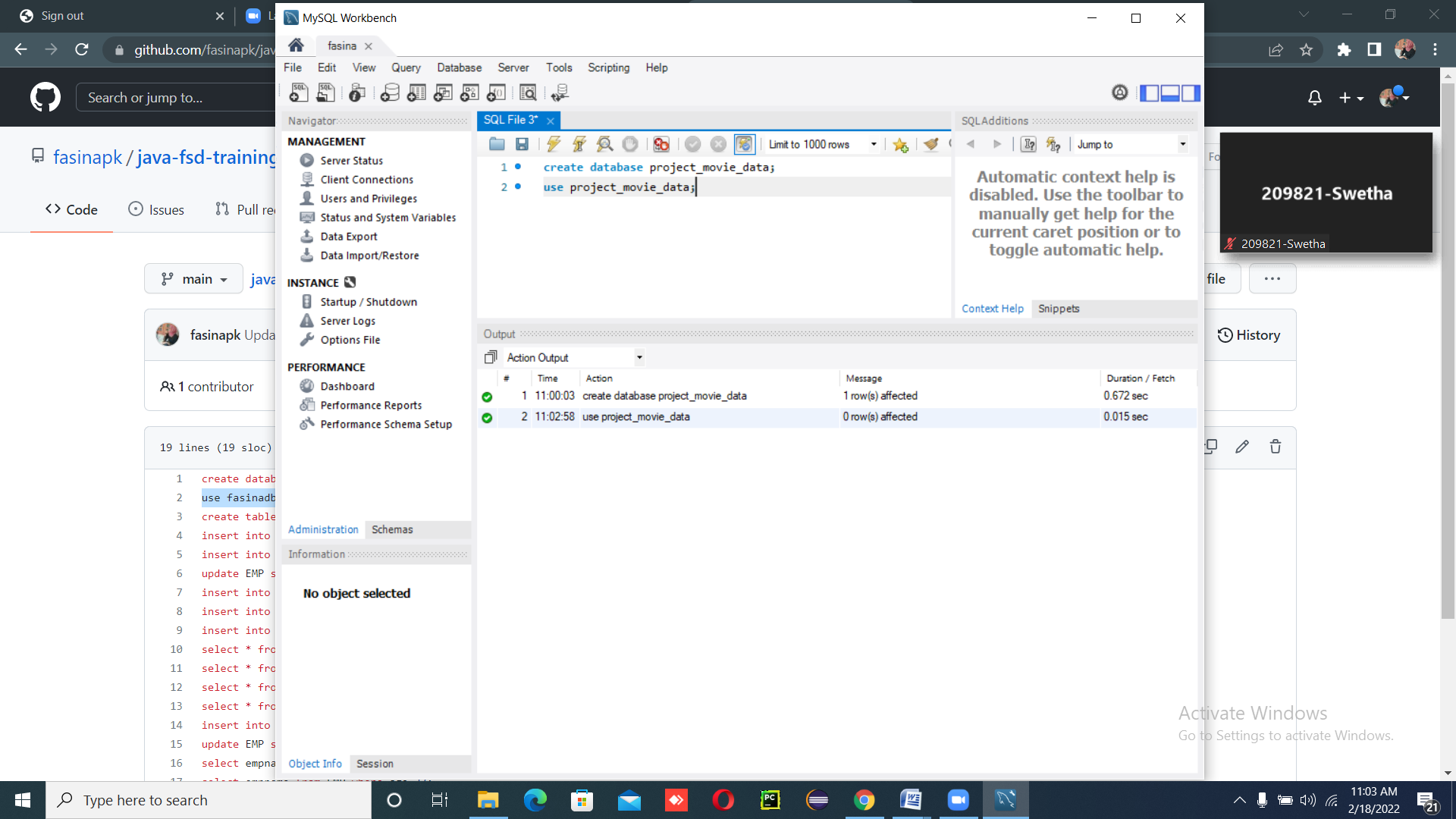
**Fasina P K – 211443**

**Section A**

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

create database project\_movie\_data;

use project\_movie\_data;



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

create table actor

(act\_id int not null,act\_fname varchar(20),

act\_lname varchar(20),

act\_gender varchar(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\_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\_cast

(act\_id int not null,

mov\_id int not null,

role varchar(30),

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

foreign key(act\_id)references actor(act\_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\_ratings int,

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

primary key(rev\_id));

insert into actor 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,'Claire','Danes','F'),

(113,'Tim','Robbins','M'),

(114,'Kevin','Spacey','M'),

(115,'Kate','Winslet','F'),

(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 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,'Jon','Boorman'),

(218,'Danny','Boyle'),

(219,'Christopher','Nolan'),

(220,'Richard','Kelly'),

(221,'Kevin','Spacey'),

(222,'Andrei','Tarkovsky'),

(223,'Peter','Jackson');

insert into genres 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 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 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,'English','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');

insert into movie\_cast values

(101,901,'John Scottie Ferguson'),

(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,'Andy Dufresne'),

(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\_direction 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 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);

insert into rating 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),

(915,9004,7.7,830095),

(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);

insert into reviewer values

(9001,'Right Sock'),

(9002,'Jack Malvern'),

(9003,'Flagrant Baronessa'),

(9004,'Alec Shaw'),

(9005,null),

(9006,'Victor Woeltjen'),

(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'),

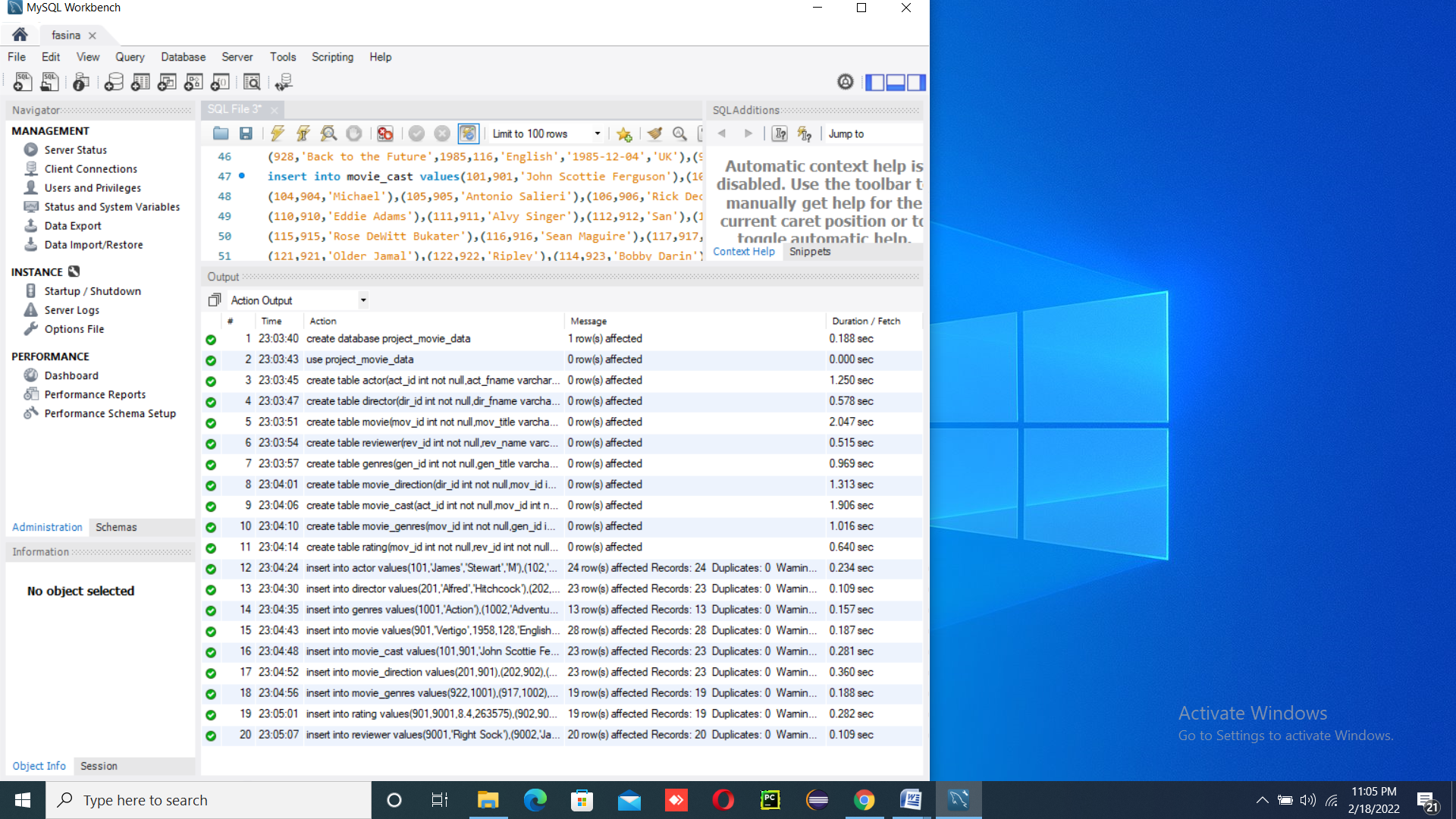
(9016,'Scott LeBrun'),

(9017,'Hannah Steele'),

(9018,'Vincent Cadena'),

(9019,'Brandt Sponseller'),

(9020,'Richard Adams');



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

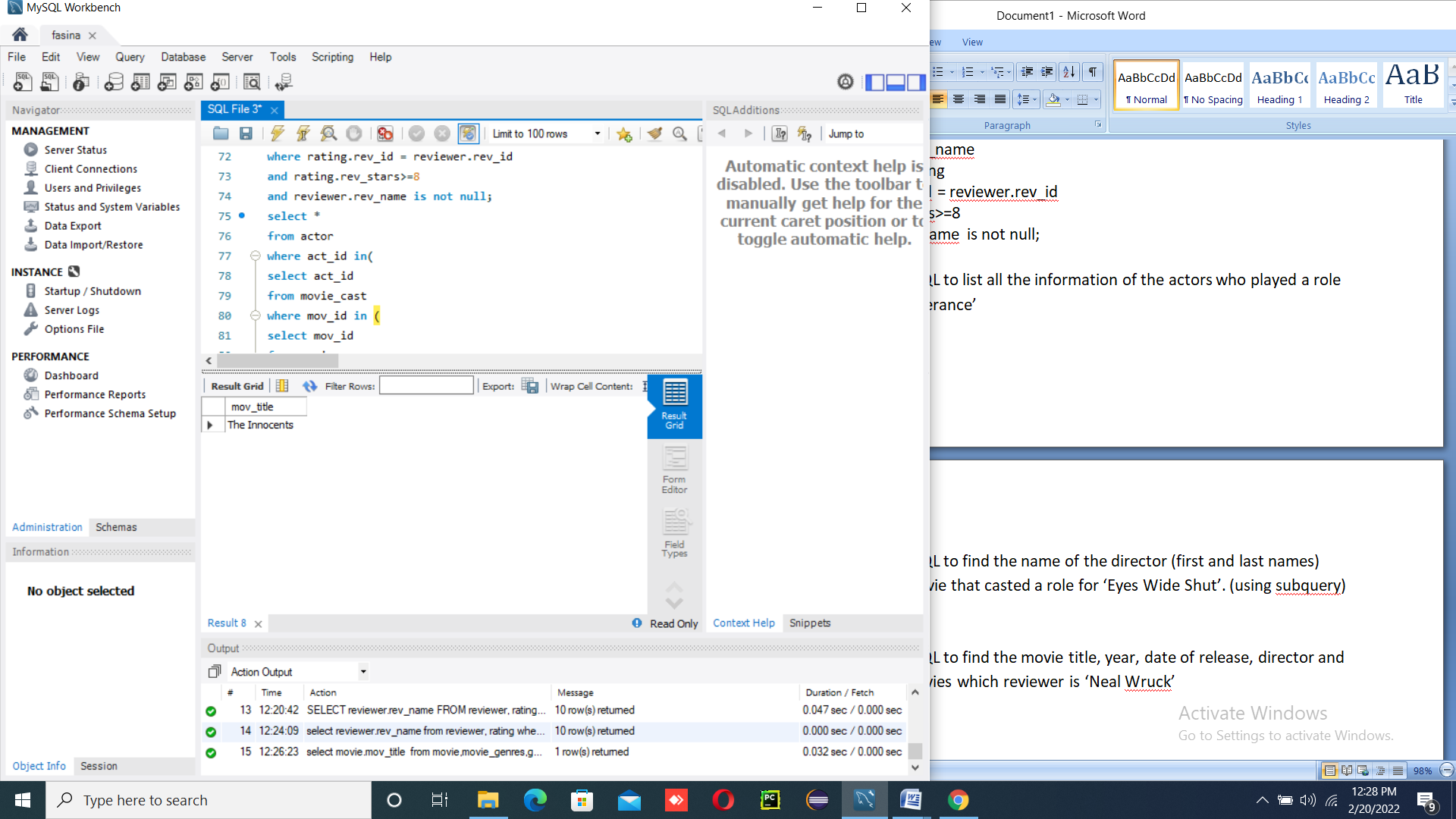
select movie.mov\_title

from movie,movie\_genres,genres

where movie.mov\_id=movie\_genres.mov\_id

and genres.gen\_id=movie\_genres.gen\_id

and genres.gen\_title="Horror";



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

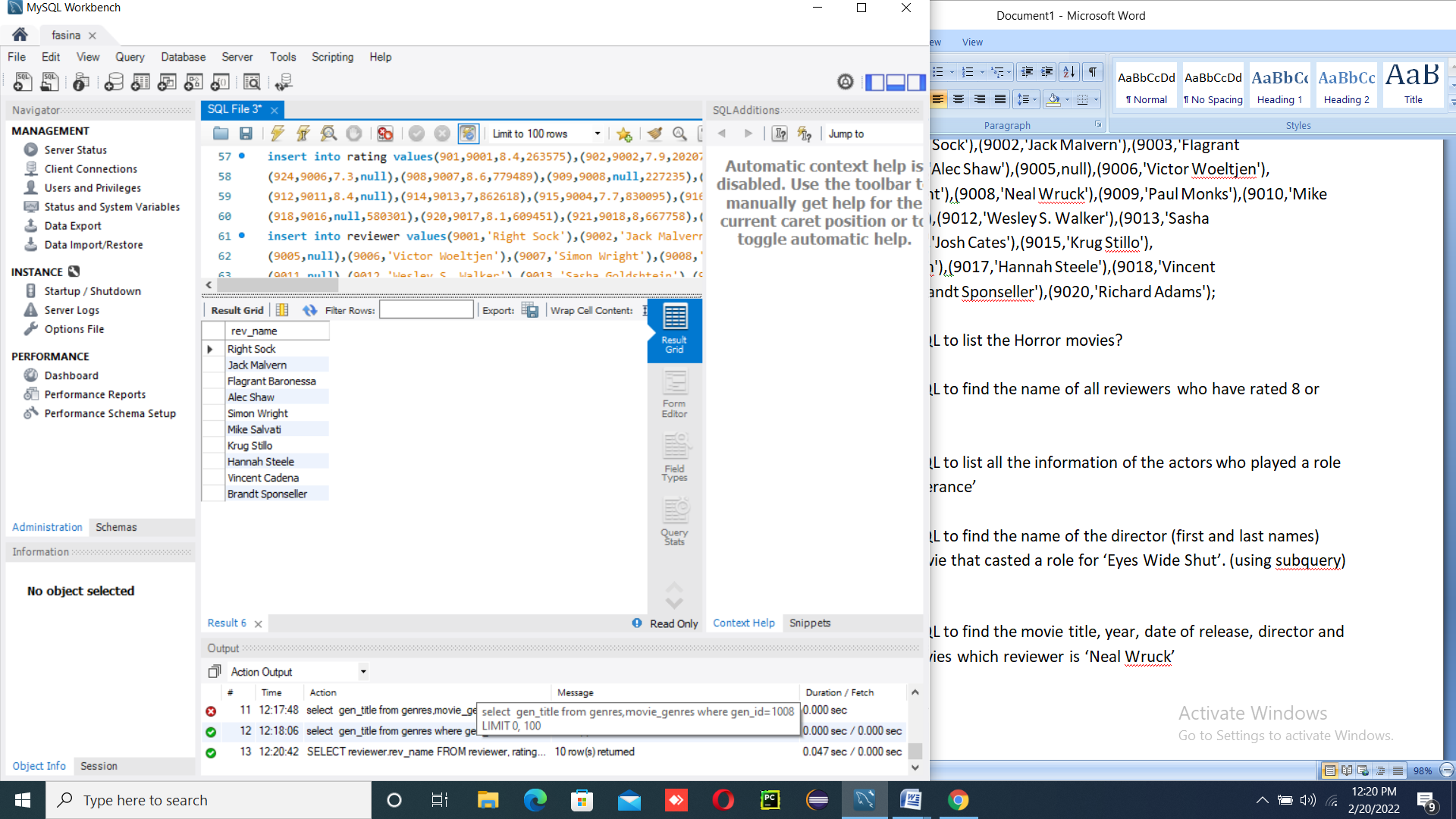
select reviewer.rev\_name

from reviewer, rating

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

and rating.rev\_stars>=8

and reviewer.rev\_name is not null;



1. 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

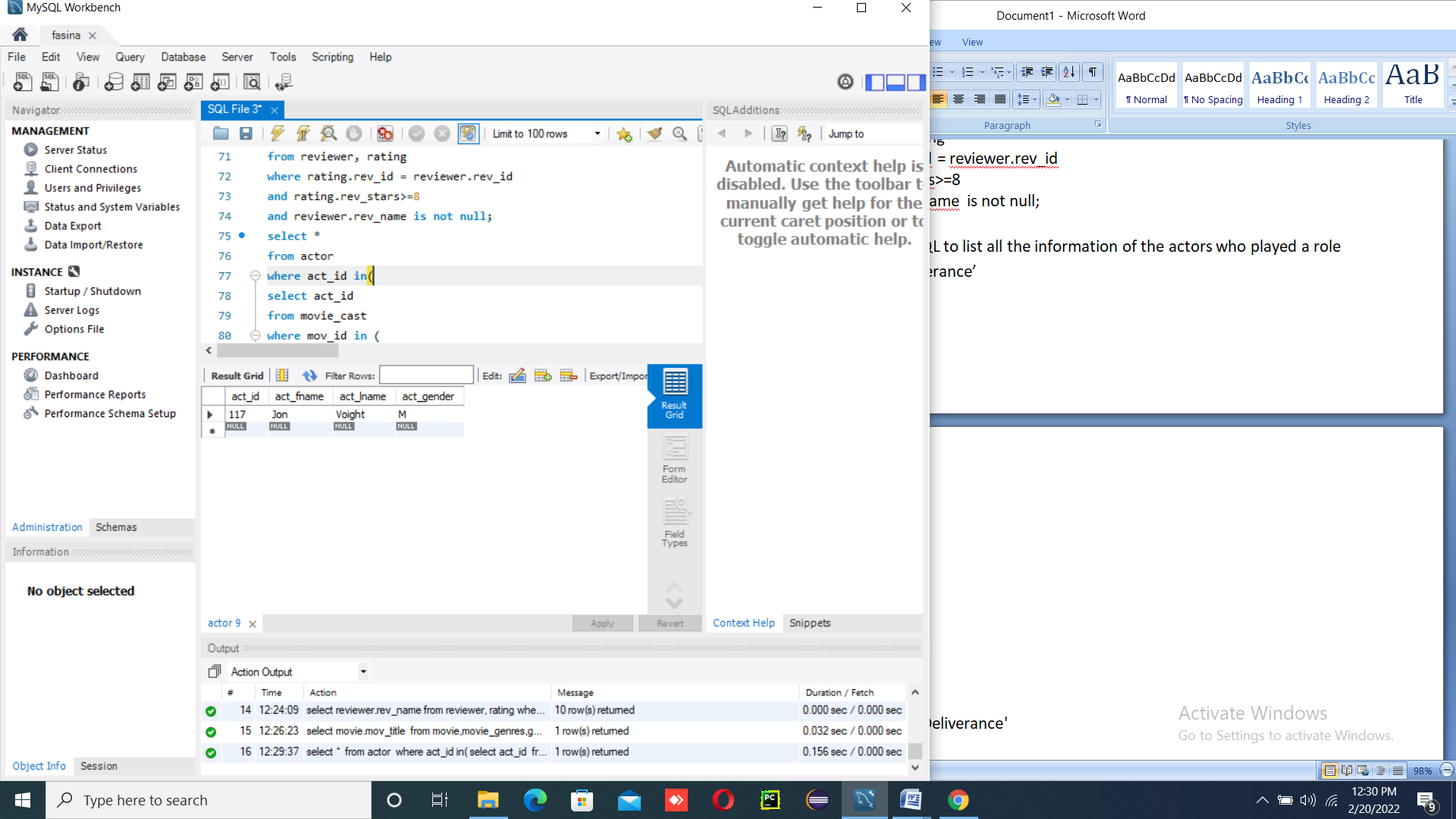
where mov\_id in (

select mov\_id

from movie

where mov\_title='Deliverance'

));



1. 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

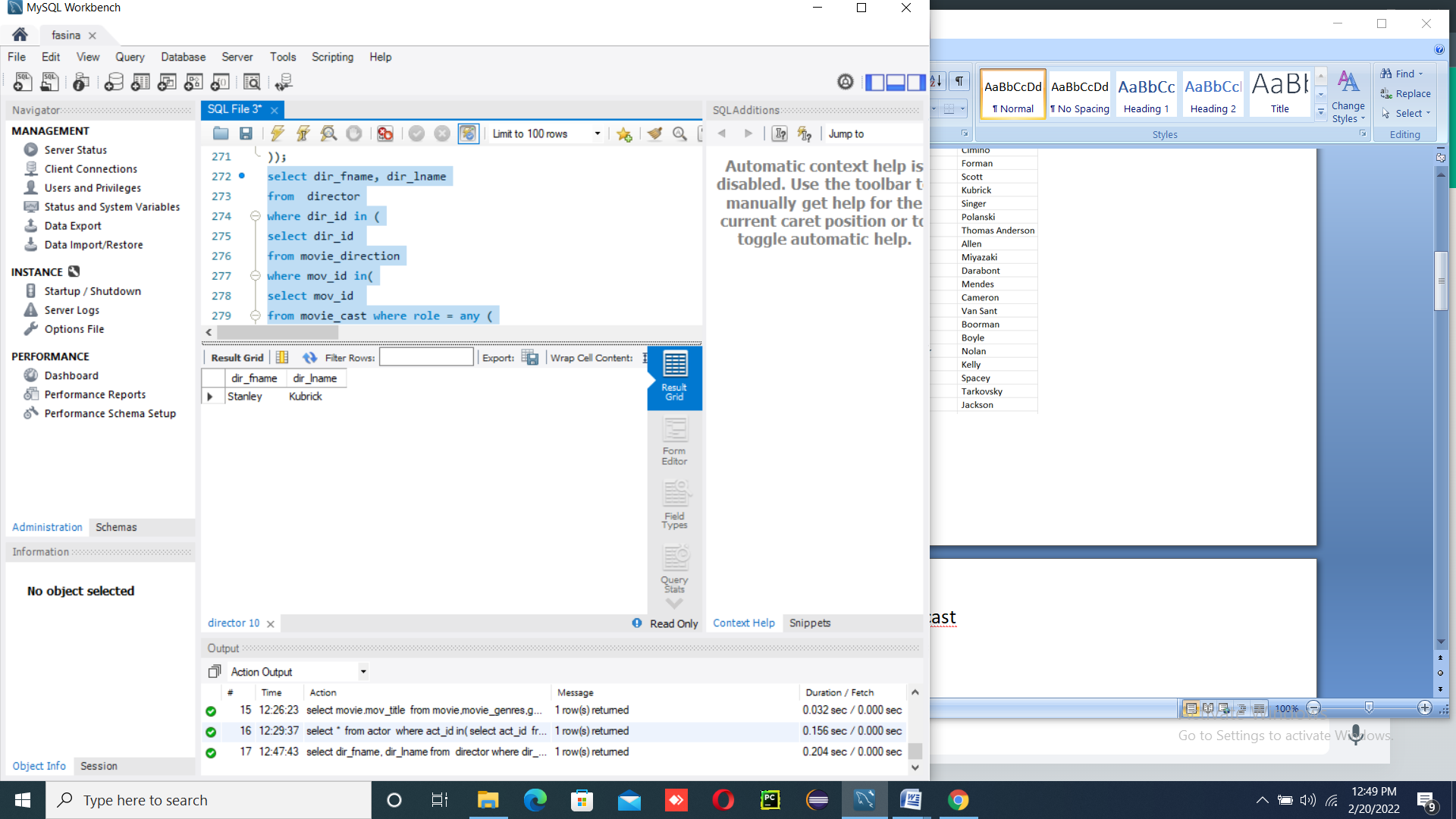
from movie\_cast

where mov\_id in (

select mov\_id

from movie

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



1. 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";

