DIR PHONE LONG,

# **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. **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),

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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');
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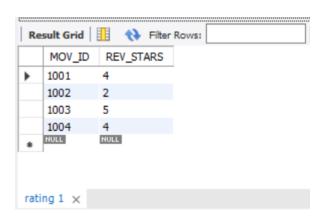
INSERT INTO DIRECTOR VALUES (60,'RAJAMOULI', 8751611001);
INSERT INTO DIRECTOR VALUES (61,'HITCHCOCK', 7766138911);
INSERT INTO DIRECTOR VALUES (62,'FARAN', 9986776531);
INSERT INTO DIRECTOR VALUES (63,'STEVEN SPIELBERG', 8989776530);

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);

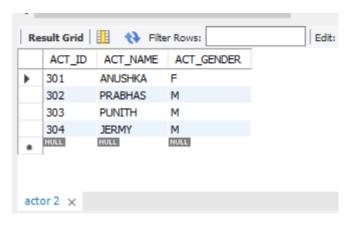
INSERT INTO MOVIE\_CAST VALUES (301, 1002, 'HEROINE');
INSERT INTO MOVIE\_CAST VALUES (301, 1001, 'HEROINE');
INSERT INTO MOVIE\_CAST VALUES (303, 1003, 'HERO');
INSERT INTO MOVIE\_CAST VALUES (303, 1002, 'GUEST');
INSERT INTO MOVIE\_CAST VALUES (304, 1004, 'HERO');

INSERT INTO RATING VALUES (1001, 4); INSERT INTO RATING VALUES (1002, 2); INSERT INTO RATING VALUES (1003, 5); INSERT INTO RATING VALUES (1004, 4);

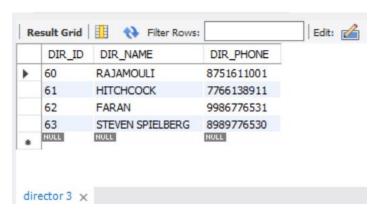
select \* from rating;



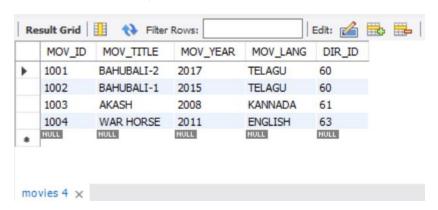
### select \* from actor;



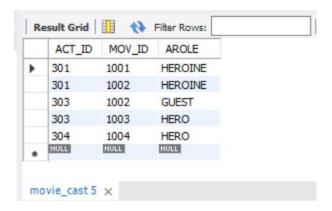
### select \* from director;



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

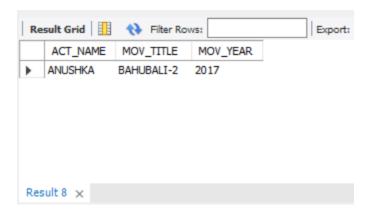
JOIN MOVIE\_CAST C

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)

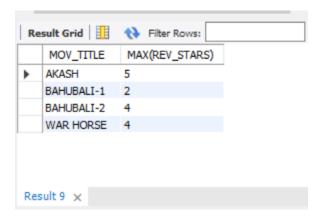
FROM MOVIES

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;

