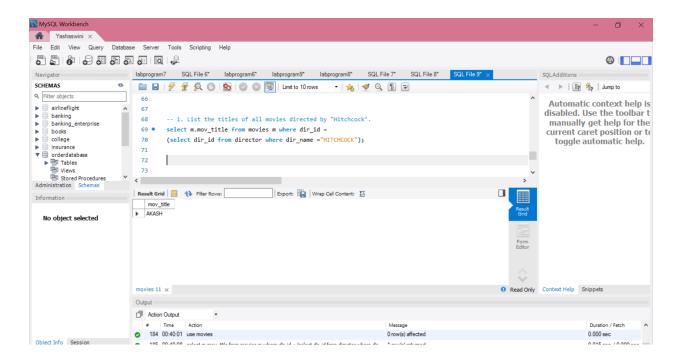
PROGRAM 9: MOVIE DATABASE

```
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
```

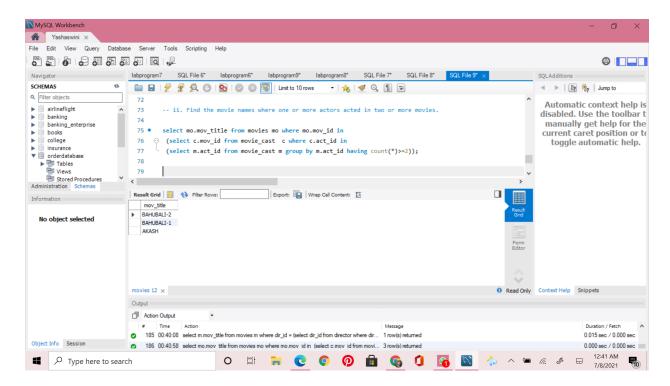
- i. List the titles of all movies directed by 'Hitchcock'.
- ii. Find the movie names where one or more actors acted in two or more movies.
- iii. List all actors who acted in a movie before 2000 and also in a movie after 2015 (use JOIN operation).
- iv. Find the title of movies and number of stars 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 movies:
use movies;
create table Actor(
act id int,
act name varchar(30),
act gender varchar(1),
constraint act_id primary key (act_id)
create table Director(
dir id int,
dir name varchar(30),
dir phone varchar(30),
constraint dir_id primary key (dir_id)
);
create table Movies(
mov id int,
mov title varchar(30),
mov year varchar(4),
mov_lang varchar(12),
dir id int,
constraint mov id primary key (mov id),
constraint mov id foreign key (dir id) references director(dir id)
);
create table movie_cast (
```

```
act id int,
mov_id int,
role varchar(10),
constraint mov pr primary key(act id ,mov id),
constraint mov act foreign key (act id) references actor(act id),
constraint mov mov foreign key (mov id) references movies(mov id)
);
create table rating (
mov id int,
rev stars varchar(25),
constraint rat primary key (mov id),
constraint rat_mov 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, 'jeremy', 'm');
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 MOVIE CAST VALUES (301, 1005, "HEROINE");
INSERT INTO MOVIE CAST VALUES (303, 1005, "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);
-- i. List the titles of all movies directed by "Hitchcock'.
select m.mov title from movies m where dir id = (select dir id from director where dir name
="HITCHCOCK");
```



-- ii. Find the movie names where one or more actors acted in two or more movies. select mo.mov_title from movies mo where mo.mov_id in (select c.mov_id from movie_cast c where c.act_id in (select m.act_id from movie_cast m group by m.act_id having count(*)>=2));

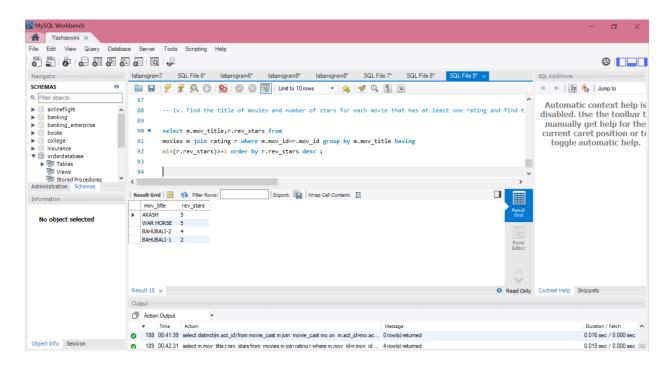


-- iii. List all actors who acted in a movie before 2000 and also in a movie after 2015 (use JOIN operation).

select distinct(m.act_id) from movie_cast m join movie_cast mo on m.act_id=mo.act_id and m.mov_id!=mo.mov_id where m.mov_id in (select mo.mov_id from movies mo where mo.mov_year>=2015) and mo.mov_id in (select mo.mov_id from movies mo where mo.mov_year<2000);

-- 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 m.mov_title,r.rev_stars from movies m join rating r where m.mov_id=r.mov_id group by m.mov_title having min(r.rev_stars)>=1 order by r.rev_stars desc;



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

update rating set rev_stars = 5 where mov_id in (select m.mov_id from movies m where m.dir_id in (select dir_id from director where dir_name="STEVEN SPIELBERG")); select * from rating;

