**ASSIGNEMNT - 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";

1. **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;

1. **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;

1. **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 ;

1. **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. Graphical user interface, application

   Description automatically generated
2. Graphical user interface, application, Word

   Description automatically generated
3. Graphical user interface, application

   Description automatically generated
4. Graphical user interface

   Description automatically generated
5. Table

   Description automatically generated with medium confidence