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DBMS LAB PROGRAM - 6

MOVIE DATABASE

QUESTION:

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 ALSO 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.

PROGRAM CODE:

CREATE DATABASE MOVIE;
USE MOVIE;
CREATE TABLE ACTOR (
ACT_ID INT,
ACT_NAME VARCHAR (20),
ACT_GENDER CHAR (1),
PRIMARY KEY (ACT_ID));

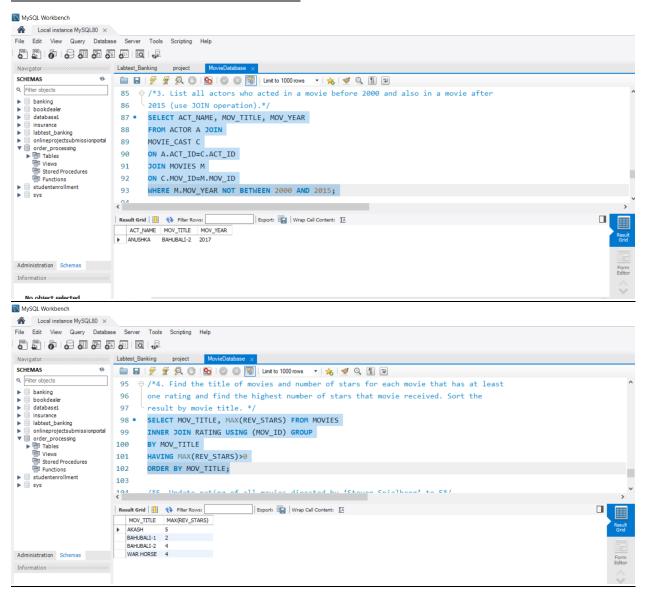
CREATE TABLE DIRECTOR (
DIR_ID INT,
DIR_NAME VARCHAR (20),
DIR_PHONE REAL,

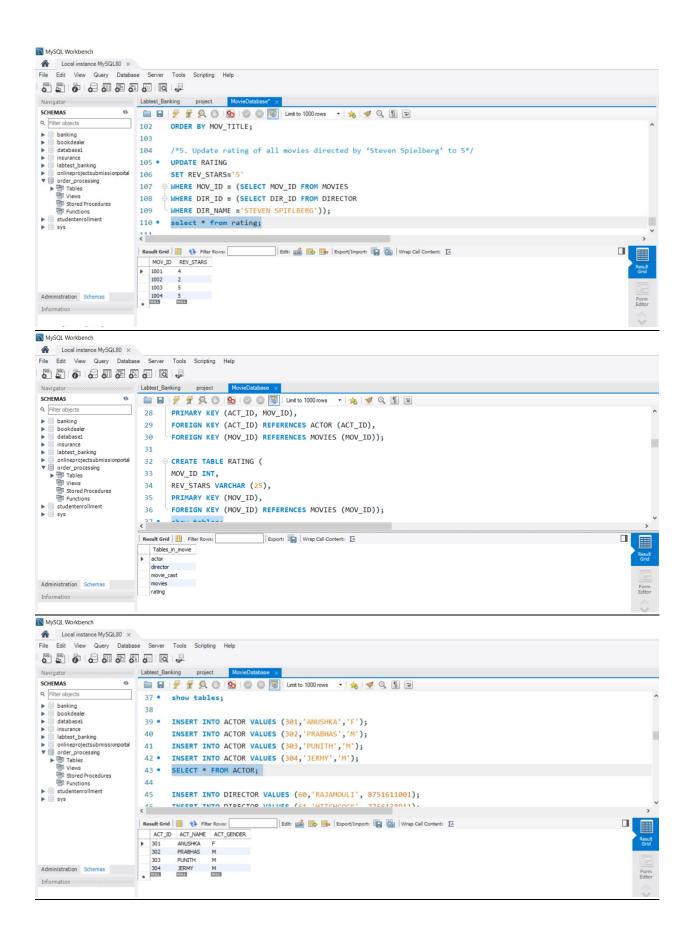
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PRIMARY KEY (DIR_ID));
CREATE TABLE MOVIES (
MOV ID INT,
MOV TITLE VARCHAR (25),
MOV YEAR INT,
MOV LANG VARCHAR (12),
DIR_ID INT,
PRIMARY KEY (MOV_ID),
FOREIGN KEY (DIR_ID) REFERENCES DIRECTOR (DIR_ID));
CREATE TABLE MOVIE CAST (
ACT_ID INT,
MOV ID INT,
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 INT,
REV STARS VARCHAR (25),
PRIMARY KEY (MOV ID),
FOREIGN KEY (MOV ID) REFERENCES MOVIES (MOV ID));
SHOW TABLES;
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');
SELECT * FROM ACTOR;
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);
SELECT * FROM DIRECTOR;
INSERT INTO MOVIES VALUES (1001, 'BAHUBALI-2', 2017, 'TELUGU', 60);
INSERT INTO MOVIES VALUES (1002, 'BAHUBALI-1', 2015, 'TELUGU', 60);
INSERT INTO MOVIES VALUES (1003, 'AKASH', 2008, 'KANNADA', 61);
INSERT INTO MOVIES VALUES (1004, WAR HORSE', 2011, 'ENGLISH', 63);
SELECT * FROM MOVIES;
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');
```

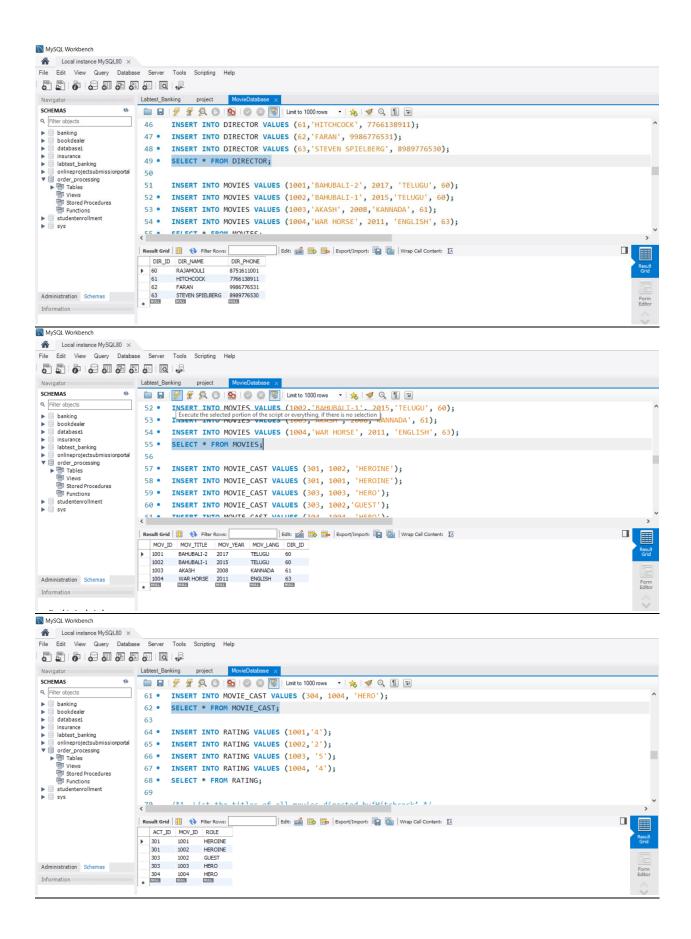
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INSERT INTO MOVIE CAST VALUES (304, 1004, 'HERO');
SELECT * FROM MOVIE CAST;
INSERT INTO RATING VALUES (1001,'4');
INSERT INTO RATING VALUES (1002,'2');
INSERT INTO RATING VALUES (1003, '5');
INSERT INTO RATING VALUES (1004, '4');
SELECT * FROM RATING;
/*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(MOV TITLE)>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*/
UPDATE RATING
SET REV STARS='5'
WHERE MOV_ID = (SELECT MOV_ID FROM MOVIES
WHERE DIR ID = (SELECT DIR ID FROM DIRECTOR
```

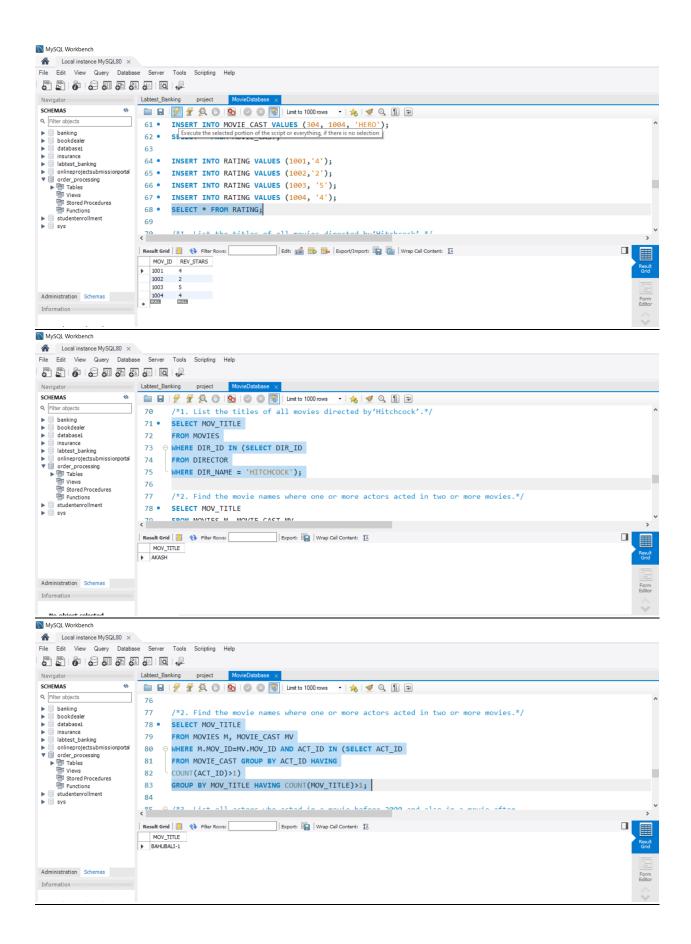
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WHERE DIR_NAME ='STEVEN
SPIELBERG'));
SELECT * FROM RATING;
```

SCREENSHOTS OF THE PROGRAM OUTPUT:









** END OF LAB PROGRAM WEEK - 6**