

DIVYASHREE K

1BM19CS054

CSE-4A

Question:-

Program 9:

MOVIE DATABASE

Consider the schema for Movie Database:

ACTOR(Act\_id, Act\_Name, Act\_Gender)

DIRECTOR(Dir\_id, Dir\_Name, Dir\_Phone)

MOVIES(Mov\_id, Mov\_Title, Mov\_Year,  
Mov\_Lang, Dir\_id)

MOVIE\_CAST(Act\_id, Mov\_id, Role)

RATING(Mov\_id, Rev\_Stars)

Write SQL queries to

i. List the titles of all movies directed by  
'Hitchcock'.

- ii. Find the movie names where one or more actors acted in two or more movies.
- iii. List all actors who acted in a movie before 2000 and also in a movie after 2015 (use JOIN operation).
- iv. Find the title of movies and number of stars for each movie that has at least one rating and find the highest number of stars that movie received. Sort the result by movie title.
- v. Update rating of all movies directed by 'Steven Spielberg' to 5.

Program 9:

```
CREATE DATABASE MOVIE;
```

```
USE MOVIE;
```

```
CREATE TABLE ACTOR (
```

```
ACT_ID INT,
```

```
ACT_NAME VARCHAR (20),  
ACT_GENDER CHAR (1),  
PRIMARY KEY (ACT_ID));
```

```
CREATE TABLE DIRECTOR (  
DIR_ID INT,  
DIR_NAME VARCHAR (20),  
DIR_PHONE LONG,  
PRIMARY KEY (DIR_ID));
```

```
CREATE TABLE MOVIES (  
MOV_ID INT,  
MOV_TITLE VARCHAR (25),  
MOV_YEAR INT,
```

```
MOV_LANG VARCHAR (12),  
DIR_ID INT,  
PRIMARY KEY (MOV_ID),  
FOREIGN KEY (DIR_ID) REFERENCES  
DIRECTOR (DIR_ID));
```

```
CREATE TABLE MOVIE_CAST (  
ACT_ID INT,  
MOV_ID INT,  
AROLE VARCHAR(10),  
PRIMARY KEY (ACT_ID, MOV_ID),  
FOREIGN KEY(ACT_ID) REFERENCES  
ACTOR(ACT_ID) ON DELETE CASCADE,
```

```
FOREIGN KEY(MOV_ID) REFERENCES  
MOVIES(MOV_ID) ON DELETE  
CASCADE);
```

```
CREATE TABLE RATING (  
MOV_ID INT,  
REV_STARS VARCHAR (25),  
PRIMARY KEY (MOV_ID),  
FOREIGN KEY (MOV_ID) REFERENCES  
MOVIES (MOV_ID));
```

```
INSERT INTO ACTOR VALUES  
(301,'ANUSHKA','F');
```

```
INSERT INTO ACTOR VALUES  
(302,'PRABHAS','M');
```

```
INSERT INTO ACTOR VALUES  
(303,'PUNITH','M');
```

```
INSERT INTO ACTOR VALUES  
(304,'JERMY','M');
```

```
INSERT INTO DIRECTOR VALUES  
(60,'RAJAMOULI', 8751611001);
```

```
INSERT INTO DIRECTOR VALUES  
(61,'HITCHCOCK', 7766138911);
```

```
INSERT INTO DIRECTOR VALUES  
(62,'FARAN', 9986776531);
```

```
INSERT INTO DIRECTOR VALUES  
(63,'STEVEN SPIELBERG', 8989776530);
```

```
INSERT INTO MOVIES VALUES  
(1001,'BAHUBALI-2', 2017,'TELAGU',  
60);
```

```
INSERT INTO MOVIES VALUES  
(1002,'BAHUBALI-1', 2015, 'TELAGU',  
60);
```

```
INSERT INTO MOVIES VALUES  
(1003,'AKASH', 2008, 'KANNADA', 61);
```

```
INSERT INTO MOVIES VALUES  
(1004,'WAR HORSE', 2011, 'ENGLISH',  
63);
```

```
INSERT INTO MOVIE_CAST VALUES  
(301, 1002, 'HEROINE');
```

```
INSERT INTO MOVIE_CAST VALUES  
(301, 1001, 'HEROINE');
```

```
INSERT INTO MOVIE_CAST VALUES  
(303, 1003, 'HERO');
```

```
INSERT INTO MOVIE_CAST VALUES  
(303, 1002, 'GUEST');
```

```
INSERT INTO MOVIE_CAST VALUES  
(304, 1004, 'HERO');
```

```
INSERT INTO RATING VALUES (1001, 4);
```

```
INSERT INTO RATING VALUES (1002, 2);
```

```
INSERT INTO RATING VALUES (1003, 5);
```

```
INSERT INTO RATING VALUES (1004, 4);
```

```
select * from rating;
```

```
select * from actor;
```

```
select * from director;
```

```
select * from movies;
```

```
select * from movie_cast;
```



/\*1. List the titles of all movies directed by 'Hitchcock'. \*/

```
SELECT MOV_TITLE
FROM MOVIES
WHERE DIR_ID IN (SELECT DIR_ID
FROM DIRECTOR
WHERE DIR_NAME = 'HITCHCOCK');
```

/\*2. Find the movie names where one or more actors acted in two or more movies. \*/

```
SELECT MOV_TITLE
FROM MOVIES M, MOVIE_CAST MV
```

```
WHERE M.MOV_ID=MV.MOV_ID AND  
ACT_ID IN (SELECT ACT_ID  
FROM MOVIE_CAST GROUP BY ACT_ID  
HAVING COUNT(ACT_ID)>1)  
GROUP BY MOV_TITLE  
HAVING COUNT(*)>1;
```

/\*3. List all actors who acted in a movie  
before 2000 and also in a movie after  
2015 (use JOIN operation).\*/

```
SELECT ACT_NAME, MOV_TITLE,  
MOV_YEAR  
FROM ACTOR A  
JOIN MOVIE_CAST C
```

```
ON A.ACT_ID=C.ACT_ID
JOIN MOVIES M
ON C.MOV_ID=M.MOV_ID
WHERE M.MOV_YEAR NOT BETWEEN
2000 AND 2015;
```

/\*4. Find the title of movies and number of stars for each movie that has at least one rating and find the highest number of stars that movie received.

```
Sort the result by movie title. */
SELECT MOV_TITLE, MAX(REV_STARS)
FROM MOVIES
INNER JOIN RATING USING (MOV_ID)
GROUP BY MOV_TITLE
```

HAVING MAX(REV\_STARS)>0

ORDER BY MOV\_TITLE;

/\*5. Update rating of all movies  
directed by 'Steven Spielberg' to 5 KL  
\*/

UPDATE RATING

SET REV\_STARS=5

WHERE MOV\_ID IN(SELECT MOV\_ID  
FROM MOVIES

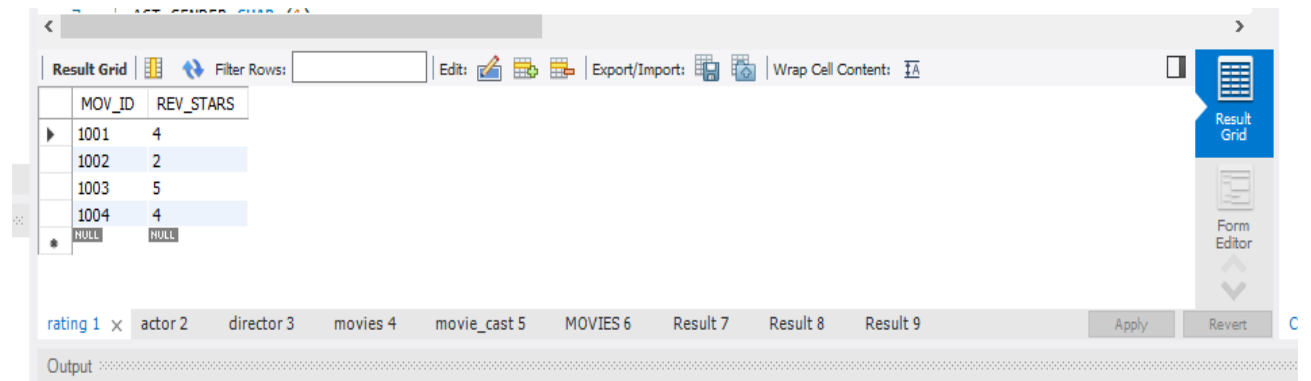
WHERE DIR\_ID IN(SELECT DIR\_ID

FROM DIRECTOR

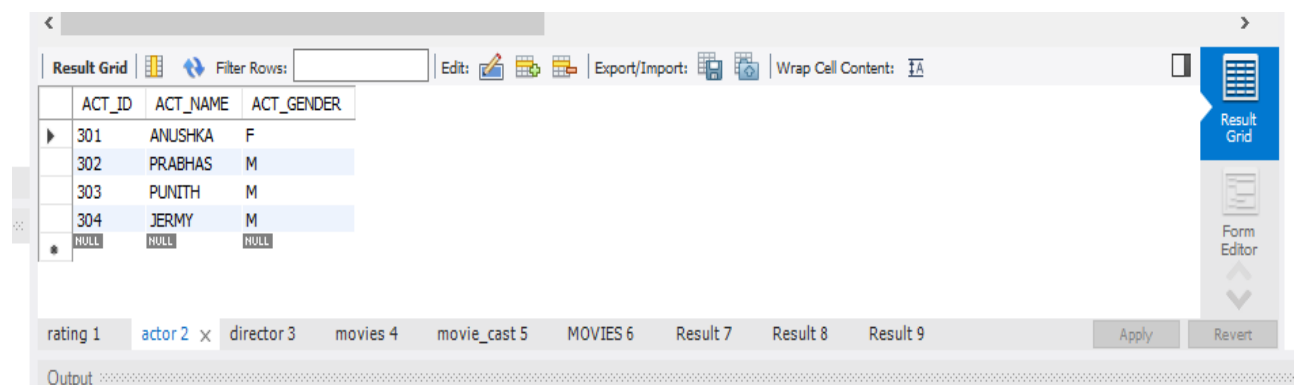
WHERE DIR\_NAME = 'STEVEN  
SPIELBERG'));

select \* from rating;

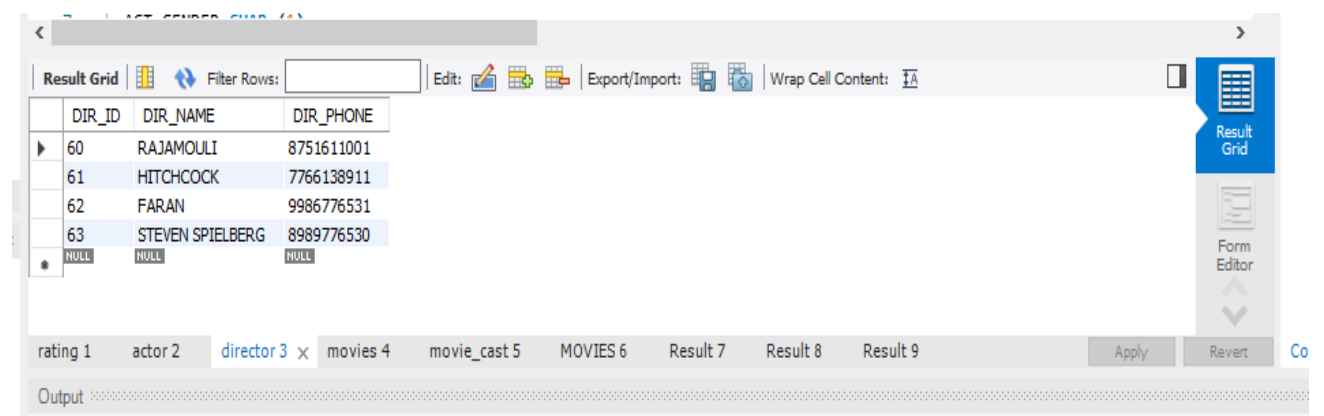
Output:



MOV_ID	REV_STARS
1001	4
1002	2
1003	5
1004	4
NULL	NULL



ACT_ID	ACT_NAME	ACT_GENDER
301	ANUSHKA	F
302	PRABHAS	M
303	PUNITH	M
304	JERMY	M
NULL	NULL	NULL



DIR_ID	DIR_NAME	DIR_PHONE
60	RAJAMOULI	8751611001
61	HITCHCOCK	7766138911
62	FARAN	9986776531
63	STEVEN SPIELBERG	8989776530
NULL	NULL	NULL

Result Grid					
Filter Rows:					
	MOV_ID	MOV_TITLE	MOV_YEAR	MOV_LANG	DIR_ID
▶	1001	BAHUBALI-2	2017	TELAGU	60
	1002	BAHUBALI-1	2015	TELAGU	60
	1003	AKASH	2008	KANNADA	61
	1004	WAR HORSE	2011	ENGLISH	63
*	NULL	NULL	NULL	NULL	NULL

rating 1 actor 2 director 3 movies 4 x movie\_cast 5 MOVIES 6 Result 7 Result 8 Result 9 Apply Revert

Output

Result Grid		
Filter Rows:		
	ACT_ID	MOV_ID
▶	301	1001
	301	1002
	303	1002
	303	1003
	304	1004
*	NULL	NULL

rating 1 actor 2 director 3 movies 4 movie\_cast 5 x MOVIES 6 Result 7 Result 8 Result 9 Apply Revert

Output

Result Grid	
Filter Rows:	
	MOV_TITLE
▶	AKASH

rating 1 actor 2 director 3 movies 4 movie\_cast 5 MOVIES 6 x Result 7 Result 8 Result 9 Read Only

Output

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

MOV_TITLE
BAHUBALI-1

rating 1actor 2director 3movies 4movie\_cast 5MOVIES 6Result 7 xResult 8Result 9Read Only

Output

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

ACT_NAME	MOV_TITLE	MOV_YEAR
ANUSHKA	BAHUBALI-2	2017

rating 1actor 2director 3movies 4movie\_cast 5MOVIES 6Result 7Result 8 xResult 9Read Only

Output

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

MOV_TITLE	MAX(REV_STARS)
AKASH	5
BAHUBALI-1	2
BAHUBALI-2	4
WAR HORSE	4

rating 1actor 2director 3movies 4movie\_cast 5MOVIES 6Result 7Result 8Result 9 xRead Only

Output