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)

```
MySQL returned an empty result set (i.e. zero rows). (Query took 0.3704 seconds.)
 CREATE TABLE ACTOR ( ACT_ID INT (3) PRIMARY KEY, ACT_NAME VARCHAR (20), ACT_GENDER VARCHAR (1) )
[ Edit inline ] [ Edit ] [ Create PHP code ]
 MySQL returned an empty result set (i.e. zero rows). (Query took 0.2360 seconds.)
 CREATE TABLE DIRECTOR ( DIR ID INT (3) PRIMARY KEY, DIR NAME VARCHAR (20), DIR PHONE INT (10) )
[Edit inline] [Edit] Create PHP code]
 MySQL returned an empty result set (i.e. zero rows). (Query took 0.1630 seconds.)
 CREATE TABLE MOVIES ( MOV ID INT (4) PRIMARY KEY , MOV TITLE VARCHAR (25), MOV YEAR INT (4), MOV LANG VARCHAR (12), DIR ID INT (3),
 FOREIGN KEY (DIR ID) REFERENCES DIRECTOR (DIR ID) on UPDATE CASCADE ON DELETE CASCADE)
[ Edit inline ] [ Edit ] [ Create PHP code ]
 MySQL returned an empty result set (i.e. zero rows). (Query took 0.1658 seconds.)
 CREATE TABLE MOVIE CAST ( ACT ID INT (3), MOV ID INT (4), ROLE VARCHAR (10), FOREIGN KEY (ACT ID) REFERENCES ACTOR (ACT ID) on UPDATE
 CASCADE ON DELETE CASCADE, FOREIGN KEY (MOV_ID) REFERENCES MOVIES (MOV_ID) on UPDATE CASCADE ON DELETE CASCADE)
[Edit inline][Edit][Create PHP code]
 MySQL returned an empty result set (i.e. zero rows). (Query took 0.2214 seconds.)
 CREATE TABLE RATING ( MOV_ID INT (4), REV_STARS VARCHAR (25), FOREIGN KEY (MOV_ID) REFERENCES MOVIES (MOV_ID) on UPDATE CASCADE ON DELETE
 CASCADE)
[ Edit inline ] [ Edit ] [ Create PHP code ]
```



```
√ 1 row inserted. (Query took 0.0422 seconds.)

 INSERT INTO `actor` VALUES (101, 'Hrithik', 'M')
[ Edit inline ] [ Edit ] [ Create PHP code ]

√ 1 row inserted. (Query took 0.0626 seconds.)

 INSERT INTO `actor` VALUES (102, 'Shahrukh', 'M')
[ Edit inline ] [ Edit ] [ Create PHP code ]

√ 1 row inserted. (Query took 0.0472 seconds.)

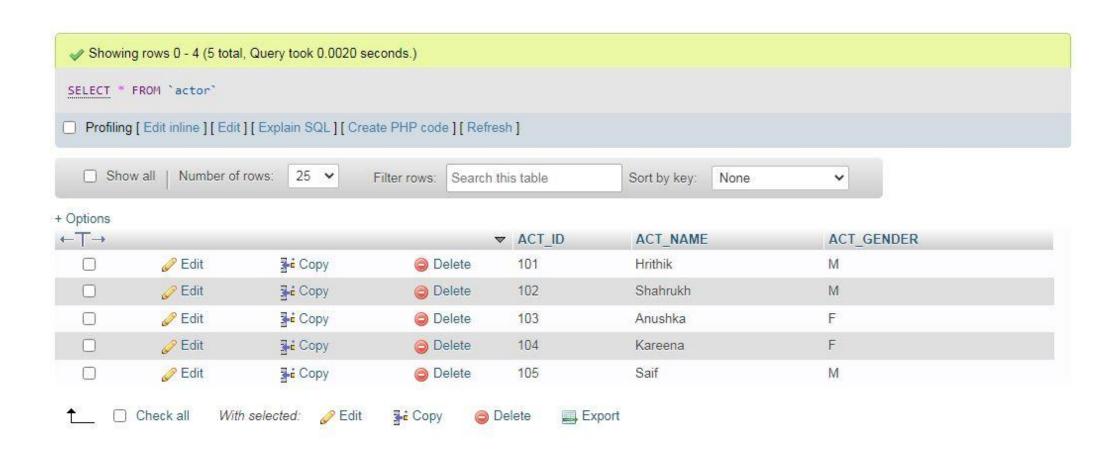
 INSERT INTO `actor` VALUES (103, 'Anushka', 'F')
[ Edit inline ] [ Edit ] [ Create PHP code ]

√ 1 row inserted. (Query took 0.0312 seconds.)

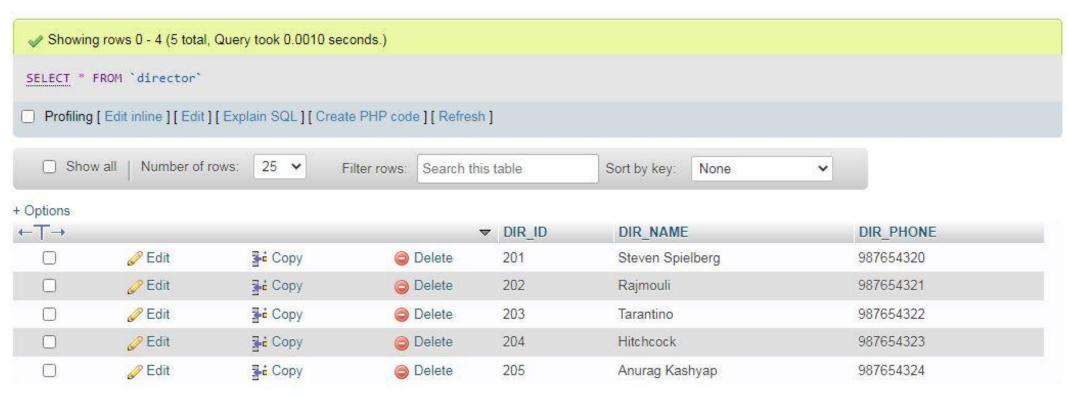
 INSERT INTO `actor` VALUES (104, 'Kareena', 'F')
[Edit inline][Edit][Create PHP code]

√ 1 row inserted. (Query took 0.0478 seconds.)

 INSERT INTO `actor` VALUES (105, 'Saif', 'M')
[ Edit inline ] [ Edit ] [ Create PHP code ]
```



```
1 row inserted. (Query took 0.0392 seconds.)
 INSERT INTO `director` VALUES (201, 'Steven Spielberg', 987654320)
[Edit inline][Edit][Create PHP code]
 1 row inserted. (Query took 0.1312 seconds.)
 INSERT INTO `director` VALUES (202, 'Rajmouli', 987654321)
[ Edit inline ] [ Edit ] [ Create PHP code ]
 1 row inserted. (Query took 0.0186 seconds.)
 INSERT INTO 'director' VALUES (203, 'Tarantino', 987654322)
[ Edit inline ] [ Edit ] [ Create PHP code ]
 1 row inserted. (Query took 0.0382 seconds.)
 INSERT INTO 'director' VALUES (204, 'Hitchcock', 987654323)
[ Edit inline ] [ Edit ] [ Create PHP code ]
 1 row inserted. (Query took 0.0312 seconds.)
 INSERT INTO 'director' VALUES (205, 'Anurag Kashyap', 987654324)
[ Edit inline ] [ Edit ] [ Create PHP code ]
```



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```
√ 1 row inserted. (Query took 0.0512 seconds.)

 INSERT INTO 'movies' VALUES (301, 'Malang', 2019, 'Hindi', 201)
[ Edit inline ] [ Edit ] [ Create PHP code ]

√ 1 row inserted. (Query took 0.1844 seconds.)

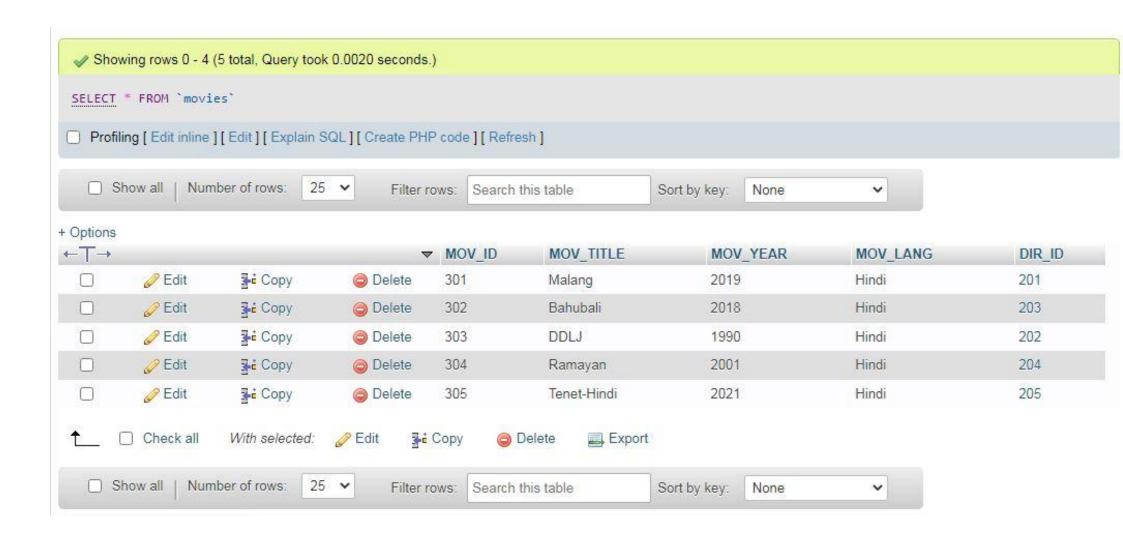
 INSERT INTO `movies` VALUES (302, 'Bahubali', 2018, 'Hindi', 203)
[ Edit inline ] [ Edit ] [ Create PHP code ]

√ 1 row inserted. (Query took 0.1278 seconds.)

 INSERT INTO `movies` VALUES (303, 'DDLJ', 1990, 'Hindi', 202)
[ Edit inline ] [ Edit ] [ Create PHP code ]

√ 1 row inserted. (Query took 0.0226 seconds.)

 INSERT INTO 'movies' VALUES (304, 'Ramayan', 2001, 'Hindi', 204)
[ Edit inline ] [ Edit ] [ Create PHP code ]
 1 row inserted. (Query took 0.0468 seconds.)
 INSERT INTO `movies` VALUES (305, 'Tenet-Hindi', 2021, 'Hindi', 205)
[ Edit inline ] [ Edit ] [ Create PHP code ]
```



```
1 row inserted. (Query took 0.0402 seconds.)
 INSERT INTO `movie_cast` VALUES (102,301,'Lead')
[ Edit inline ] [ Edit ] [ Create PHP code ]

√ 1 row inserted. (Query took 0.0844 seconds.)
 INSERT INTO `movie_cast` VALUES (101,302, 'Lead')
[ Edit inline ] [ Edit ] [ Create PHP code ]

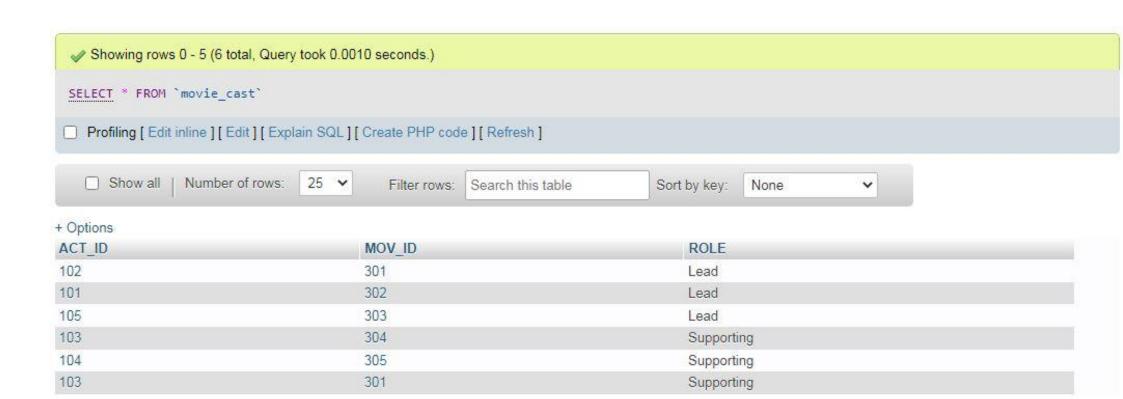
√ 1 row inserted. (Query took 0.0456 seconds.)

 INSERT INTO `movie_cast` VALUES (105,303,'Lead')
[ Edit inline ] [ Edit ] [ Create PHP code ]
 1 row inserted. (Query took 0.0410 seconds.)
 INSERT INTO `movie_cast` VALUES (103,304,'Supporting')
[ Edit inline ] [ Edit ] [ Create PHP code ]

√ 1 row inserted. (Query took 0.0310 seconds.)
 INSERT INTO `movie_cast` VALUES (104,305, 'Supporting')
[ Edit inline ] [ Edit ] [ Create PHP code ]

√ 1 row inserted. (Query took 0.0320 seconds.)

 INSERT INTO `movie_cast` VALUES (103,301, 'Supporting')
[ Edit inline ] [ Edit ] [ Create PHP code ]
```



```
√ 1 row inserted. (Query took 0.0798 seconds.)

 INSERT INTO 'RATING' VALUES (301,4)
[ Edit inline ] [ Edit ] [ Create PHP code ]

√ 1 row inserted. (Query took 0.1168 seconds.)

 INSERT INTO 'RATING' VALUES (302,2)
[ Edit inline ] [ Edit ] [ Create PHP code ]

√ 1 row inserted. (Query took 0.0430 seconds.)

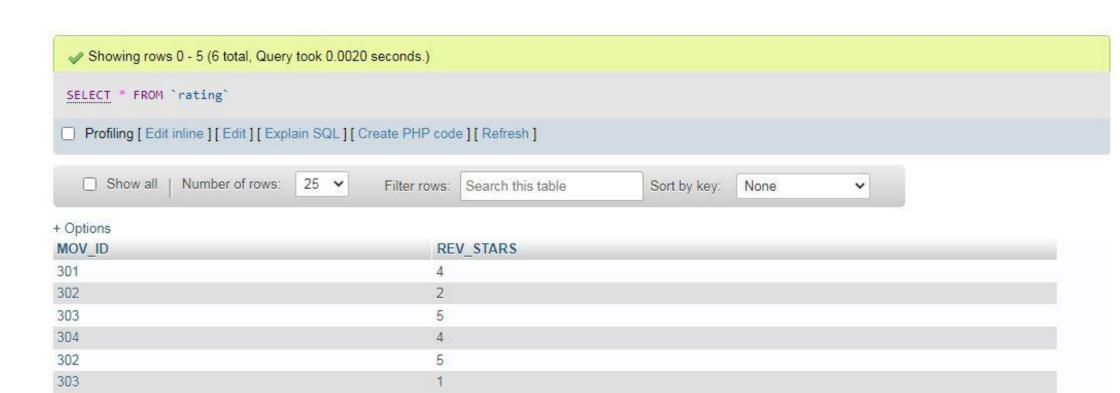
 INSERT INTO 'RATING' VALUES (303, 5)
[ Edit inline ] [ Edit ] [ Create PHP code ]

√ 1 row inserted. (Query took 0.0320 seconds.)

 INSERT INTO 'RATING' VALUES (304, 4)
[ Edit inline ] [ Edit ] [ Create PHP code ]

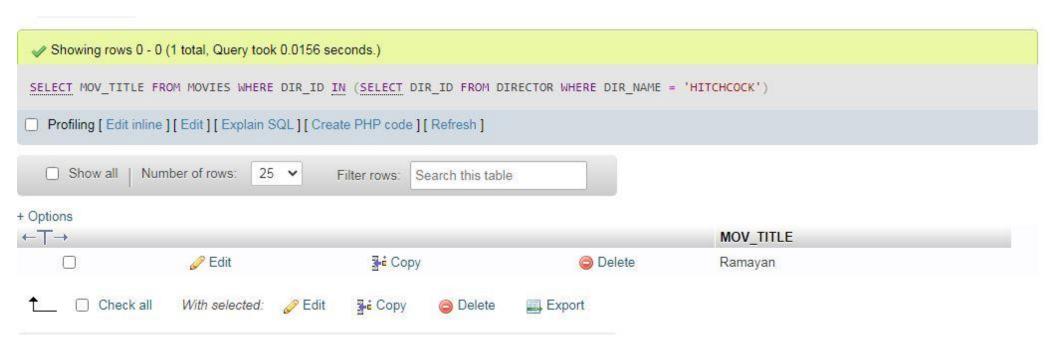
√ 1 row inserted. (Query took 0.0570 seconds.)

 INSERT INTO `RATING` VALUES (302,5)
[ Edit inline ] [ Edit ] [ Create PHP code ]
  1 row inserted. (Query took 0.0550 seconds.)
 INSERT INTO 'RATING' VALUES (303, 1)
[ Edit inline ] [ Edit ] [ Create PHP code ]
```



Write SQL queries to

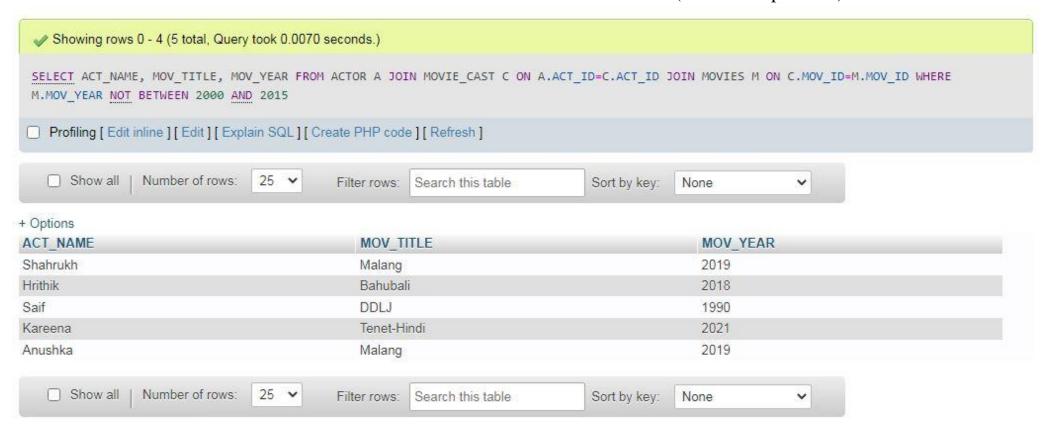
i. List the titles of all movies directed by 'Hitchcock'.



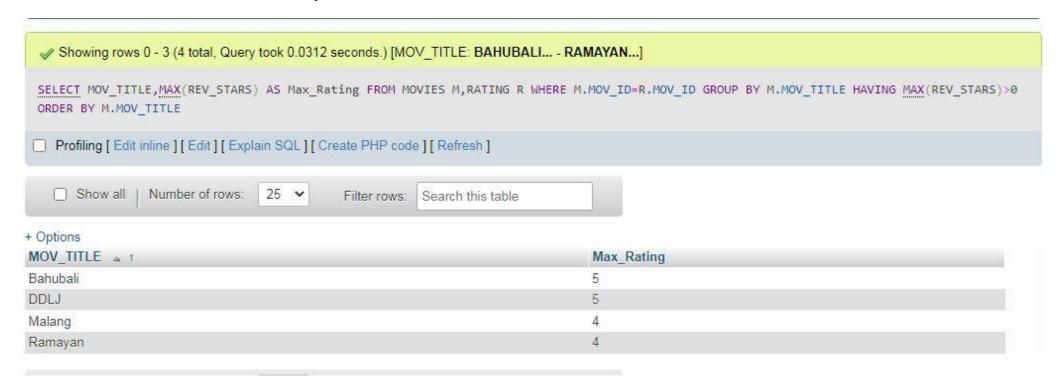
ii. Find the movie names where one or more actors acted in two or more movies.



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.

