

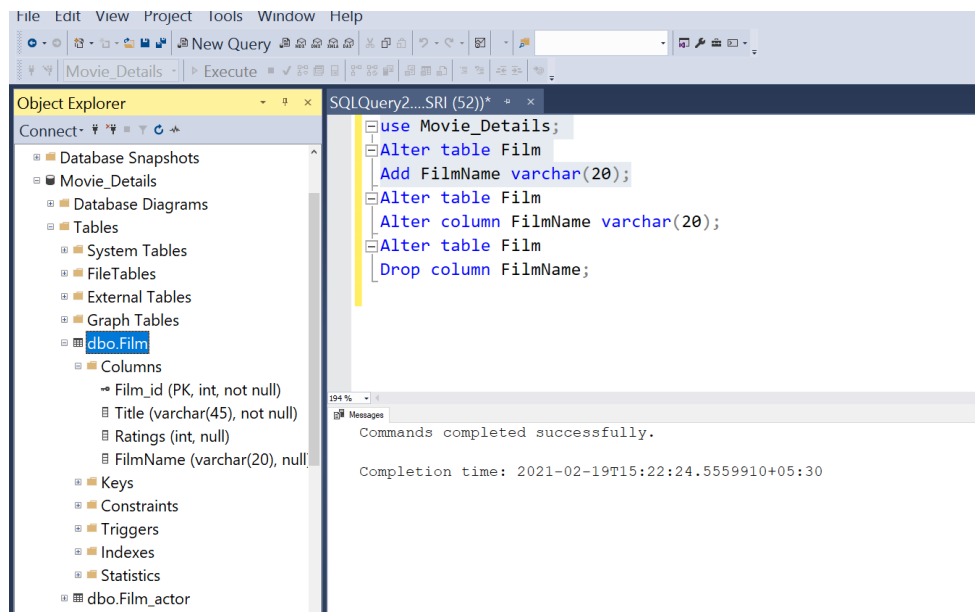
DBMS LAB ASSIGNMENT-3

Name: B. Sairaj

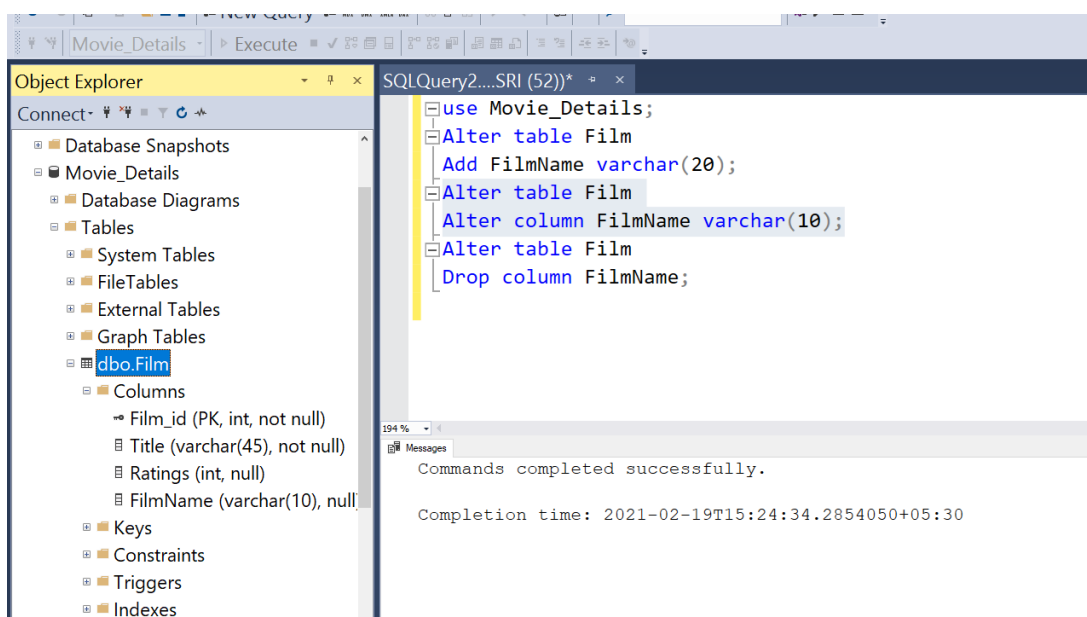
Rollno: 19BCS016

1. Add, Modify and Delete Column using Alter Command

ADD:



MODIFY:



DELETE:

The screenshot displays the SQL Server Enterprise Manager interface. On the left, the Object Explorer shows the database structure for 'Movie_Details', including tables, columns, keys, constraints, triggers, indexes, and statistics. The 'dbo.Film' table is selected, showing columns: Film_id (PK, int, not null), Title (varchar(45), not null), Ratings (int, null), and FilmName (varchar(10), null). The main window shows a query titled 'SQLQuery2....SRI (52)' with the following SQL commands:

```
use Movie_Details;  
Alter table Film  
Add FilmName varchar(20);  
Alter table Film  
Alter column FilmName varchar(10);  
Alter table Film  
Drop column FilmName;
```

Below the query window, the Messages pane shows the following output:

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

select * from Inventory;

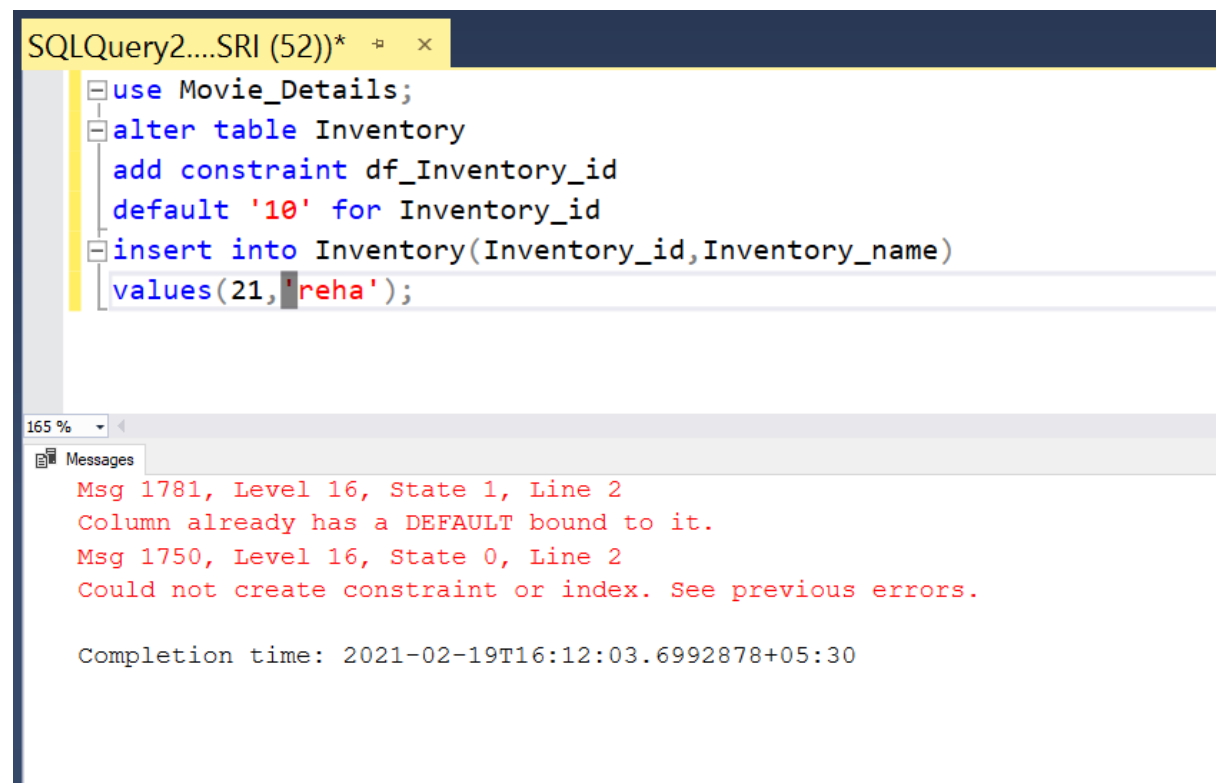
insert into Inventory(Inventory_id,Inventory_name)
values( NULL,'Reha');
```

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:

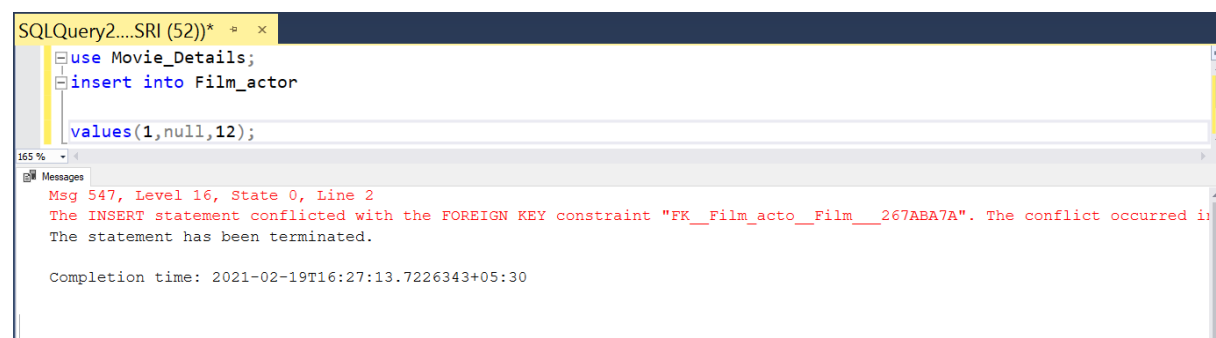
```
use Movie_Details;
alter table Inventory
add constraint df_Inventory_id
default '10' for Inventory_id
insert into Inventory(Inventory_id,Inventory_name)
values(21,'reha');
```

Below the query window, the "Messages" pane displays 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 displays 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



The screenshot shows a SQL query window with the following text:


```
use Movie_Details;  
delete from Film_actor WHERE  
Film_id=12
```

Below the query window, the Messages pane displays an error message:

```
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: 2021-02-18T20:23:12.8405276+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



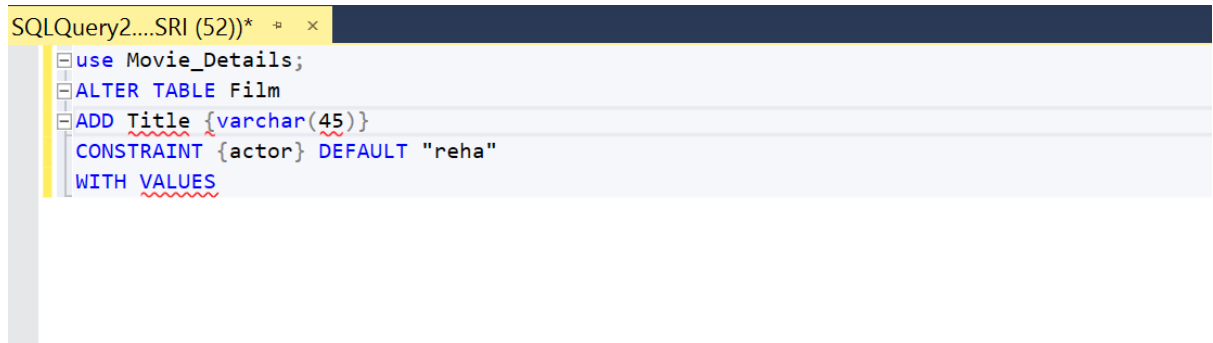
The screenshot shows a SQL query window with the following text:

```
use Movie_Details;  
update film_actor  
set actor_name = 'Koneru'  
where Film_id=12
```

Below the query window, the Messages pane displays a message:

```
(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 Server Enterprise Manager interface. At the top, a tab is labeled 'SQLQuery2....SRI (52))' with standard window controls. Below the tab, a query window contains the following SQL code:

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

The code is color-coded: 'use' is blue, 'Movie_Details;' is black, 'ALTER TABLE' is blue, 'Film' is black, 'ADD' is blue, 'Title' is black, '{varchar(45)}' is black, 'CONSTRAINT' is blue, '{actor}' is black, 'DEFAULT' is blue, '"reha"' is black, and 'WITH VALUES' is blue. The window has a light gray background and a vertical scrollbar on the right.

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.