**Submitted By,**

**REEMA JAMES-211479.**

1. Create Database project\_movie\_data and deploy table data according to ER diagram.

create database project\_movie\_data;

use project\_movie\_data;

create table actor (act\_id int not null,act\_fname char(20),act\_lname char(20),act\_gender char(1),primary key (act\_id));

create table director (dir\_id int not null,dir\_fname varchar(20),dir\_lname varchar(20),primary key(dir\_id));

create table movie (mov\_id int not null,mov\_title varchar(50),mov\_year int not null,mov\_time int not null,mov\_lang varchar(50),mov\_dt\_rel date,mov\_rel\_country varchar(5),primary key (mov\_id));

create table reviewer (rev\_id int not null,rev\_name varchar(30),primary key (rev\_id));

create table genres(gen\_id int not null,gen\_title varchar(20),primary key(gen\_id));

create table movie\_cast (act\_id int not null, mov\_id int not null,role varchar(20),foreign key(act\_id) references actor(act\_id),foreign key(mov\_id) references movie (mov\_id));

create table movie\_direction (dir\_id int not null,mov\_id int not null,foreign key(dir\_id) references director (dir\_id),foreign key(mov\_id) references movie (mov\_id));

create table movie\_genres (mov\_id int not null,gen\_id int not null,foreign key (mov\_id) references movie(mov\_id),foreign key (gen\_id) references genres (gen\_id));

create table rating (mov\_id int not null,rev\_id int not null,rev\_stars int,num\_o\_rating int ,foreign key (mov\_id) references movie (mov\_id),foreign key(rev\_id) references reviewer (rev\_id));

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2. Create 9 tables which are presented in ER model and load the data with their foreign key and primary key values.

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','De Niro','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,'Clarie','Danes','F'),(113,'Tim','Robbins','M'),

(114,'Kevin','Spacey','M'),(115,'Kate','Winslet','M'),(116,'Robin','Williams','M'),(117,'Jon','Voight','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');

insert into director (dir\_id, dir\_fname, dir\_lname)values (201, 'Alfred', 'Hitchcock'),(202, 'Jack', 'Clayton'),(203, 'David', 'Lean'),(204, 'Michael', 'Cimino'),(205, 'Milos', 'Forman'),(206, 'Ridley', 'Scott'),

(207, 'Stanley', 'Kubrick'),(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, 'Christoph', 'Nolan'),(220, 'Richard', 'Kelly'),(221, 'Kevin', 'Spacey'),(222, 'Andrei','Tarkovsky'),(223, 'Peter', 'Jackson');

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');

insert into movie\_cast (act\_id, mov\_id, role) values(101, 901, 'John Scottie Fergus'),(102, 902, 'Miss Giddens'),(103, 903, 'T.E. Lawrence'),(104, 904, 'Michael'),(105, 905, 'Antonio 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 Dufresne'),(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');

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 ', '1995-08-25', ' 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 Redem', 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'),

(925, 'Braveheart', 1995, 178, ' English ', '1995-09-08', ' 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');

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);

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, 1010),(906, 1012),(904, 1013);

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

(901, 9001, '8', 263575),(902, 9002, '8', 20207),(903, 9003, '8', 202778),(906, 9005, '8', 484746),(924, 9006, '7',null),(908, 9007, '9', 779489),

(909, 9008,null, 227235),(910, 9009, '3', 195961),(911, 9010, '8', 203875),(912, 9011, '8',null),(914, 9013, '8', 862618),(916, 9014, '4', 642132),

(925, 9015, '8', 81328),(918, 9016,null, 580301),(920, 9017, '8', 609451),(921, 9018, '8', 667758),(922, 9019, '8', 511613),(923, 9020, '7', 13091);

insert into reviewer(rev\_id,rev\_name)values(9001,'Righty Sock'),(9002,'Jack Malvern'),(9003,'Flagrant Baronessa'),

(9005,null),(9006,'Alec Shaw'),(9007,'Simon Wright'),(9008,'Neal Wruck'),(9009,'Paul Monks'),(9010,'Mike Salvati'),(9011,null),

(9012,'Wesley 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');

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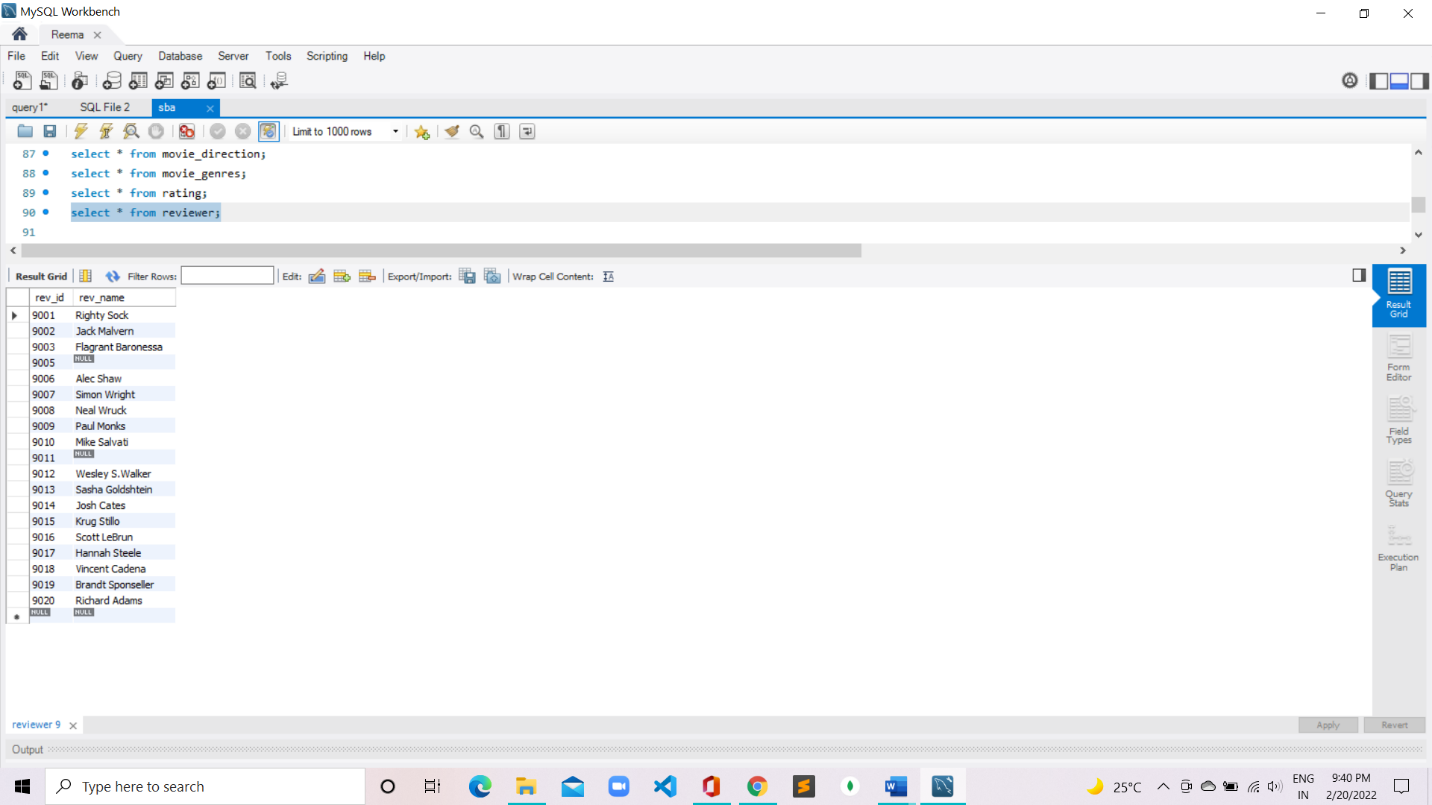
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3. Write a query in SQL to list the Horror movies?

select mov\_title from movie where mov\_id in (select mov\_id from movie\_genres where gen\_id in(select gen\_id from genres where gen\_title="Horror"));

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

select reviewer.rev\_name

from reviewer, rating

where rating.rev\_id = reviewer.rev\_id

and rating.rev\_stars>=8

and reviewer.rev\_name is not null;

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

select \* from actor

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

where mov\_id in (select mov\_id from movie

where mov\_title='Deliverance'

));

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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

where dir\_id in (

select dir\_id

from movie\_direction

where mov\_id in(

select mov\_id

from movie\_cast where role = any (

select role

from movie\_cast

where mov\_id in (

select mov\_id

from movie

where mov\_title='Eyes Wide Shut'))));

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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, dir\_fname, dir\_lname, act\_fname, act\_lname

from movie a, movie\_direction b, director c, rating d, reviewer e, actor f, movie\_cast g

where a.mov\_id=b.mov\_id and b.dir\_id=c.dir\_id and a.mov\_id=d.mov\_id and d.rev\_id=e.rev\_id and a.mov\_id=g.mov\_id and g.act\_id=f.act\_id and e.rev\_name ="Neal Wruck";

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