ASSIGNMENT-2

JOIN

Consider the schema for MovieDatabase:

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)

Write SQL queries to

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

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

3. List all actors who acted in a movie before 2000 and also in a movies after 2015 (use JOIN operation).

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.

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

CODE:

```
CREATE DATABASE MOVIEDATABASE;

USE MOVIEDATABASE;

create table ACTOR(act_id int(10),act_name varchar(10),act_gender varchar(5),primary key(act_id));

create table DIRECTOR(dir_id int(10),dir_name varchar(10),dir_phone int(10),primary key(dir_id));
create table MOVIES(mov_id int(10),mov_title varchar(10),mov_year
int(10),mov_lang varchar(10),dir_id int(10),primary key(mov_id),foreign
key(dir_id) references DIRECTOR (dir_id) on delete cascade);

create table MOVIE_CAST(act_id int(10),mov_id int(10),role
varchar(10),foreign key(act_id) references ACTOR (act_id) on delete
cascade,foreign key(mov_id) references MOVIES (mov_id) on delete cascade);

create table RATING(mov_id int(10),rev_stars float(5),foreign key(mov_id)
references MOVIES (mov_id) on delete cascade);


insert into ACTOR values(101,"Coen","M"),

 (102,"Raimi","M"),

 (103,"Hanson","M"),

 (104,"Hanks","M");


insert into DIRECTOR values(111,"Steven Spielberg",2541245),

 (112,"Hitchcock",415574),

 (113,"Hitchcock",145236),

 (114,"Steven Spielberg",968746);


insert into MOVIES values(1,"Fargo",1996,"english",111),

 (2,"Wonder Boys",1998,"hindi",114),

 (3,"Raising Arizona",2002,"english",112),

 (4,"Spiderman",2018,"english",113);


insert into MOVIE_CAST values(101,1,"hero"),
(102,2,"hero"),
104,3,"villain"),
(104,4,"hero");

insert into RATING values(1,4),(2,3),(4,5),(3,2);

1.SELECT  MOVIES.mov_title FROM MOVIES
 INNER JOIN DIRECTOR ON MOVIES.dir_id=DIRECTOR.dir_id  WHERE
dir_name="Hitchcock";

2)select movies.mov_title,actor.act_id from
actor join movie_cast on actor.act_id=movie_cast.act_id
join movies on  movie_cast.mov_id=movies.mov_id
where actor.act_id=( select actor.act_id from
actor join movie_cast on actor.act_id=movie_cast.act_id
join movies on  movie_cast.mov_id=movies.mov_id group by actor.act_id
having count(mov_title)>1)

3)SELECT act_name
FROM ACTOR A
JOIN MOVIE_CAST C
ON A.act_id=C.act_id
JOIN MOVIES M
ON C.mov_id=M.mov_id
```

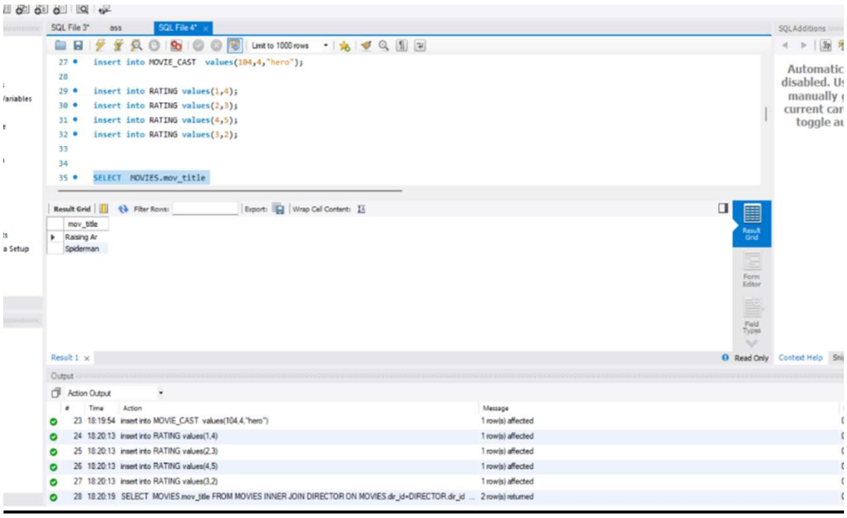
```
WHERE M.mov_year NOT BETWEEN 2000 AND 2015;
```

```
4)SELECT MOV_TITLE,MAX(REV_STARS)
FROM MOVIES
INNER JOIN RATING USING (MOV_ID)
GROUP BY MOV_TITLE
HAVING MAX(REV_STARS)>0
ORDER BY MOV_TITLE;
```

```
5)SET SQL_SAFE_UPDATES=0;
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'));
```

OUTPUTS:

1st question:

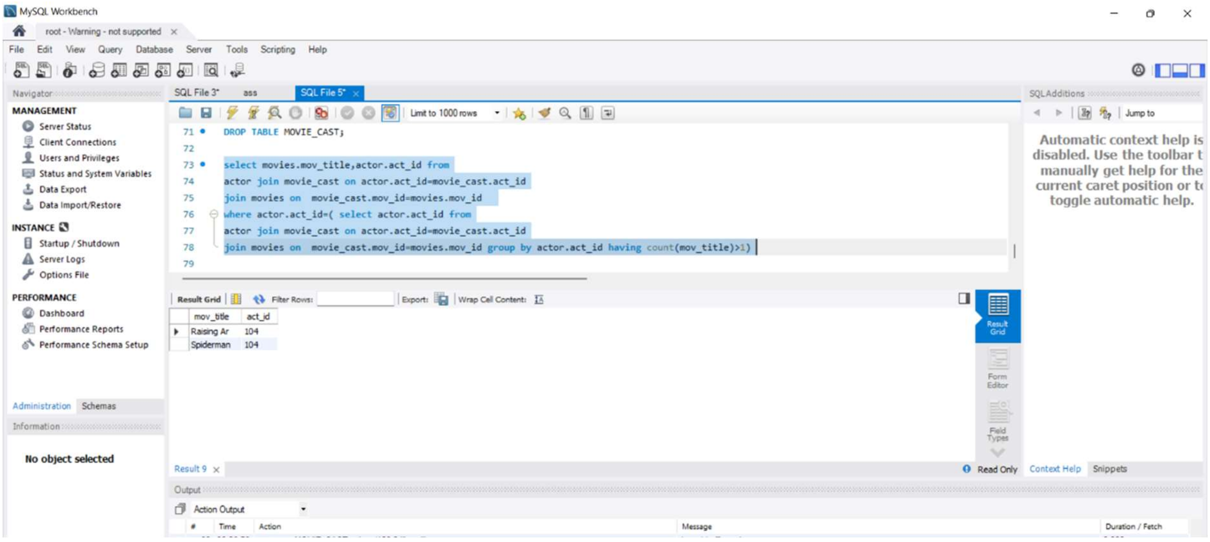


```
insert into MOVIE_CAST  values(104,4,"hero");

insert into RATING values(1,4);
insert into RATING values(2,3);
insert into RATING values(4,5);
insert into RATING values(3,2);


SELECT  MOVIES.mov_title
```

	mov_title
▸	Raising Ar
	Spiderman

```
#   Time      Action                                                                        Message
23  18:19:54  insert into MOVIE_CAST  values(104,4,"hero")                                  1 row(s) affected
24  18:20:13  insert into RATING values(1,4)                                                1 row(s) affected
25  18:20:13  insert into RATING values(2,3)                                                1 row(s) affected
26  18:20:13  insert into RATING values(4,5)                                                1 row(s) affected
27  18:20:13  insert into RATING values(3,2)                                                1 row(s) affected
28  18:20:19  SELECT  MOVIES.mov_title FROM MOVIES INNER JOIN DIRECTOR ON MOVIES.dir_id=DIRECTOR.dir_id ...  2 row(s) returned
```

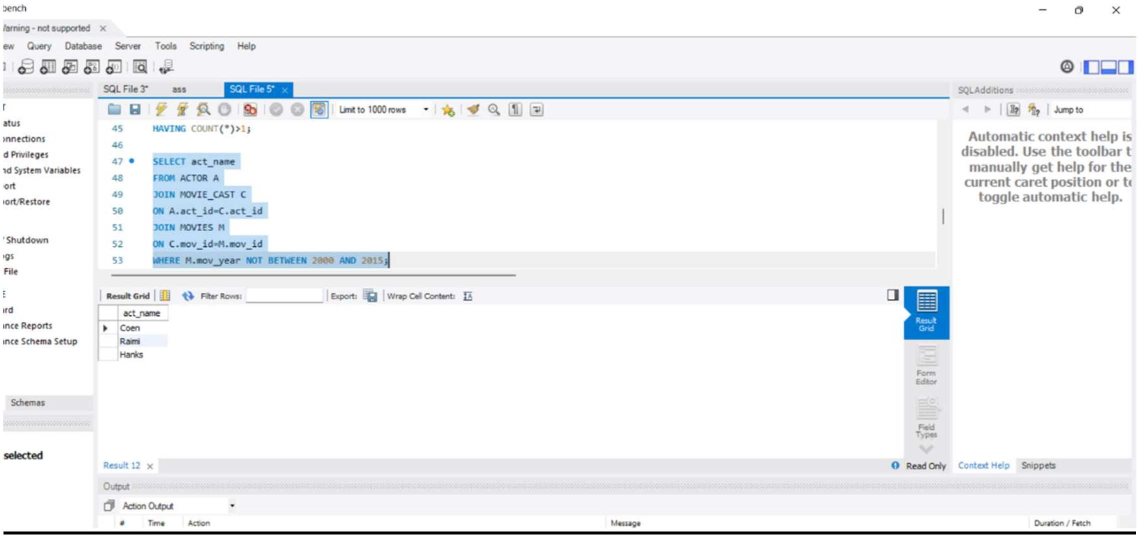
2nd question:



```
DROP TABLE MOVIE_CAST;

select movies.mov_title,actor.act_id from
actor join movie_cast on actor.act_id=movie_cast.act_id
join movies on  movie_cast.mov_id=movies.mov_id
where actor.act_id=( select actor.act_id from
actor join movie_cast on actor.act_id=movie_cast.act_id
join movies on  movie_cast.mov_id=movies.mov_id group by actor.act_id having count(mov_title)>1)
```

	mov_title	act_id
▸	Raising Ar	104
	Spiderman	104

3rd question:

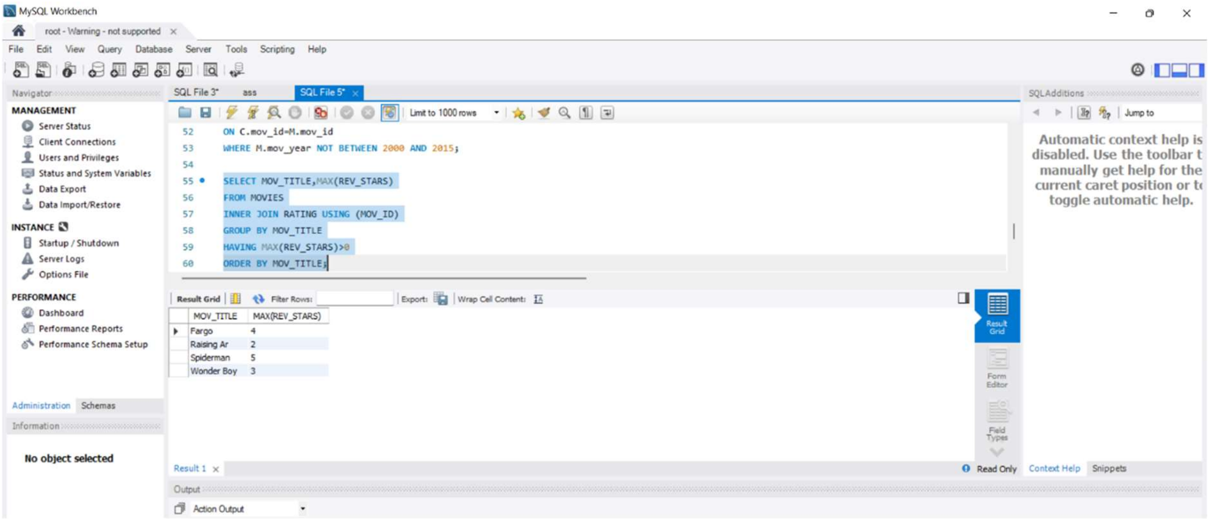


```
HAVING COUNT(*)>1;

SELECT act_name
FROM ACTOR A
JOIN MOVIE_CAST C
ON A.act_id=C.act_id
JOIN MOVIES M
ON C.mov_id=M.mov_id
WHERE M.mov_year NOT BETWEEN 2000 AND 2015;
```

act_name
Coen
Raimi
Hanks

Automatic context help is disabled. Use the toolbar t manually get help for the current caret position or t toggle automatic help.

4th question:



```
ON C.mov_id=M.mov_id
WHERE M.mov_year NOT BETWEEN 2000 AND 2015;

SELECT MOV_TITLE,MAX(REV_STARS)
FROM MOVIES
INNER JOIN RATING USING (MOV_ID)
GROUP BY MOV_TITLE
HAVING MAX(REV_STARS)>0
ORDER BY MOV_TITLE;
```

MOV_TITLE	MAX(REV_STARS)
Fargo	4
Raising Ar	2
Spiderman	5
Wonder Boy	3

No object selected

Automatic context help is disabled. Use the toolbar t manually get help for the current caret position or t toggle automatic help.