ASSIGNMENT-2

JOIN

Consider the schema for MovieDatabase:

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 actor acted in two or more movies.

3. List all actors who acted in a movie before 2000 and also in a movies 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.

SCRIPT

CREATE DATABASE MOVIESS;

USE MOVIESS;

DROP DATABASE MOVIESS;

CREATE TABLE ACTOR(ACT_ID INT NOT NULL,

ACT_NAME VARCHAR(20) NOT NULL,

 ACT_GENDER VARCHAR(20) NOT NULL);

CREATE TABLE DIRECTOR(DIR_ID VARCHAR(20) NOT NULL

```sql
DIR_NAME VARCHAR(20) NOT NULL,

 DIR_PHONE INT NOT NULL);

CREATE TABLE MOVIES(MOV_ID INT NOT NULL,

MOV_TITLE VARCHAR(20) NOT NULL,

        MOV_YEAR INT NOT NULL,

        MOV_LANG VARCHAR(10) NOT NULL,

        DIR_ID INT NOT NULL);

CREATE TABLE MOVIE_CAST(ACT_ID INT NOT NULL,

    MOV_ID INT NOT NULL,

        ROLE VARCHAR(20) NOT NULL);

INSERT INTO ACTOR(ACT_ID,ACT_NAME,ACT_GENDER )VALUES("1","TOM","FEMALE");

INSERT INTO ACTOR(ACT_ID,ACT_NAME,ACT_GENDER )VALUES("2","JEFRI","MALE");

INSERT INTO ACTOR(ACT_ID,ACT_NAME,ACT_GENDER )VALUES("12","JERI","MALE");

INSERT INTO ACTOR(ACT_ID,ACT_NAME,ACT_GENDER )VALUES("3","KEVIN","FEMALE");

SELECT * FROM  ACTOR;


INSERT INTO DIRECTOR(DIR_ID,DIR_NAME,DIR_PHONE )VALUES("4","HITCHCOCK","974789");

INSERT INTO DIRECTOR(DIR_ID,DIR_NAME,DIR_PHONE )VALUES("5","STEVEN SPIELBERG","56789");

SELECT *FROM DIRECTOR;


INSERT INTO
MOVIES(MOV_ID,MOV_TITLE,MOV_YEAR,MOV_LANG,DIR_ID)VALUES("6","GODFATHER","2000","ENG","4");

INSERT INTO
MOVIES(MOV_ID,MOV_TITLE,MOV_YEAR,MOV_LANG,DIR_ID)VALUES("7","INCEPTION","1968","ENG","5");

INSERT INTO
MOVIES(MOV_ID,MOV_TITLE,MOV_YEAR,MOV_LANG,DIR_ID)VALUES("8","12ANGRYMEN","2015","ENG","4");
```

INSERT INTO MOVIES(MOV_ID,MOV_TITLE,MOV_YEAR,MOV_LANG,DIR_ID)VALUES("9","RRR","2019","ENG","4");

INSERT INTO MOVIES(MOV_ID,MOV_TITLE,MOV_YEAR,MOV_LANG,DIR_ID)VALUES("9","DARKKNIGHT","2017","ENG","5");

SELECT * FROM MOVIES;

INSERT INTO MOVIE_CAST(ACT_ID,MOV_ID,ROLE)VALUES("1","6","SAILOR");

INSERT INTO MOVIE_CAST(ACT_ID,MOV_ID,ROLE)VALUES("12","7","ENGINEER");

INSERT INTO MOVIE_CAST(ACT_ID,MOV_ID,ROLE)VALUES("3","6","PIRAT");

INSERT INTO MOVIE_CAST(ACT_ID,MOV_ID,ROLE)VALUES("3","8","DOCTOR");

INSERT INTO MOVIE_CAST(ACT_ID,MOV_ID,ROLE)VALUES("2","8","CAPTAIN");

INSERT INTO MOVIE_CAST(ACT_ID,MOV_ID,ROLE)VALUES("3","9","COOK");

CREATE TABLE RATING(MOV_ID VARCHAR(20) NOT NULL,

        REV_STARS VARCHAR(20) NOT NULL);

INSERT INTO RATING(MOV_ID,REV_STARS)VALUES("6","6");

INSERT INTO RATING(MOV_ID,REV_STARS)VALUES("7","3");

INSERT INTO RATING(MOV_ID,REV_STARS)VALUES("7","15");

INSERT INTO RATING(MOV_ID,REV_STARS)VALUES("8","6");

INSERT INTO RATING(MOV_ID,REV_STARS)VALUES("8","8");

INSERT INTO RATING(MOV_ID,REV_STARS)VALUES("9","9");

1) SELECT MOV_TITLE ,DIR_NAME

FROM MOVIES JOIN DIRECTOR ON

MOVIES.DIR_ID = DIRECTOR.DIR_ID

WHERE DIR_NAME="HITCHCOCK";

2) select a.Act_Name,c.Mov_Title from ACTOR a join

 (select m.Mov_Title,m.Mov_id as movie,mc.Act_id as Actor,mc.Act_id from MOVIES m join MOVIE_CAST mc on m.Mov_id=mc.Mov_id

 group by m.Mov_Title) c on a.Act_id=c.Act_id group by a.Act_Name having count(a.Act_Name)>1 ;

3) SELECT ACT_NAME,MOV_YEAR FROM ACTOR JOIN MOVIE_CAST ON MOVIE_CAST.ACT_ID =ACTOR.ACT_ID JOIN MOVIES ON MOVIE_CAST .MOV_ID=MOVIES.ID WHERE MOV_YEAR<2000 OR MOV_YEAR>2015;

4) SELECT MOV_TITLE,MAX(REV_STARS) FROM MOVIES JOIN RATING ON RATING.MOV_ID=MOVIES.MOV_ID WHERE MOV_TITLE IN(SELECT MOV_TITLE FROM MOVIES GROUP BY MOV_ID HAVING MAX(REV_STARS>0) ORDER BY MOV_TITLE);

 5) SET SQL_SAFE_UPDATES=0;

UPDATE RATING SET REV_STARS="5" WHERE MOV_ID IN(SELECT MOV_ID FROM MOVIES JOIN DIRECTOR ON MOVIES.DIR_ID=DIRECTOR.DIR_ID WHERE DIRECTOR. DIR_NAME="STEVEN SPIELBERG");

SELECT REV_STARS,MOV_ID FROM RATING WHERE MOV_ID=7;

OUTPUTS:

1

2.

3

4

mov_title	MAX(rev_stars)
12ANGRYMEN	8
DARKKNIGHT	9
GODFATHER	6
INCEPTION	3
RRR	9

Result 34

Read Only   Context Help   Snippets

Output

Action Output

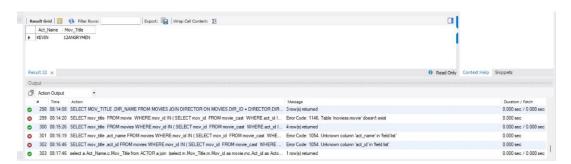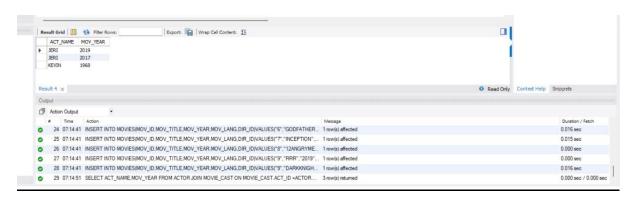| #	Time	Action	Message	Duration / Fetch
300	08:15:26	SELECT mov_title FROM movies WHERE mov_id IN (SELECT mov_id FROM movie_cast WHERE act_id I...	4 row(s) returned	0.000 sec / 0.000 sec
301	08:16:19	SELECT mov_title ,act_name FROM movies WHERE mov_id IN (SELECT mov_id FROM movie_cast WHE...	Error Code: 1054. Unknown column 'act_name' in 'field list'	0.000 sec
302	08:16:46	SELECT mov_title ,act_id FROM movies WHERE mov_id IN (SELECT mov_id FROM movie_cast WHERE ...	Error Code: 1054. Unknown column 'act_id' in 'field list'	0.000 sec
303	08:17:46	select a.Act_Name,c.Mov_Title from ACTOR a join (select m.Mov_Title,m.Mov_id as movie,mc.Act_id as Acto...	1 row(s) returned	0.000 sec / 0.000 sec
304	08:29:15	SELECT MOV_TITLE,MAX(REV_STARS) FROM MOVIES JOIN RATING ON RATING.MOV_ID=MOVIES.M...	1 row(s) returned	0.000 sec / 0.000 sec
305	08:30:24	SELECT mov_title, MAX(rev_stars) FROM movies INNER JOIN rating USING(mov_id) GROUP BY mov_title H...	5 row(s) returned	0.000 sec / 0.000 sec

5

REV_STARS	MOV_ID
5	7
5	7

RATING 35

Read Only   Context Help   Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
303	08:17:46	select a.Act_Name,c.Mov_Title from ACTOR a join (select m.Mov_Title,m.Mov_id as movie,mc.Act_id as Acto...	1 row(s) returned	0.000 sec / 0.000 sec
304	08:29:15	SELECT MOV_TITLE,MAX(REV_STARS) FROM MOVIES JOIN RATING ON RATING.MOV_ID=MOVIES.M...	1 row(s) returned	0.000 sec / 0.000 sec
305	08:30:24	SELECT mov_title, MAX(rev_stars) FROM movies INNER JOIN rating USING(mov_id) GROUP BY mov_title H...	5 row(s) returned	0.000 sec / 0.000 sec
306	08:33:09	SET SQL_SAFE_UPDATES=0	0 row(s) affected	0.000 sec
307	08:33:09	UPDATE RATING SET REV_STARS="5" WHERE MOV_ID IN(SELECT MOV_ID FROM MOVIES JOIN DIR...	3 row(s) affected Rows matched: 3 Changed: 3 Warnings: 0	0.015 sec
308	08:33:09	SELECT REV_STARS,MOV_ID FROM RATING WHERE MOV_ID=7 LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec