create database p3;

use p3;

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 bigint,primary key(dir\_id));

create table movies(mov\_id int, mov\_title varchar(25), mov\_year int,mov\_lang varchar(10), 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));

insert into actor values(101, 'Sam Neill', 'M');

insert into actor values(102, 'Keira Knightly', 'F');

insert into actor values(103, 'Adam Levine', 'M');

insert into actor values(104, 'Amy Adams', 'F');

insert into actor values(105, 'Suzzane', 'F');

insert into director values(501, 'John Carney', 9980621905);

insert into director values(502, 'Joe Wright', 9980621965);

insert into director values(503, 'Shaun Monson', 9980621966);

insert into director values(504, 'Steven Spielberg', 9230621366);

insert into director values(505, 'Hitchcock', 9240621366);

insert into movies values(1000, 'Begin Again', 2013, 'English', 501);

insert into movies values(1002, 'Pride and Prejudice', 2005, 'English', 502);

insert into movies values(1003, 'Unity', 2015, 'English', 503);

insert into movies values(1004, 'Jurassic Park', 1993, 'English', 504);

insert into movies values(1005, 'The Birds', 1963, 'English', 505);

insert into movies values(1006, 'The Woman In The Window', 2020, 'English',502);

insert into movie\_cast values (102, 1000, 'Heroine');

insert into movie\_cast values (102, 1002, 'Heroine');

insert into movie\_cast values (103, 1000, 'Hero');

insert into movie\_cast values (103, 1003, 'Guest');

insert into movie\_cast values (104, 1006, 'Heroine');

insert into movie\_cast values (105, 1005, 'Suzzane');

insert into movie\_cast values (101, 1004, 'Hero');

insert into rating values(1000, 3);

insert into rating values(1002, 5);

insert into rating values(1003, 4.5);

insert into rating values(1004, 4.7);

insert into rating values(1005,3);

insert into rating values (1006, 4.3);

select \* from actor;

select \* from movies;

select \* from director;

select \* from movie\_cast;

select \* from rating;

select mov\_title from movies where dir\_id in (select dir\_id from director where dir\_name = 'Hitchcock');

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(\*) > 1;

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;

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;

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'));

select \* from rating;