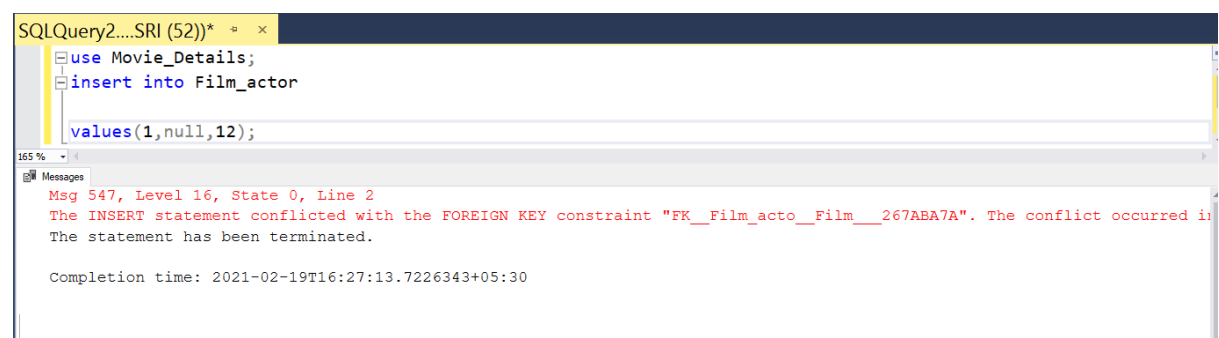
The screenshot shows a SQL query window titled "SQLQuery2....SRI (52))" with the following code:

```
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');
```

Below the query window, the Messages pane shows the following error 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.



The screenshot shows a SQL query window titled "SQLQuery2....SRI (52))" with the following code:

```
use Movie_Details;  
insert into Film_actor  
values(1,null,12);
```

Below the query window, the Messages pane shows the following error message:

```
Msg 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

```
SQLQuery2....SRI (52))* ×
use Movie_Details;
delete from Film_actor WHERE
Film_id=12
```

100 %

Messages

Msg 547, Level 16, State 0, Line 117
The DELETE statement conflicted with the REFERENCE constraint "FK_TS_BookingDetails_TS_CustomerDetails". The conflict occurred in database "TS_Travel", table "dbo.TS_BookingDetails".
The statement has been terminated.

Completion time: 2021-02-18T20:23:12.8435276+05:30

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

```
SQLQuery2....SRI (52))* ×
use Movie_Details;
update film_actor
set actor_name = 'Koneru'
where Film_id=12
```

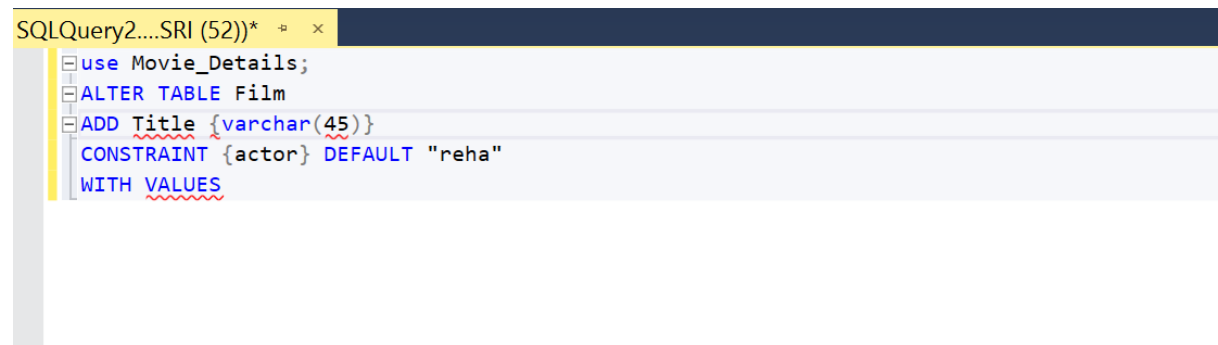
100 %

Messages

(0 rows affected)

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

7. Add a column which has default value.

A screenshot of a SQL query editor window. The title bar reads "SQLQuery2....SRI (52))*". The editor contains the following SQL script:

```
use 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.