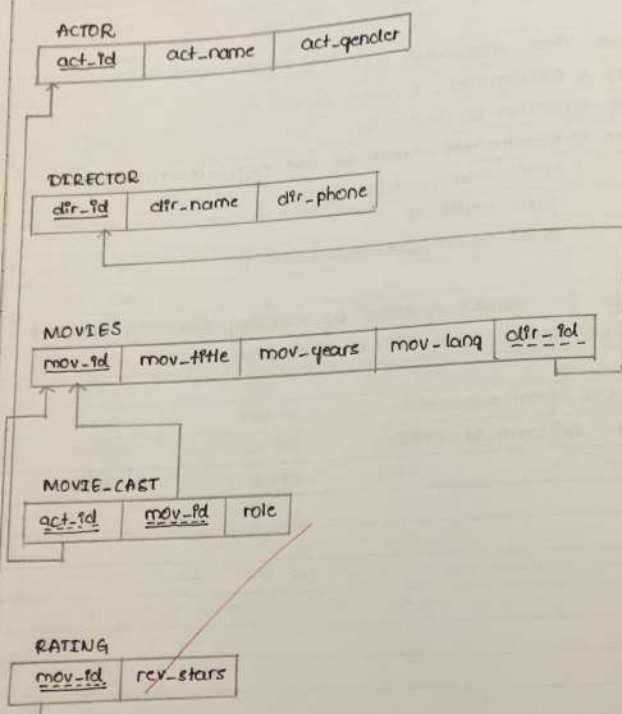


### Schema Diagram:



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### LAB PROGRAM-03

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)

Write SQL queries to

1. List the title of all the movies directed by Hitchcock
2. Find the movie name where one or more actors acted in two or more movies
3. List all the actors who acted in a movie before 2000 and also in a movie after 2015 (use join operation)
4. Find the title of movies and the number of stars for each movies that has atleast one rating and find the highest number of stars that movie received sort the result by movie title.
5. Update the rating of all movies directed by Steven Spielberg to 5.

Teacher's Signature :

Table created

Table created

Table created

Table created

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Table Creation:

```
create table actor(  
act_id int primary key,  
act_name varchar(80),  
act_gender char(2));
```

```
create table director(  
dir_id int primary key,  
dir_name varchar(80),  
dir_phone int);
```

```
create table movies(  
mov_id int primary key,  
mov_title varchar(20),  
mov_year int,  
mov_lang varchar(20),  
dir_id int,  
foreign key(dir_id) references director(dir_id) on delete cascade);
```

```
create table movie_cast(  
act_id int,  
mov_id int,  
role varchar(20),  
primary key(act_id, mov_id),  
foreign key(act_id) reference actor(act_id) on delete cascade,  
foreign key(mov_id) reference movies(mov_id) on delete cascade);
```

Teacher's Signature : \_\_\_\_\_

Table created

select \* from actors;

act-id	act-name	act-gender
301	Anushka	F
302	Prabhas	M
303	Punith	M
304	Jenny	F

select \* from directors;

dir-id	dir-name	dir-phone
60	Rajamouli	9876543210
61	Hitchcock	9844016165
62	Faran	9037792821
63	Steven-spielberg	9535648875

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create table ratings(  
mov-id int primary key,  
rev-stars int;  
foreign key (mov-id) references movies (mov-id) on delete cascade);

Value insertion:

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', 'Jenny', 'F');

insert into director values

('60', 'Rajamouli', '9876543210');

insert into director values

('61', 'Hitchcock', '9844016165');

insert into director values

('62', 'Faran', '9037792821');

insert into director values

('63', 'Steven-spielberg', '9535648875');

Teacher's Signature : .....

select \* from movies;

mov_id	mov_title	mov_year	mov_lang	dur_id
1001	Bahubali2	2017	Telugu	60
1002	Bahubali1	2015	Telugu	60
1003	Akash	2008	Kannada	61
1004	War-house	2011	English	63

select \* from movie-cast;

act_id	mov_id	role
301	1002	Heroine
301	1001	Heroine
303	1002	Hero
303	1001	quest
304	1004	Hero

select \* from rating;

mov_id	rev_stars
1001	4
1002	2
1003	5
1004	4

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3. insert into movies values

(1001, 'bahubali2', 2017, 'Telugu', 60);

insert into movies values

(1002, 'bahubali1', 2015, 'Telugu', 60);

insert into movies values

(1003, 'akash', 2008, 'kannada', 61);

insert into movies values

(1004, 'war-house', 2011, 'English', 63);

4. insert into movie-cast values

(301, 1002, 'Heroine');

insert into movie-cast values

(301, 1001, 'Heroine');

insert into movie-cast values

(303, 1002, 'Hero');

insert into movie-cast values

(303, 1001, 'quest');

insert into movie-cast values

(304, 1004, 'Hero');

5. insert into rating values

(1001, 4);

insert into rating values

(1002, 2);

insert into rating values

(1003, 5);

insert into rating values

(1004, 4);

Teacher's Signature : .....



Output:

mov\_title  
akash

MOV-TITLE  
Bahubali  
Bahubali 2

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Queries:

1. List the title of all the movies directed by Hitchcock

```
select mov_title
from movies
where dir_id IN
( select dir_id
  from director
  where dir_name='Hitchcock');
```

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

```
select m.mov_title
from movie_cast mc, movies m
where mc.mov_id=m.mov_id and mc.act_id IN
( select act_id
  from movie_cast
  group by act_id
  having count(act_id)>1 )
group by m.mov_title
having count(*)>1;
```

Teacher's Signature: \_\_\_\_\_

ACT-NAME	MOV-TITLE	MOV-YEAR
anushka	bahubali2	2017
punith	bahubali2	2017

MOV-TITLE	REV-STARS
akash	5
bahubali1	2
bahubali2	4
karhouse	4

1 row update select \* from rating

MOV-ID	REV-STARS
1001	4
1002	2
1003	5
1004	5

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

```
select a.act-name, m.mov-title, m.mov-year
from actor a
JOIN movie-cast mv ON a.act-id=mv.act-id
JOIN movies m ON m.mov-id=mv.mov-id
where m.mov-year NOT between 2000 and 2015;
```

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

```
select m.mov-title, r.Rev-stars
from movies m, rating r
where m.mov-id=r.mov-id and rev-stars > 0
order by m.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'));
```

Teacher's Signature :