create database project\_movie\_data;

use project\_movie\_data;

create table actor(

act\_id int primary key ,

act\_fname varchar(20),

act\_lname varchar(20),

act\_gender char

);

desc actor;

drop table actor;

create table movie\_cast(

act\_id int ,

mov\_id int ,

role varchar(30),

foreign key(act\_id) references actor(act\_id),

foreign key(mov\_id) references movie(mov\_id)

);

drop table movie\_cast;

desc movie\_cast;

create table director(

dir\_id int primary key ,

dir\_fname varchar(20),

dir\_lname varchar(20)

);

drop table director;

desc director;

create table genres(

gen\_id int primary key,

gen\_title varchar(20)

);

drop table genres;

desc genres;

create table movie(

mov\_id int primary key ,

mov\_title varchar(50),

mov\_year int,

mov\_time int,

mov\_lang varchar(50),

mov\_dt\_rel date,

mov\_rel\_country varchar(5)

);

drop table movie;

desc movie;

create table movie\_genres(

mov\_id int,

gen\_id int,

foreign key(gen\_id) references genres(gen\_id),

foreign key(mov\_id) references movie(mov\_id)

);

drop table movie\_genres;

desc movie\_genres;

create table movie\_direction(

dir\_id int,

mov\_id int,

foreign key(dir\_id) references director(dir\_id),

foreign key(mov\_id) references movie(mov\_id)

);

drop table movie\_direction;

desc movie\_direction;

create table reviewer(

rev\_id int primary key,

rev\_name char(30)

);

drop table reviewer;

desc reviewer;

create table rating(

mov\_id int,

rev\_id int,

rev\_stars int,

num\_o\_ratings int,

foreign key(rev\_id) references reviewer(rev\_id),

foreign key(mov\_id) references movie(mov\_id)

);

drop table rating;

desc rating;

show tables;

use project\_movie\_data;

show tables;

describe actor;

insert into actor(act\_id,act\_fname,act\_lname,act\_gender)

values(101,'James','Stewart','M'),(102,'Deborah','Kerr','F'),(103,'Peter','Otoole','M'),(104,'Robert','DeNiro','M'),

(105,'F.Murray','Abraham','M'),(106,'Harrison','Ford','M'),(107,'Nicole','Kidman','F'),(108,'Stephen','Baldwin','M'),

(109,'Jack','Nicholson','M'),(110,'Mark','Wahlberg','M'),(111,'Woody','Allen','M'),(112,'Claire','Danes','F'),

(113,'Tim','Robbins','M'),(114,'jon','Voight','M'),(115,'Kevin','Spacey','M'),(116,'Kate','Winslet','F'),(117,'Robin','Robbins','M'),

(118,'Ewan','McGregor','M'),(119,'Christian','Bale','M'),(120,'Maggie','Gyllenhaal','F'),(121,'Dev','Patel','M'),(122,'Sigourney','Weaver','F'),

(123,'David','Aston','M'),(124,'Ali','Astin','F');

select \* from actor;

desc genres;

insert into genres(gen\_id,gen\_title)

values(1001,'Action'),(1002,'Adventure'),(1003,'Animation'),(1004,'Biography'),

(1005,'Comedy'),(1006,'Crime'),(1007,'Drama'),(1008,'Horror'),

(1009,'Music'),(1010,'Mystery'),(1011,'Romance'),(1012,'Thriller'),

(1013,'War');

select \* from genres;

desc director;

insert into director(dir\_id,dir\_fname,dir\_lname)

values(201,'Alfred','Hitchock'),(202,'Jack','Clayton'),(203,'David','Lean'),(204,'Michael','Cimino'),

(205,'Milos','Forman'),(206,'Ridley','Scott'),(207,'Stanley','Kubrik'),(208,'Bryan','singer'),

(209,'Roman','Polanski'),(210,'Paul','Thomas Anderson'),(211,'Woody','Allen'),(212,'Hayao','Miyazaki'),

(213,'Frank','Darabont'),(214,'Sam','Mendes'),(215,'james','cameron'),(216,'Gus','Van Sant'),

(217,'John','Boorman'),(218,'Danny','Boyle'),(219,'Christopher','Nolan'),(220,'Rechard','Kelly'),

(221,'Kevin','Spacey'),(222,'Andrei','Tarkovsky'),(223,'Peter','Jackson')

;

select \* from director;

desc movie;

insert into movie(mov\_id,mov\_title,mov\_year,mov\_time,mov\_lang,mov\_dt\_rel,mov\_rel\_country)

values(901,'Vertigo',1958,128,'English','1958-08-24','UK'),(902,'The Innocents',1961,100,'English','1962-02-19','SW'),

(903,'Lawrence of Arabia',1962,216,'English','1962-12-11','UK'),(904,'The Deer Hunter',1978,183,'English','1979-03-08','UK'),

(905,'Amadeus',1984,160,'English','1985-01-07','UK'),(906,'Blade Runner',1982,117,'English','1982-09-09','UK'),

(907,'Eyes Wide Shut',1999,159,'English',null,'UK'),(908,'The Usual Suspects',1995,106,'English','1995-08-09','UK'),

(909,'Chinatown',1974,130,'English','1974-08-09','UK'),(910,'Boogie Nights',1997,155,'English','1998-02-16','UK'),(911,'Annie Hall',1977,93,'English','1977-04-20','USA'),

(912,'Princess Mononoke',1997,134,'Japanese','2001-10-19','UK'),(913,'The Shawshank Redemption','1994','142','English',' 1995-02-17','UK'),(914,'American Beauty',1999,122,'English',null,'UK'),

(915,'Titanic',1997,194,'English','1998-01-23','UK'),(916,'Good Will Hunting',1997,126,'English','1998-06-03','UK'),(917,'Deliverance',1972,109,'English','1982-10-05','UK'),

(918,'Trainspotting',1996,94,'English','1996-02-23','UK'),(919,'The Prestige',2006,130,'English','2006-11-10','UK'),(920,'Donnie Darko',2001,113,'English',null,'UK'),

(921,'Slumdog Millionaire',2008,120,'English','2009-01-09','UK'),(922,'Aliens',1986,137,'English','1986-08-29','UK'),(923,'Beyond the Sea',2004,118,'English','2004-11-26','UK'),

(924,'Avatar',2009,162,'English','2009-12-17','UK'),(926,'Seven Samurai',1954,207,'Japanese','1954-04-26','JP'),(927,'Spirited Away',2001,125,'Japanese','2003-09-12','UK'),

(928,'Back to the Future',1985,116,'English','1985-12-04','UK'),(925,'Braveheart',1995,178,'English','1995-09-08','UK');

select \* from movie;

desc reviewer;

insert into reviewer(rev\_id,rev\_name)

values(9001,'Righty sock'),(9002,'Jack Malven'),(9003,'Flagrant Malvern'),(9004,'Alec Shaw'),

(9005,null),(9006,'Victor Woeltjen'),(9007,'Simon Wright'),(9008,'Neal Wruck'),

(9009,'Paul Monks'),(9010,'Mike Salvati'),(9011,null),(9012,'Weasly S.Walker'),

(9013,'Sasha Goldshtein'),(9014,'Josh Cates'),(9015,'Krug Stillo'),(9016,'Scott LeBrun'),

(9017,'Hannah Steele'),(9018,'Vincent Cadena'),(9019,'Brandt Sponseller'),(9020,'Richard Adams');

select \* from reviewer;

desc movie\_direction;

insert into movie\_direction(dir\_id,mov\_id)

values(201,901),(202,902),(203,903),

(204,904),(205,905),(206,906),

(207,907),(208,908),(209,909),

(210,910),(211,911),(212,912),

(213,913),(214,914),(215,915),

(216,916),(217,917),(218,918),

(219,919),(220,920),(218,921),

(215,922),(221,923);

select \* from movie\_direction;

desc movie\_cast;

insert into movie\_cast(act\_id,mov\_id,role)

values(101,901,'John Scottie Ferguson'),(102,902,'Miss Giddens'),(103,903,'T.F.Lawrence'),(104,904,'Michael'),

(105,905,'Antonia Salieri'),(106,906,'Rick Deckard'),(107,907,'Alice Harford'),(108,908,'McManus'),

(110,910,'Eddie Adams'),(111,911,'Alvy Singer'),(112,912,'San'),(113,913,'Andy Dulresne'),(114,914,'Lester Burnham'),

(115,915,'Rose DeWitt Bukater'),(116,916,'Sean Maguire'),(117,917,'Ed'),(118,918,'Renton'),(120,920,'Elizabeth Darko'),

(121,921,'Older Jamal'),(122,922,'Ripley'),(114,923,'Bobby Darin'),(109,909,'J.J.Gittes'),(119,919,'Alfred Borden');

desc movie\_genres;

select \* from movie\_genres;

insert into movie\_genres(mov\_id,gen\_id)

values(922,1001),(917,1002),(903,1002),(912,1003),(911,1005),(908,1006),(913,1006),

(926,1007),(928,1007),(918,1007),(921,1007),(902,1008),(923,1009),(907,1010),

(927,1010),(901,1010),(914,1011),(906,1012),(904,1013);

desc rating;

select \* from rating;

insert into rating(mov\_id,rev\_id,rev\_stars,num\_o\_ratings)

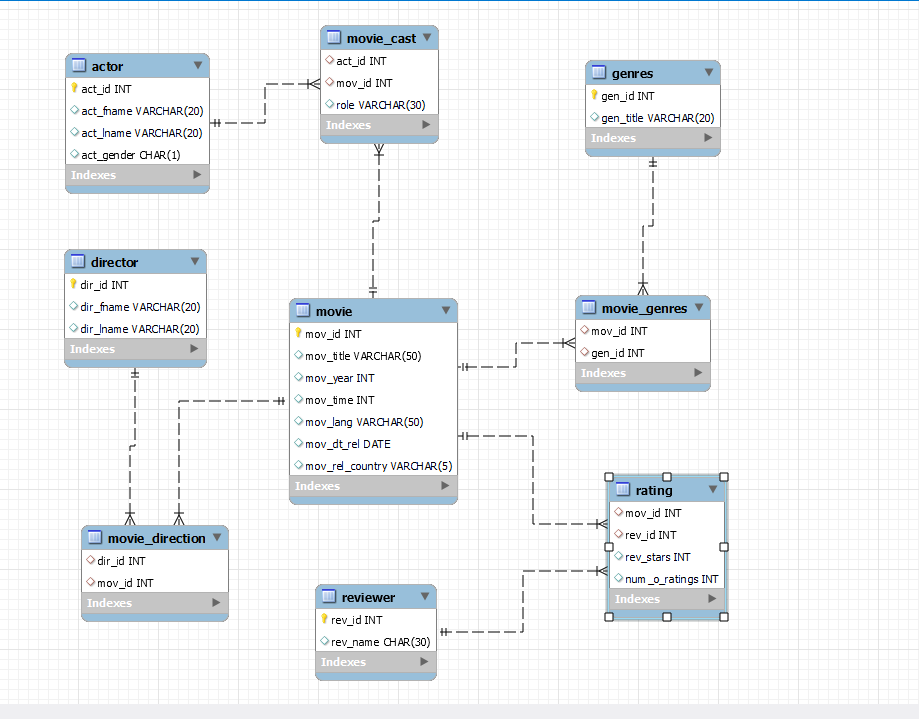
values(901,9001,8.4,263575),(902,9002,7.9,20207),(903,9003,8.3,202778),(906,9005,8.2,484746),

(924,9006,7.3,null),(908,9007,8.6,779489),(909,9008,null,227235),(910,9009,3,195961),

(911,9010,8.1,203875),(912,9011,8.4,null),(914,9013,7,862618),(915,9001,7.7,830095),

(916,9014,4,642132),(925,9015,7.7,81328),(918,9016,null,580301),(920,9017,8.1,609451),

(921,9018,8,667758),(922,9019,8.4,511613),(923,9020,6.7,13091);



use project\_movie\_data;

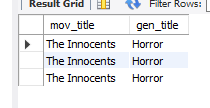
-- 3.Write a query in SQL to list the Horror movies?

select mov\_title,gen\_title from movie

inner join movie\_genres on movie.mov\_id=movie\_genres.mov\_id

inner join genres on genres.gen\_id=movie\_genres.gen\_id

where genres.gen\_title='Horror';

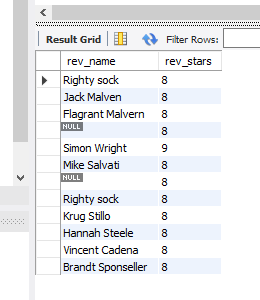


-- 4.Write a query in SQL to find the name of all reviewers who have rated 8 or more stars?

select rev\_name,rev\_stars from reviewer

inner join rating on reviewer.rev\_id=rating.rev\_id

where rev\_stars>=8;



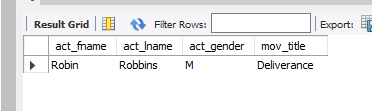
-- 5.Write a query in SQL to list all the information of the actors who played a role in the movie ‘Deliverance’

select act\_fname,act\_lname,act\_gender,mov\_title from actor

inner join movie\_cast on actor.act\_id=movie\_cast.act\_id

inner join movie on movie\_cast.mov\_id=movie.mov\_id

where movie.mov\_title='Deliverance';



-- 6.Write a query in SQL to find the name of the director (first and last names) who directed a movie that casted a role for ‘Eyes Wide Shut’. (using subquery)

select dir\_fname,dir\_lname from director

natural join movie\_direction

natural join movie\_cast

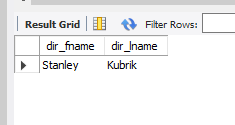
where act\_id in

(select act\_id from movie

natural join movie\_cast

natural join actor

where role is not null and mov\_title='Eyes Wide Shut');



-- 7.Write a query in SQL to find the movie title, year, date of release, director and actor for those movies which reviewer is ‘Neal Wruck’

select mov\_title,mov\_year,mov\_dt\_rel, concat(director.dir\_fname,' ',director.dir\_lname) as director\_name, concat(actor.act\_fname,' ',actor.act\_lname) from movie

inner join movie\_cast on movie.mov\_id=movie\_cast.mov\_id

inner join actor on movie\_cast.act\_id=actor.act\_id

inner join movie\_direction on movie.mov\_id=movie\_direction.mov\_id

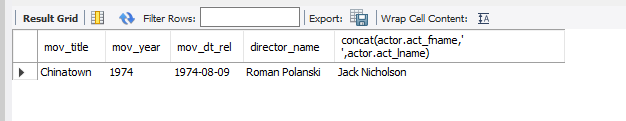
inner join director on movie\_direction.dir\_id=director.dir\_id

where movie.mov\_id in

(select mov\_id from reviewer

inner join rating on reviewer.rev\_id=rating.rev\_id

where rev\_name='Neal Wruck');



-- 8 Write a query in SQL to find all the years which produced at least one movie and that received a rating of more than 4 stars.

select mov\_title,rev\_stars,mov\_year from movie

inner join rating on movie.mov\_id=rating.mov\_id

where rev\_stars>=4;



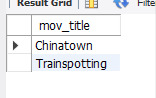
-- 9 Write a query in SQL to find the name of all movies who have rated their ratings with a NULL value

select mov\_title,rev\_stars from movie

inner join rating on movie.mov\_id=rating.mov\_id

where rating.rev\_stars=null;

select \* from rating;



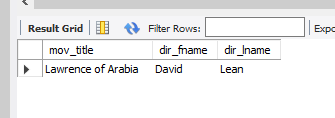
-- 10 Write a query in SQL to find the name of movies who were directed by ‘David’

select mov\_title,dir\_fname,dir\_lname from movie

inner join movie\_direction on movie.mov\_id=movie\_direction.mov\_id

inner join director on movie\_direction.dir\_id=director.dir\_id

where director.dir\_fname='David' or director.dir\_lname='David';



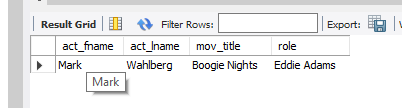
-- 11 Write a query in SQL to list the first and last names of all the actors who were cast in the movie ‘Boogie Nights’, and the roles they played in that production.

select act\_fname,act\_lname,mov\_title,role from actor

inner join movie\_cast on actor.act\_id=movie\_cast.act\_id

inner join movie on movie\_cast.mov\_id=movie.mov\_id

where movie.mov\_title='Boogie Nights';



-- 12 Find the name of the actor who have worked in more than one movie.

select act\_fname,act\_lname from actor

where act\_id in (select act\_id from movie\_cast group by act\_id

having count(act\_id)>1);

