

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 'Speed'.
- 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

```
CREATE DATABASE MOVIE;
```

```
USE MOVIE;
```

```
CREATE TABLE ACTOR(  
    ACT_ID INT,  
    ACT_NAME VARCHAR(10),  
    ACT_GENDER VARCHAR(10),  
    PRIMARY KEY(ACT_ID)  
);
```

```
CREATE TABLE DIRECTOR(  
    DIR_ID INT,
```

```
DIR_ID INT,  
DIR_NAME VARCHAR(10),  
DIR_PHONE INT,  
PRIMARY KEY(DIR_ID)  
);
```

```
CREATE TABLE MOVIES(  
MOV_ID INT,  
MOV_TITLE VARCHAR(10),  
MOV_YEAR VARCHAR(10),  
MOV_LANG VARCHAR(10),  
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,  
ROLE_PLAYED VARCHAR(10),  
FOREIGN KEY(ACT_ID) REFERENCES ACTOR(ACT_ID),  
FOREIGN KEY(MOV_ID) REFERENCES MOVIES(MOV_ID)  
);
```

```
CREATE TABLE RATING(  
MOV_ID INT, REV_STARS FLOAT,  
FOREIGN KEY(MOV_ID) REFERENCES MOVIES(MOV_ID)  
);
```

















```
INSERT INTO ACTOR VALUES(2,'Reeves','MALE');
```

```
INSERT INTO ACTOR VALUES(1,'Ice T','MALE');
```

INSERT INTO ACTOR VALUES(5,'Rai','FEMALE');

INSERT INTO ACTOR VALUES(3,'Khan','MALE');

INSERT INTO ACTOR VALUES(4,'Pitt','MALE');

		ACT_ID	ACT_NAME	ACT_GENDER
<input type="checkbox"/>	 Edit  Copy  Delete	1	Ice T	MALE
<input type="checkbox"/>	 Edit  Copy  Delete	2	Reeves	MALE
<input type="checkbox"/>	 Edit  Copy  Delete	3	Khan	MALE
<input type="checkbox"/>	 Edit  Copy  Delete	4	Pitt	MALE
<input type="checkbox"/>	 Edit  Copy  Delete	5	Rai	FEMALE

SELECT * FROM ACTOR;

















INSERT INTO DIRECTOR VALUES(30,'Clint',247382);

INSERT INTO DIRECTOR VALUES(20,'Steven',241829);

INSERT INTO DIRECTOR VALUES(10,'Speed',241342);

INSERT INTO DIRECTOR VALUES(50,'Kevin',241456);

INSERT INTO DIRECTOR VALUES(40,'Downey',241666);

		DIR_ID	DIR_NAME	DIR_PHONE
<input type="checkbox"/>	 Edit  Copy  Delete	10	Speed	241342
<input type="checkbox"/>	 Edit  Copy  Delete	20	Steven	241829
<input type="checkbox"/>	 Edit  Copy  Delete	30	Clint	247382
<input type="checkbox"/>	 Edit  Copy  Delete	40	Downey	241666
<input type="checkbox"/>	 Edit  Copy  Delete	50	Kevin	241456

SELECT * FROM DIRECTOR;

INSERT INTO MOVIES VALUES(44,'GUILTY',2020,'HINDI',10);

INSERT INTO MOVIES VALUES(33,'1917',1999,'ENGLISH',10);

INSERT INTO MOVIES VALUES(11,'NOTEBOOK',2018,'HINDI',20);

INSERT INTO MOVIES VALUES(22,'AVENGERS',2007,'ENGLISH',20);

INSERT INTO MOVIES VALUES(55,'WAR',2018,'HINDI',50);

		MOV_ID	MOV_TITLE	MOV_YEAR	MOV_LANG	DIR_ID
<input type="checkbox"/>	Edit Copy Delete	11	NOTEBOOK	2018	HINDI	20
<input type="checkbox"/>	Edit Copy Delete	22	AVENGERS	2007	ENGLISH	20
<input type="checkbox"/>	Edit Copy Delete	33	1917	1999	ENGLISH	10
<input type="checkbox"/>	Edit Copy Delete	44	GUILTY	2020	HINDI	10
<input type="checkbox"/>	Edit Copy Delete	55	WAR	2018	HINDI	50

SELECT * FROM MOVIES;

INSERT INTO MOVIE_CAST VALUES(5,55,'VILLAIN');

INSERT INTO MOVIE_CAST VALUES(1,55,'MAIN LEAD');

INSERT INTO MOVIE_CAST VALUES(5,22,'SISTER');

INSERT INTO MOVIE_CAST VALUES(4,22,'MAIN LEAD');

INSERT INTO MOVIE_CAST VALUES(4,55,'BROTHER');

INSERT INTO MOVIE_CAST VALUES(2,44,'VILLAIN');

ACT_ID	MOV_ID	ROLE_PLAYED
5	55	VILLAIN
1	55	MAIN LEAD
5	22	SISTER
4	22	MAIN LEAD
4	55	BROTHER
2	44	VILLAIN

SELECT * FROM MOVIE_CAST;

INSERT INTO RATING VALUES(11,4);

INSERT INTO RATING VALUES(55,3.5);

INSERT INTO RATING VALUES(22,2.5);

INSERT INTO RATING VALUES(11,3.5);

INSERT INTO RATING VALUES(11,4);

MOV_ID	REV_STARS
11	4
55	3.5
22	2.5
11	3.5
11	4

SELECT * FROM RATING;

SELECT D.DIR_NAME,M.MOV_TITLE FROM DIRECTOR D,MOVIES M WHERE D.DIR_ID=M.DIR_ID AND D.DIR_NAME='Speed'; #1

Showing rows 0 - 1 (2 total, Query took 0.0843 seconds.)

```
SELECT D.DIR_NAME,M.MOV_TITLE FROM DIRECTOR D,MOVIES M WHERE D.DIR_ID=M.DIR_ID AND D.DIR_NAME='Speed'
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

+ Options

DIR_NAME	MOV_TITLE
Speed	1917
Speed	GUILTY

SELECT M.MOV_TITLE FROM MOVIES M,MOVIE_CAST MC WHERE M.MOV_ID=MC.MOV_ID AND MC.ACT_ID IN(SELECT ACT_ID FROM MOVIE_CAST GROUP BY ACT_ID HAVING COUNT(*)>1) GROUP BY M.MOV_TITLE HAVING COUNT(*)>1; #2

Showing rows 0 - 1 (2 total, Query took 0.0753 seconds.)

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

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

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	MOV_TITLE
<input type="checkbox"/> Edit Copy Delete	AVENGERS
<input type="checkbox"/> Edit Copy Delete	WAR

SELECT ACT_NAME FROM (MOVIES NATURAL JOIN MOVIE_CAST) NATURAL JOIN ACTOR WHERE MOV_YEAR>2015 OR MOV_YEAR<2000; #3

Showing rows 0 - 3 (4 total, Query took 0.0920 seconds.)

```
SELECT ACT_NAME FROM (MOVIES NATURAL JOIN MOVIE_CAST) NATURAL JOIN ACTOR WHERE MOV_YEAR>2015 OR MOV_YEAR<2000
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

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ACT_NAME
Rai
Ice T
Pitt
Reeves

SELECT M.MOV_TITLE,MAX(R.REV_STARS) AS MAX_RATING FROM MOVIES M,RATING R WHERE M.MOV_ID=R.MOV_ID GROUP BY R.MOV_ID ORDER BY M.MOV_TITLE; #4

✓ Showing rows 0 - 2 (3 total, Query took 0.0796 seconds.) [MOV_TITLE: AVENGERS... - WAR...]

```
SELECT M.MOV_TITLE,MAX(R.REV_STARS) AS MAX_RATING FROM MOVIES M,RATING R WHERE M.MOV_ID=R.MOV_ID GROUP BY R.MOV_ID ORDER BY M.MOV_TITLE
```

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☐ Show all | Number of rows: Filter rows:

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		MOV_TITLE	MAX_RATING
<input type="checkbox"/>	Edit Copy Delete	AVENGERS	2.5
<input type="checkbox"/>	Edit Copy Delete	NOTEBOOK	4
<input type="checkbox"/>	Edit Copy Delete	WAR	3.5

UPDATE RATING SET REV_STARS=5 WHERE MOV_ID IN (SELECT M.MOV_ID FROM MOVIES M,DIRECTOR D WHERE M.DIR_ID=D.DIR_ID AND D.DIR_NAME='Steven');

SELECT * FROM RATING; #5

MOV_ID	REV_STARS
11	5
55	3.5
22	5
11	5
11	5