**Program 9: Movie database**

**Consider the schema for Movie Database:**

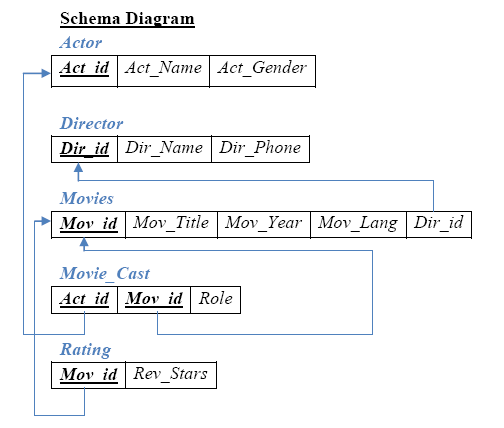
**ACTOR (Act\_id, Act\_Name, Act\_Gender)**

**DIRECTOR (Dir\_id, Dir\_Name, Dir\_Phone)**

**MOVIES (Mov\_id, Mov\_Title, Mov\_Year, Mov\_Lang, Dir\_id)**

**MOVIE\_CAST (Act\_id, Mov\_id, Role)**

**RATING (Mov\_id, Rev\_Stars)**



create database movie;

use movie;

create table actor(

act\_id int,

act\_name varchar(20),

act\_gender char(1),

primary key(act\_id));

desc actor;

create table director(

dir\_id int,

dir\_name varchar(20),

dir\_phone int(10),

primary key(dir\_id));

desc director;

alter table director

modify column dir\_phone bigint;

desc director;

create table movies(

mov\_id int,

mov\_title varchar(25),

mov\_year int,

mov\_lang varchar(12),

dir\_id int,

primary key(mov\_id),

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

desc movies;

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));

desc movie\_cast;

create table rating(

mov\_id int,

rev\_stars varchar(25),

primary key(mov\_id),

foreign key(mov\_id) references movies(mov\_id));

desc rating;

insert into actor values(301,'ANUSHKA','F');

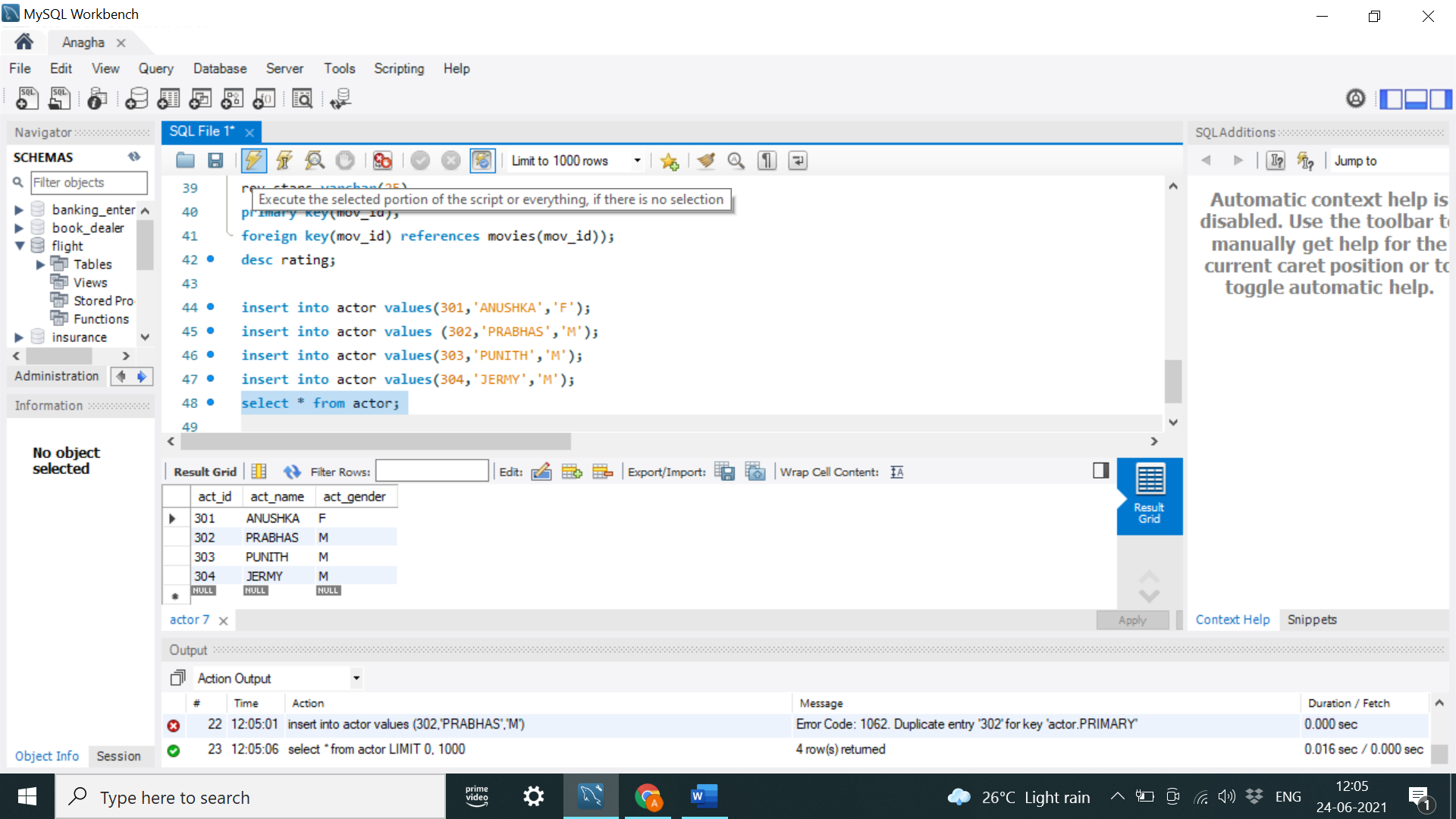
insert into actor values (302,'PRABHAS','M');

insert into actor values(303,'PUNITH','M');

insert into actor values(304,'JERMY','M');

commit;

select \* from actor;



insert into director values(60,'RAJAMOULI', 8751611001);

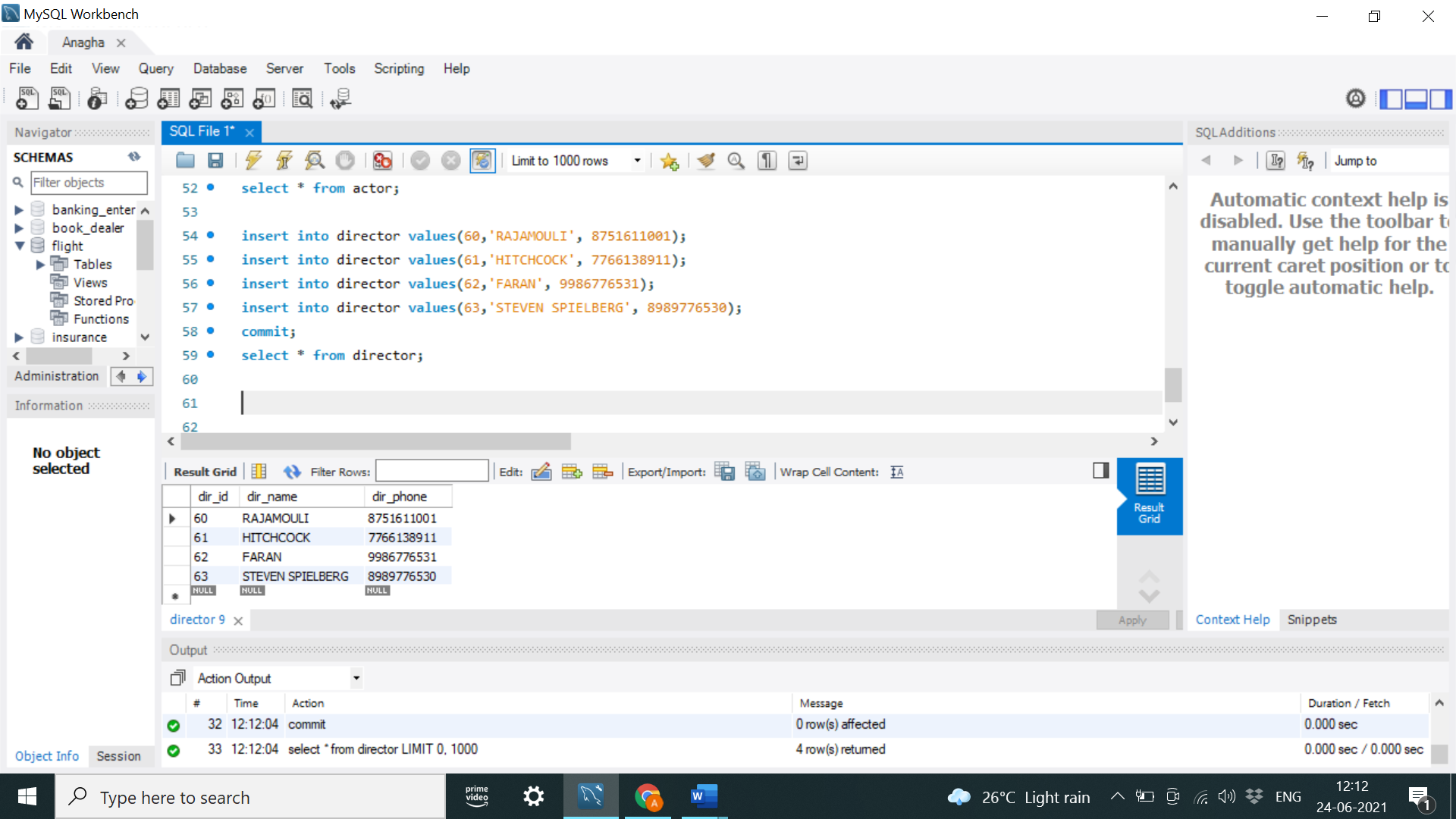
insert into director values(61,'HITCHCOCK', 7766138911);

insert into director values(62,'FARAN', 9986776531);

insert into director values(63,'STEVEN SPIELBERG', 8989776530);

commit;

select \* from director;



insert into movies values(1001,'BAHUBALI-2', 2017, 'TELAGU', 60);

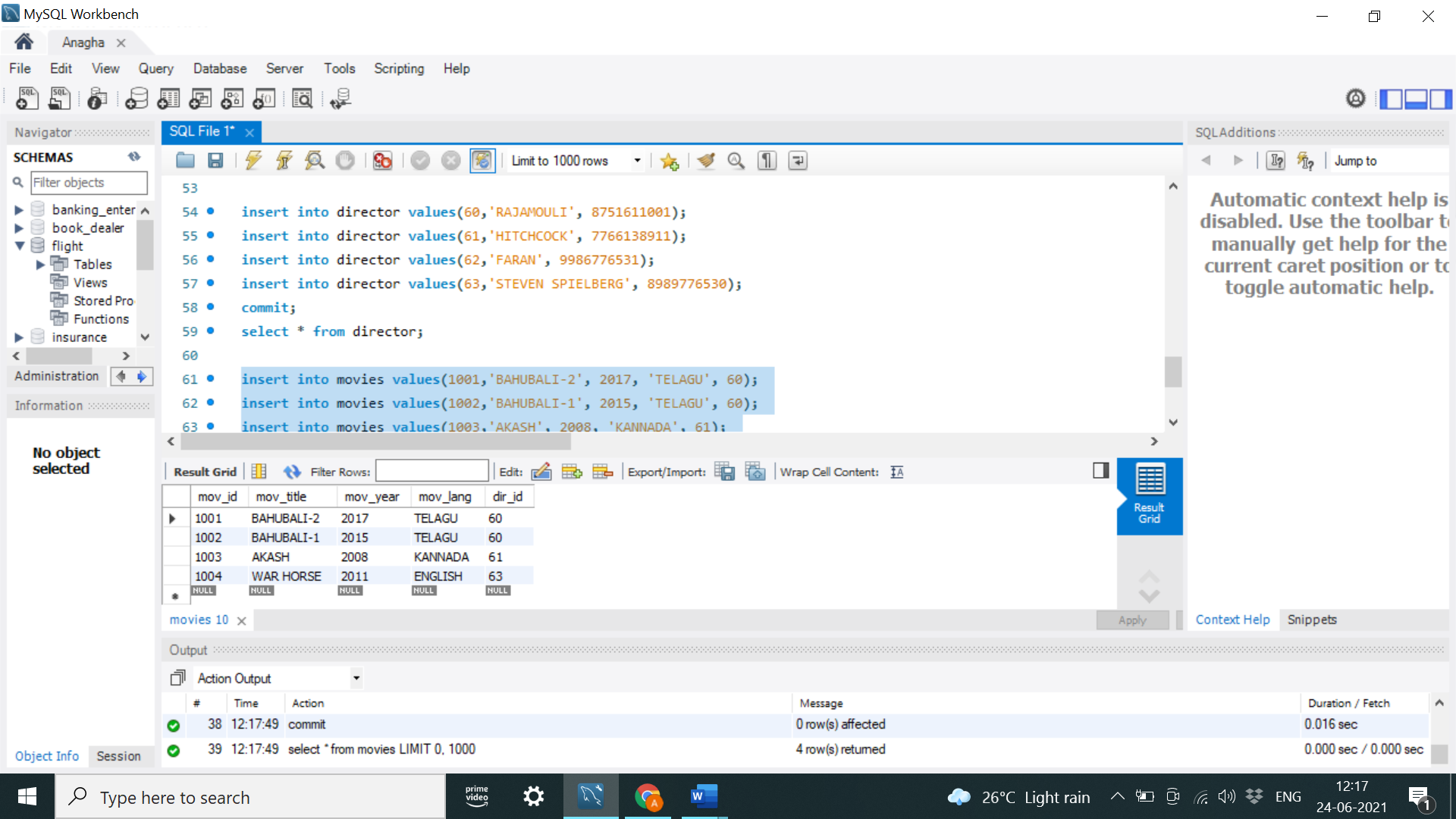
insert into movies values(1002,'BAHUBALI-1', 2015, 'TELAGU', 60);

insert into movies values(1003,'AKASH', 2008, 'KANNADA', 61);

insert into movies values(1004,'WAR HORSE', 2011, 'ENGLISH', 63);

commit;

select \* from movies;



insert into movie\_cast values(301, 1002, 'HEROINE');

insert into movie\_cast values(301, 1001, 'HEROINE');

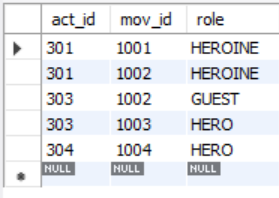
insert into movie\_cast values(303, 1003, 'HERO');

insert into movie\_cast values(303, 1002, 'GUEST');

insert into movie\_cast values(304, 1004, 'HERO');

commit;

select \* from movie\_cast;



insert into rating values(1001, 4);

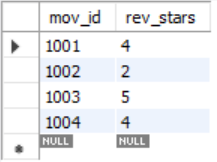
insert into rating values(1002, 2);

insert into rating values(1003, 5);

insert into rating values(1004, 4);

commit;

select \* from rating;



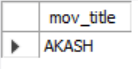
**1. List the titles of all movies directed by ‘Hitchcock’.**

select mov\_title

from movies

where dir\_id=(select dir\_id from director where dir\_name='Hitchcock')

group by mov\_title;



**2. Find the movie names where one or more actors acted in two or more movies.**

select m.mov\_title

from movies m, movie\_cast mc

where m.mov\_id=mc.mov\_id

and mc.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;



**3. List all actors who acted in a movie before 2000 and also in a movie after**

**2015 (use JOIN operation).**

select act\_name,mov\_title,mov\_year

from actor a

join movie\_cast mc

on a.act\_id=mc.act\_id

join movies m

on m.mov\_id=mc.mov\_id

where m.mov\_year not between 2000 and 2015;



**4. Find the title of movies and number of stars for each movie that has at least one rating and find the highest number of stars that movie received. Sort the result by movie title.**

select mov\_title,max(rev\_stars)

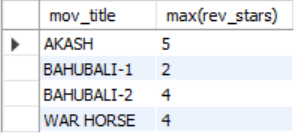
from movies

inner join rating using(mov\_id)

group by mov\_id

having max(rev\_stars)>0

order by mov\_title;



**5. Update rating of all movies directed by ‘Steven Spielberg’ to 5.**

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;

