Movie DB

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

Queries Used to CREATE and INSERT

```
    create table actor (act_id number (3),act_name  varchar (20),act_gender
char (1),primary key (act_id));
    create table director (dir_id number (3),dir_name varchar (20),dir_phone
number (10),primary key (dir_id));
    create table movies (mov_id number (4),mov_title varchar (25),mov_year
number (4),mov_lang varchar (12),dir_id number (3),primary key
(mov_id),foreign key (dir_id) references director (dir_id));
    create table movie_cast (act_id number (3),mov_id number (4),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));
    create table rating (mov_id number (4),rev_stars varchar (25),primary
key (mov_id),foreign key (mov_id) references movies (mov_id));
```

WEBSITE USED FOR MYSQL

Link : http://sqlfiddle.com/

Queries

1. List the titles of all movies directed by 'Sanjay Leela Bansali'.

```
select mov_title from movies
where dir_id in(select dir_id from director
where dir_name = _hitchcock');
```

Mov_Title
Akash

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

```
select mov_title
from movies m, movie_cast mv
where m.mov_id=mv.mov_id
and 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;
```

Mov_Title
Bahubali - 1

3. 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.

```sql
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)
Akash	5
Bahubali - 1	2
Bahubali - 2	4
Warhorse	4

4. Update rating of all movies directed by 'Ram Gopal Verma' to 5.

```sql
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'));
```

Mov_id	Rev_Stars
1001	4
1002	2
1003	5
1004	5

5. Display all artists who acted in a film between 2016 and 2018.

```sql
select a.act_name, c.mov_title, c.mov_year
from actor a, movie_cast b, movie c
where a.act_id = b.act_id
```

```
    and b.mov_id=c.mov_id
    and c.mov_year NOT between 2016 and 2018;
```

Act_name	mov_title	mov_year
Vijay	Akash	2017
Prabas	Bahubali - 1	2016
Prabas	Bahubali - 2	2018
Matt Damon	Warhorse	2016

6. Display the names of films with the stars received and sort the result on the basis of stars.

```
select m.mov_title, r.rev_stars
from movies m, rating r
where r.mov_id = m.mov_id
order by r.rev_stars
```

mov_title	rev_stars
Bahubali - 1	2
Bahubali - 2	4
Warhorse	4
Akash	5