## 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)

## **CREATING TABLES:**

## CREATE DATABASE MOVIE DATABASE;

CREATE TABLE ACTOR (
ACT\_ID INTEGER PRIMARY KEY,
ACT\_NAME VARCHAR(20),
ACT\_GENDER CHAR(1));

CREATE TABLE DIRECTOR(
DIR\_ID INTEGER PRIMARY KEY,
DIR\_NAME VARCHAR(20),
DIR\_PHONE INTEGER);

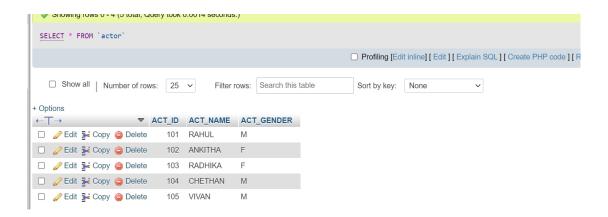
CREATE TABLE MOVIES(
MOV\_ID INTEGER PRIMARY KEY,
MOV\_TITLE VARCHAR(25),
MOV\_YEAR INTEGER,
MOV\_LANG VARCHAR(15),
DIR\_ID INTEGER,
FOREIGN KEY (DIR\_ID) REFERENCES DIRECTOR(DIR\_ID));

CREATE TABLE MOVIE\_CAST(
ACT\_ID INTEGER,
MOV\_ID INTEGER,
ROLE VARCHAR(10),
PRIMARY KEY (ACT\_ID,MOV\_ID),
FOREIGN KEY (ACT\_ID) REFERENCES ACTOR(ACT\_ID),
FOREIGN KEY (MOV\_ID) REFERENCES MOVIES(MOV\_ID));

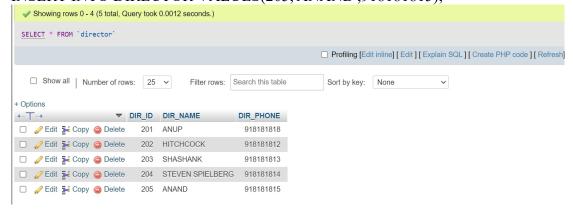
CREATE TABLE RATING(
MOV\_ID INTEGER PRIMARY KEY,
REV\_STARS VARCHAR(25),
FOREIGN KEY (MOV\_ID) REFERENCES MOVIES(MOV\_ID));

## **INSERTION:**

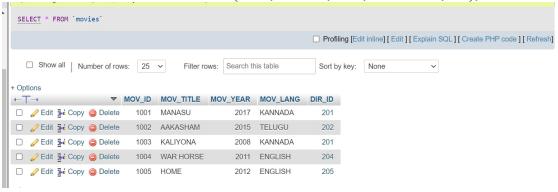
INSERT INTO ACTOR VALUES(101,'RAHUL','M'); INSERT INTO ACTOR VALUES(102,'ANKITHA','F'); INSERT INTO ACTOR VALUES(103,'RADHIKA','F'); INSERT INTO ACTOR VALUES(104,'CHETHAN','M'); INSERT INTO ACTOR VALUES(105,'VIVAN','M');



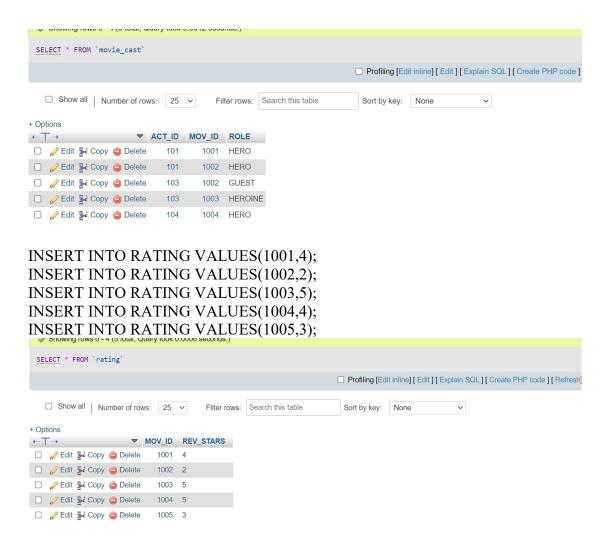
INSERT INTO DIRECTOR VALUES(201,'ANUP',918181818); INSERT INTO DIRECTOR VALUES(202,'HITCHCOCK',918181812); INSERT INTO DIRECTOR VALUES(203,'SHASHANK',918181813); INSERT INTO DIRECTOR VALUES(204,'STEVEN SPIELBERG',918181814); INSERT INTO DIRECTOR VALUES(205,'ANAND',918181815);



INSERT INTO MOVIES VALUES(1001,'MANASU',2017,'KANNADA',201); INSERT INTO MOVIES VALUES(1002,'AAKASHAM',2015,'TELUGU',202); INSERT INTO MOVIES VALUES(1003,'KALIYONA',2008,'KANNADA',201); INSERT INTO MOVIES VALUES(1004,'WAR HORSE',2011,'ENGLISH',204); INSERT INTO MOVIES VALUES(1005,'HOME',2012,'ENGLISH',205);



INSERT INTO MOVIE\_CAST VALUES(101,1002,'HERO'); INSERT INTO MOVIE\_CAST VALUES(101,1001,'HERO'); INSERT INTO MOVIE\_CAST VALUES(103,1003,'HEROINE'); INSERT INTO MOVIE\_CAST VALUES(103,1002,'GUEST'); INSERT INTO MOVIE\_CAST VALUES(104,1004,'HERO');



i. List the titles of all movies directed by 'Hitchcock'.

SELECT MOV\_TITLE
FROM MOVIES
WHERE DIR\_ID = (SELECT DIR\_ID
FROM DIRECTOR
WHERE DIR\_NAME='HITCHCOCK')

	SHOW Query DOX
	SELECT MOV_TITLE FROM MOVIES WHERE DIR_ID = (SELECT DIR_ID FROM DIRECTOR WHERE DIR_NAME='HITCHCOCK')
	□ Profiling [Edit   Explain SQL   Create PHP code   Refresh]
	☐ Show all  Number of rows: 25 ∨ Filter rows: Search this table
I	+ Options
I	←T→ MOV_TITLE
	☐ 🥜 Edit 🛂 Copy 🥥 Delete AAKASHAM

ii. Find the movie names where one or more actors acted in two or more movies.

SELECT MOV\_TITLE
FROM MOVIES M,MOVIE\_CAST MC
WHERE M.MOV\_ID=MC.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;



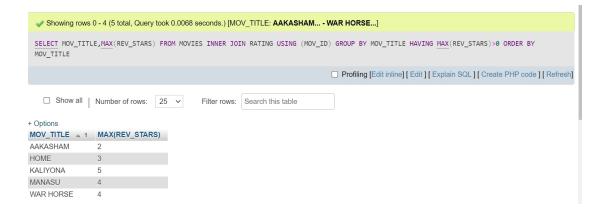
iii. List all actors who acted in a movie before 2000 and also in a movie after 2015 (use JOIN operation).

SELECT ACT\_NAME
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;



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.

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;



v. Update rating of all movies directed by 'Steven Spielberg' to 5.

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'));

