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DATE : 09/06/21

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),

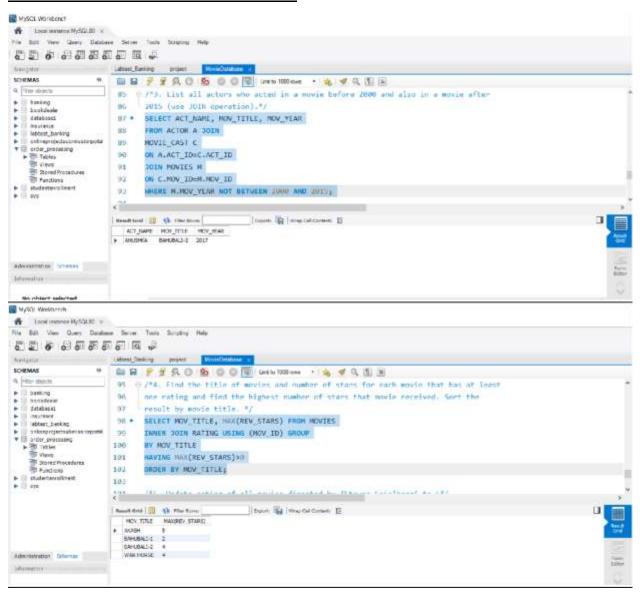
DIR_PHONE REAL,

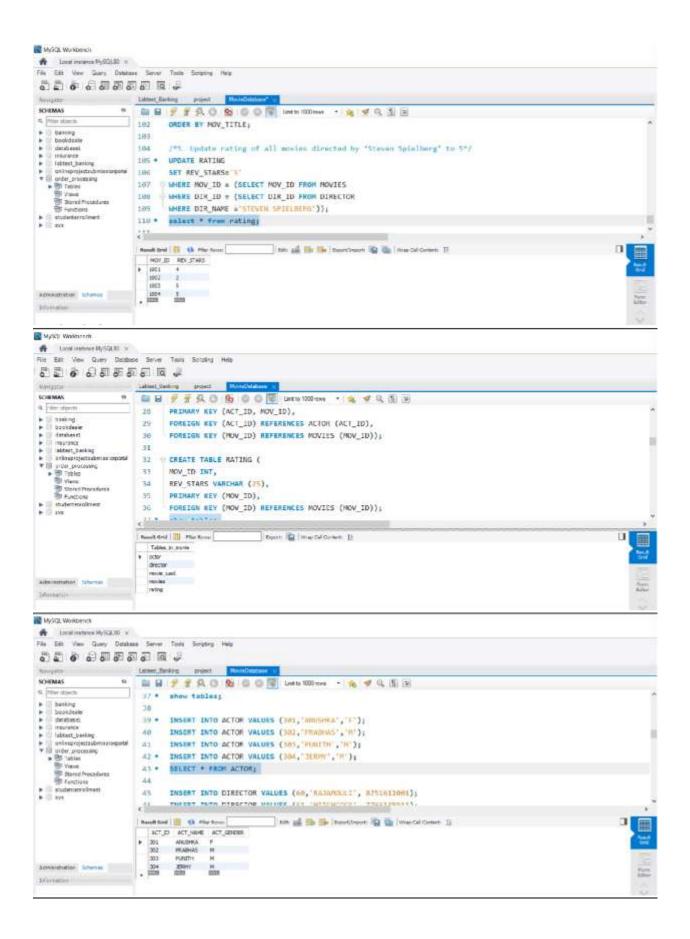
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PRIMARY KEY (DIR ID));
CREATE TABLE MOVIES (
MOV_ID INT,
MOV TITLE VARCHAR (25),
MOV YEAR INT,
MOV_LANG VARCHAR (12),
DIR ID INT,
PRIMARY KEY (MOV ID),
FOREIGN KEY (DIR ID) REFERENCES DIRECTOR (DIR ID));
CREATE TABLE MOVIE CAST (
ACT_ID INT,
MOV ID 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');
```

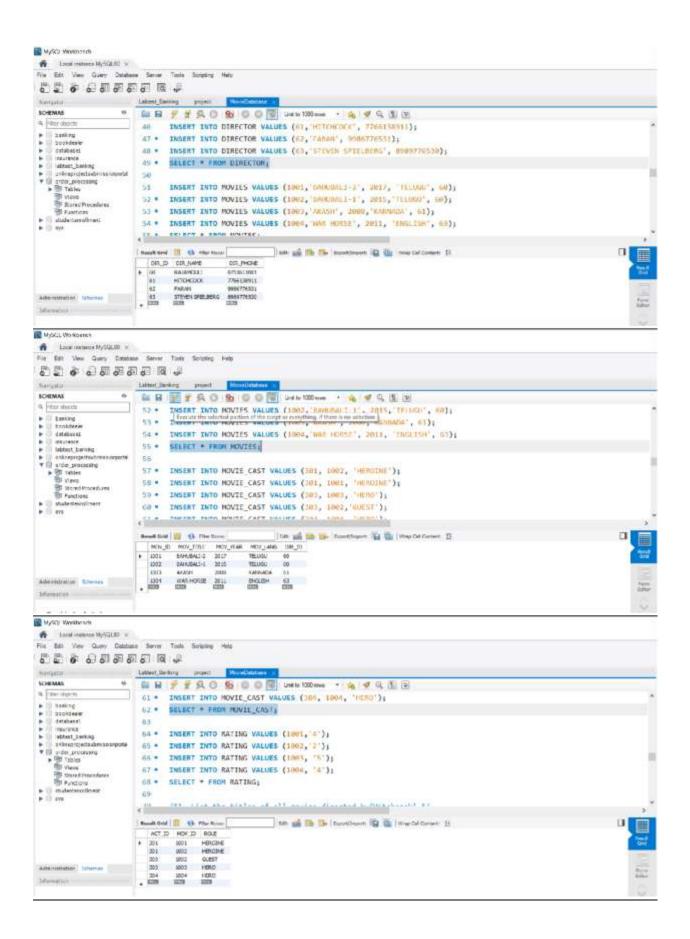
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INSERT INTO MOVIE CAST VALUES (304, 1004,
'HERO'); SELECT * FROM MOVIE CAST;
INSERT INTO RATING VALUES (1001,'4');
INSERT INTO RATING VALUES (1002,'2');
INSERT INTO RATING VALUES (1003, '5');
INSERT INTO RATING VALUES (1004, '4');
SELECT * FROM RATING;
/*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
```

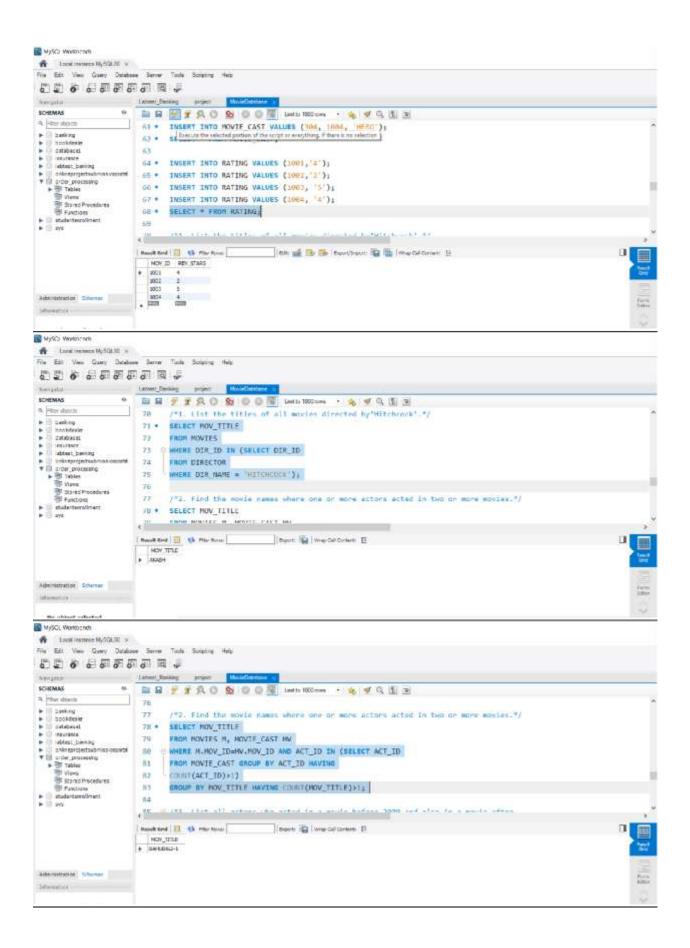
```
WHERE DIR_NAME ='STEVEN
SPIELBERG'));
SELECT * FROM RATING;
```

SCREENSHOTS OF THE PROGRAM OUTPUT:









** END OF LAB PROGRAM WEEK - 6**