

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));

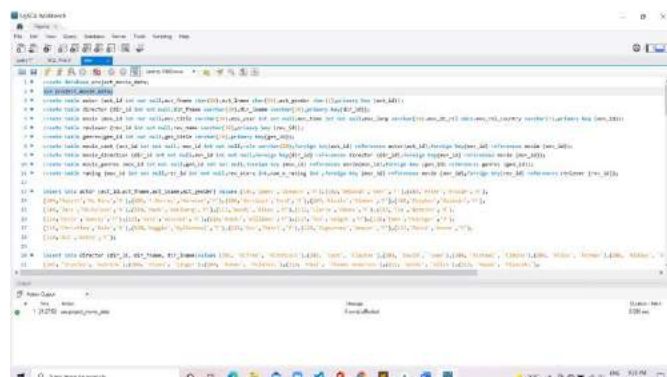
create table genres(gen_id int not null,gen_title varchar(20),primary key(gen_id));

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));



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','Kidma
n','F'),(108,'Stephen','Baldwin','M'),
(109,'Jack','Nicholson','M'),(110,'Mark','Wahlberg','M'),(111,'Woody','Allen','M'),(112,'Cl
arie','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,'Sigo
urney','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)v
alues

(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),

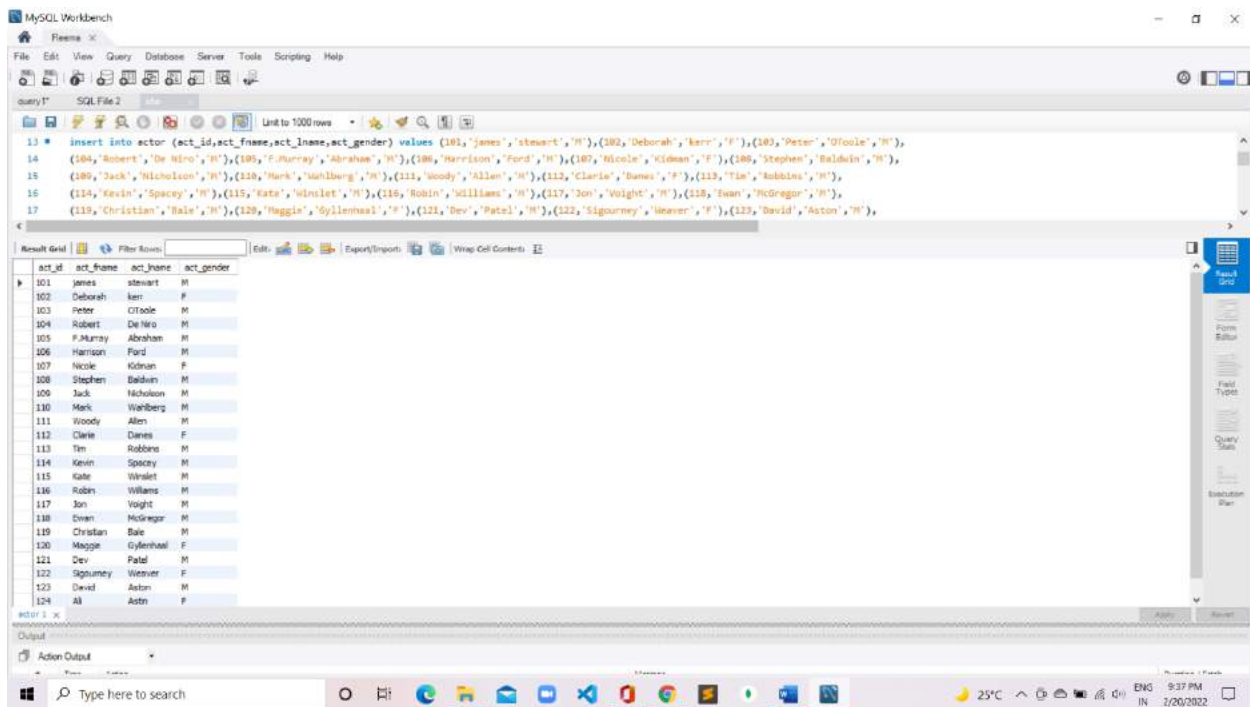
(925, 9015, '8', 81328), (918, 9016, null, 580301), (920, 9017, '8', 609451), (921, 9018, '8', 667758), (922, 9019, '8', 511613), (923, 9020, '7', 13091);

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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File Edit View Query Database Server Tools Scripting Help

query1 SQL File 2

```
90 (9017,'Hannah Steele'),(9018,'Vincent Cadene'),(9019,'Brandt Sponseller'),(9020,'Richard Adams');
91
92 select * from actor;
93 select * from director;
94 select * from genres;
```

Result Grid

dr_id	dr_fname	dr_name
201	Alfred	Hitchcock
202	Jack	Owron
203	David	Lean
204	Michael	Cineo
205	Miles	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	Sorman
218	Jimmy	Boyle
219	Christoph	Nolan
220	Richard	Kelly
221	Kevin	Spacey
222	Andrei	Tarkovsky
223	Peter	Jackson
9020		

Output

Action Output

Type here to search

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query1 SQL File 2

```
90 (9017,'Hannah Steele'),(9018,'Vincent Cadene'),(9019,'Brandt Sponseller'),(9020,'Richard Adams');
91
92 select * from actor;
93 select * from director;
94 select * from genres;
```

Result Grid

gen_id	gen_title
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
9020	

Output

Action Output

Type here to search

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query1* SQL File 2

```
84 select * from genres;
85 select * from movie_cast;
86 select * from movie;
87 select * from movie_direction;
88 select * from movie_genres;
```

Result Grid

act_id	mov_id	role
901	901	John Scottie Fergus
902	902	Max Golden
903	903	T.E. Lawrence
904	904	Michael
905	905	Antonio Soleri
906	906	Rick Deckard
907	907	Alice Harford
908	908	McManus
909	909	Bodie Adams
910	910	Alvy Singer
911	911	Sam
912	912	Andy Dufresne
913	913	Lester Burnham
914	914	Rose DeWitt Bukater
915	915	Sean Pogue
916	916	Ed
917	917	Renton
918	918	Elizabeth Darko
919	919	Older Jamal
920	920	Ripley
921	921	Bobby Darin
922	922	J.J. Gittes
923	923	Alfred Borden

movie_cast 4 x

Output

Action Output

Type here to search

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File Edit View Query Database Server Tools Scripting Help

query1* SQL File 2

```
84 select * from genres;
85 select * from movie_cast;
86 select * from movie;
87 select * from movie_direction;
88 select * from movie_genres;
```

Result Grid

mov_id	mov_title	mov_year	mov_time	mov_lang	mov_rt_rel	mov_rel_country
901	Vertigo	1958	128	English	1958-08-24	UK
902	The Innocents	1961	100	English	1962-02-19	SW
903	Lawrence of Arabia	1962	235	English	1962-12-11	UK
904	The Deer Hunter	1978	183	English	1979-03-08	UK
905	Anandus	1984	160	English	1985-01-07	UK
906	Blade Runner	1982	117	English	1982-09-09	UK
907	Eyes Wide Shut	1999	159	English		UK
908	The Usual Suspects	1995	106	English	1995-08-25	UK
909	Chinatown	1974	130	English	1974-08-08	UK
910	Boogie Nights	1997	135	English	1998-02-16	UK
911	Anner Hall	1977	93	English	1977-04-20	USA
912	Princess Mononoke	1997	134	Japanese	2001-10-19	UK
913	The Shawshank R...	1994	142	English	1995-02-17	UK
914	American Beauty	1999	122	English		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	Transporting	1996	94	English	1996-02-23	UK
919	The Prestige	2006	132	English	2006-11-10	UK
920	Donnie Darko	2001	113	English		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

movie 5 x

Output

Type here to search

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File Edit View Query Database Server Tools Scripting Help

query1* SQL File 2 View

```
84 select * from genres;
85 select * from movie_cast;
86 select * from movie;
87 select * from movie_direction;
88 select * from movie_genres;
```

Result Grid | Filter Rows: | Exports | Wrap Cell Contents

dir_id	mov_id
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

movie_direction 6 x | Read Only

Output

Type here to search

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File Edit View Query Database Server Tools Scripting Help

query1* SQL File 2 View

```
84 select * from genres;
85 select * from movie_cast;
86 select * from movie;
87 select * from movie_direction;
88 select * from movie_genres;
```

Result Grid | Filter Rows: | Exports | Wrap Cell Contents

mov_id	gen_id
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

movie_genres 7 x | Read Only

Output

Type here to search

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Reema x

File Edit View Query Database Server Tools Scripting Help

query1* SQL File 2 side

Limit to 1000 rows

```
87 select * from movie_direction;
88 select * from movie_genres;
89 select * from ratings;
90 select * from reviewer;
91
```

Result Grid

mov_id	rev_id	rev_star	num_n_rating
901	9001	8	263575
902	9002	8	20207
903	9003	8	20278
906	9005	8	484746
924	9006	7	0
908	9007	9	779489
909	9008	0	227235
910	9009	3	195961
911	9010	8	203875
912	9011	8	0
914	9013	8	862618
916	9014	4	642132
925	9015	8	81328
918	9016	0	580201
920	9017	8	609451
921	9018	8	667758
922	9019	8	513813
923	9020	7	13861

MySQL Workbench

Reema x

File Edit View Query Database Server Tools Scripting Help

query1* SQL File 2 side

Limit to 1000 rows

```
87 select * from movie_direction;
88 select * from movie_genres;
89 select * from ratings;
90 select * from reviewer;
91
```

Result Grid

rev_id	rev_name
9001	Righty Sodi
9002	Jack Malvern
9003	Flagrant Baronessa
9005	2008
9006	Alec Shaw
9007	Simon Wright
9008	Neal Vinicki
9009	Paul Morita
9010	Mike Salvati
9011	2008
9012	Wesley S. Walker
9013	Sasha Goldstein
9014	Josh Gates
9015	King Sills
9016	Scott Ledburn
9017	Hannah Steele
9018	Vincent Cadena
9019	Brandt Sponseller
9020	Richard Adams
2008	2008

reviewer 9 x

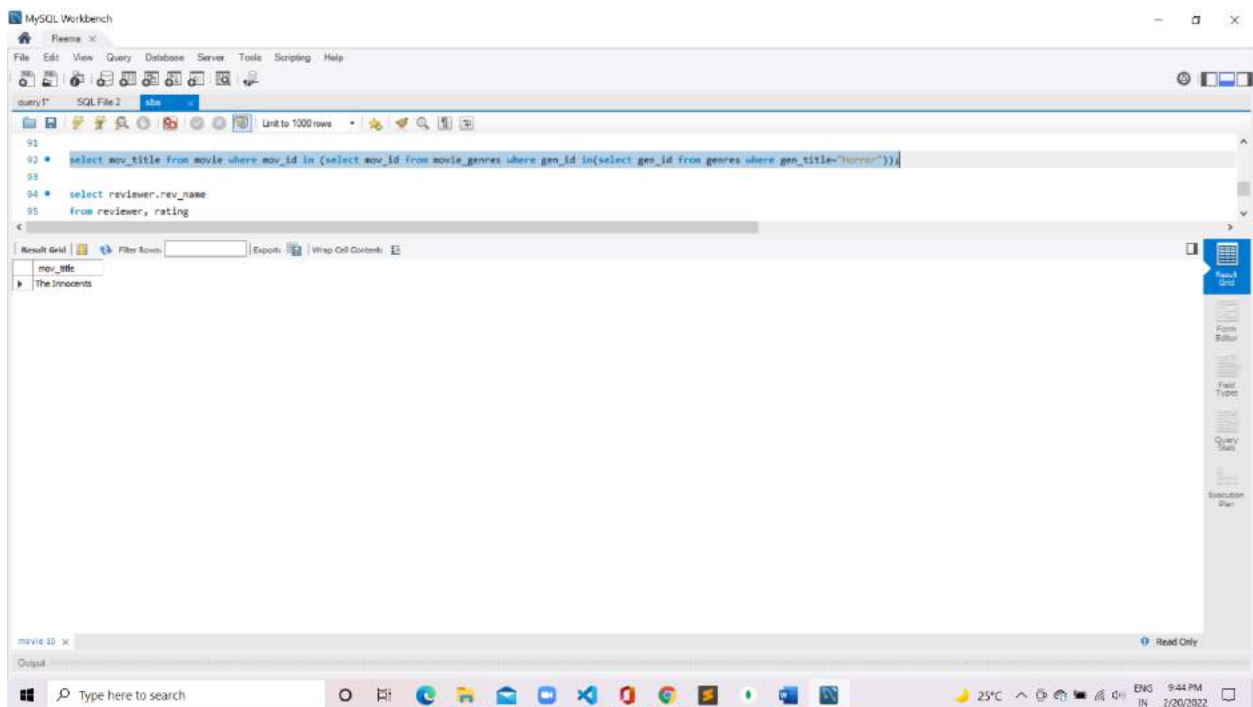
Output

Type here to search

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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"));
```



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

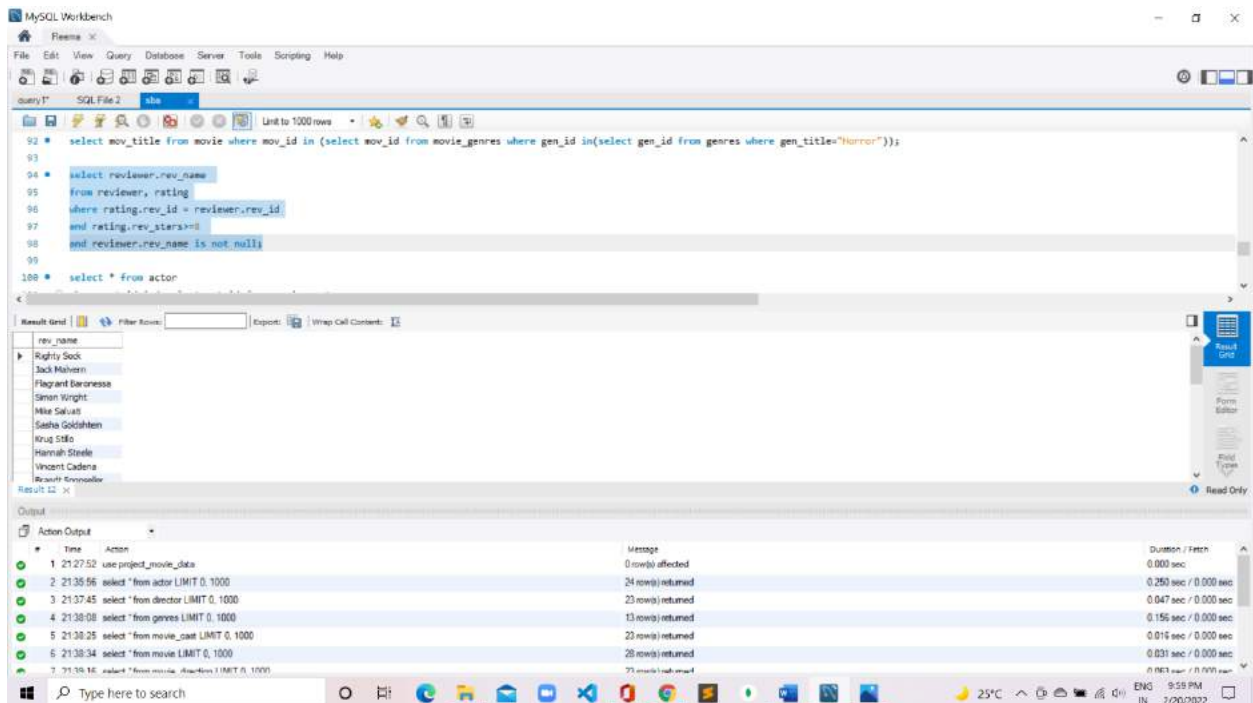
select reviewer.rev_name

from reviewer, rating

where rating.rev_id = reviewer.rev_id

and rating.rev_stars>=8

and reviewer.rev_name is not null;



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

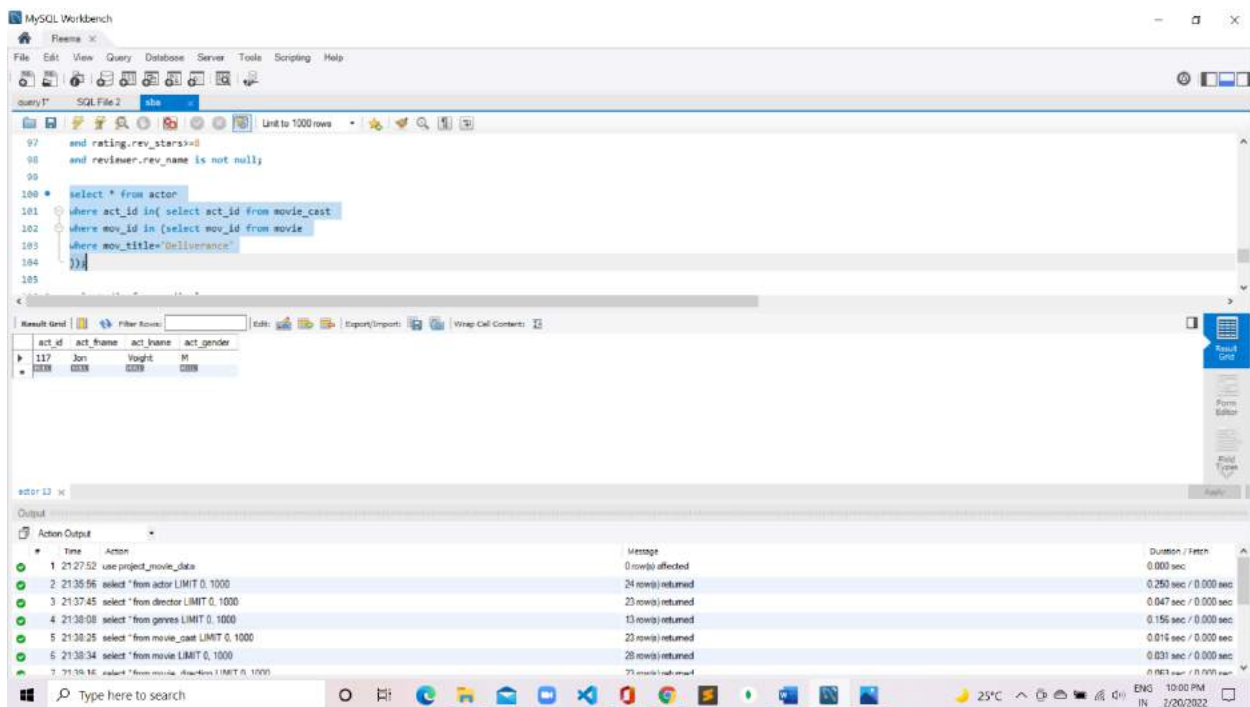
```
select * from actor
```

```
where act_id in( select act_id from movie_cast
```

```
where mov_id in (select mov_id from movie
```

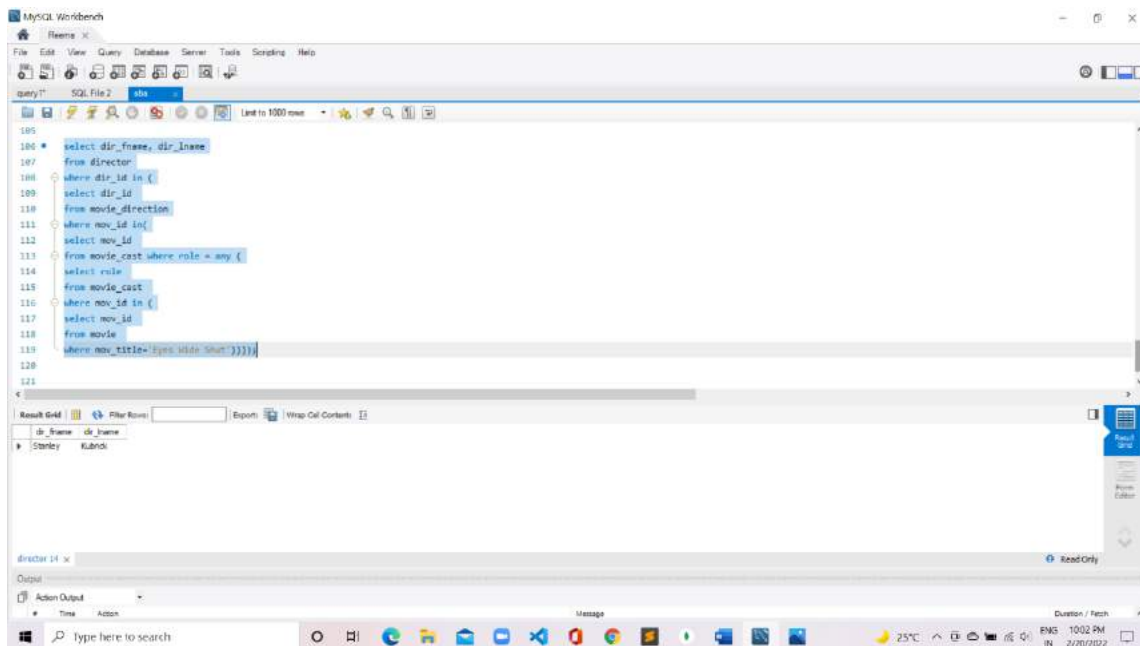
```
where mov_title='Deliverance'
```

```
));
```



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'))));
```



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";
```

