

ASSIGNMENT - 2

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

1. List the titles of all movies directed by 'Hitchcock'.
2. Find the movie names where one or more actors acted in two or more movies.
3. List all actors who acted in a movie before 2000 and in a movie after 2015 (use JOIN operation).
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.
5. Update rating of all movies directed by 'Steven Spielberg' to 5.

SCRIPTS

Database and Table Creation :

```
CREATE DATABASE movie;
```

```
USE movie;
```

```
CREATE TABLE actors (  
    act_id int,  
    act_name varchar(20) NOT NULL,  
    act_gender varchar(20) NOT NULL);
```

```
CREATE TABLE directors (  
    dir_id int,  
    dir_name varchar(20),  
    dir_Phone varchar(20));
```

```
CREATE TABLE movies (  
    mov_id int,  
    mov_title varchar(20),  
    mov_year varchar(20),
```

```
    mov_lang varchar(20),  
    dir_id int);
```

```
CREATE TABLE movie_cast (  
    mov_id int,  
    act_id int,  
    role varchar(20));
```

```
CREATE TABLE rating (  
    mov_id int,  
    rev_star int);
```

1. Query :

```
SELECT m.mov_title  
FROM movies m JOIN directors d  
    ON m.dir_id=d.dir_id  
WHERE d.dir_name="Hitchcock";
```

2. Query :

```
SELECT M.mov_title  
FROM movies M JOIN movie_cast MC  
    ON M.mov_id=MC.mov_id  
WHERE MC.mov_id in (  
    SELECT M.mov_id  
    FROM movies M JOIN movie_cast MC  
    ON M.mov_id=MC.mov_id  
    GROUP BY M.mov_id  
    HAVING COUNT(MC.act_id)>1)  
GROUP BY MC.act_id  
HAVING COUNT(MC.mov_id)>1;
```

3. Query :

```
SELECT DISTINCT a.act_name  
FROM actors a JOIN movie_cast mc  
    ON a.act_id=mc.act_id  
JOIN movies m  
    ON m.mov_id=mc.mov_id  
WHERE  
    CAST(m.mov_year AS Decimal) < 2000 or  
    CAST(m.mov_year AS Decimal) > 2015;
```

4. Query :

```
SELECT m.mov_title,max(r.rev_star) 'Top Stars'
FROM rating r JOIN movies m
      ON r.mov_id=m.mov_id
WHERE r.rev_star>0
      GROUP BY m.mov_title
      ORDER BY m.mov_title ;
```

5. Query :

```
UPDATE rating
      SET rev_star=5
WHERE mov_id IN (
      SELECT m.mov_id
      FROM movies m JOIN directors d
            ON m.dir_id=d.dir_id
      WHERE d.dir_name="steven spielberg");
```

OUTPUTS

1.

	mov_title
▶	Lifeboat
	rope

2.

	mov_title
▶	Jaws

3.

	act_name
▶	Robert
	Angelina
	tobie

4.

	mov_title	Top Stars
▶	Jaws	3
	Jurassic Park	5
	Lifeboat	5
	rope	3
	The Dark knight	4

5.

Output			
Action Output			
#	Time	Action	Message
✓ 1	20:16:13	SET SQL_SAFE_UPDATES=0	0 row(s) affected
✓ 2	20:16:13	update rating set rev_star=5 where mov_id in (select m.mov_id from movies m join directors d on m.dir...	3 row(s) affected Rows matched: 4 Changed: 3 Warnings: 0