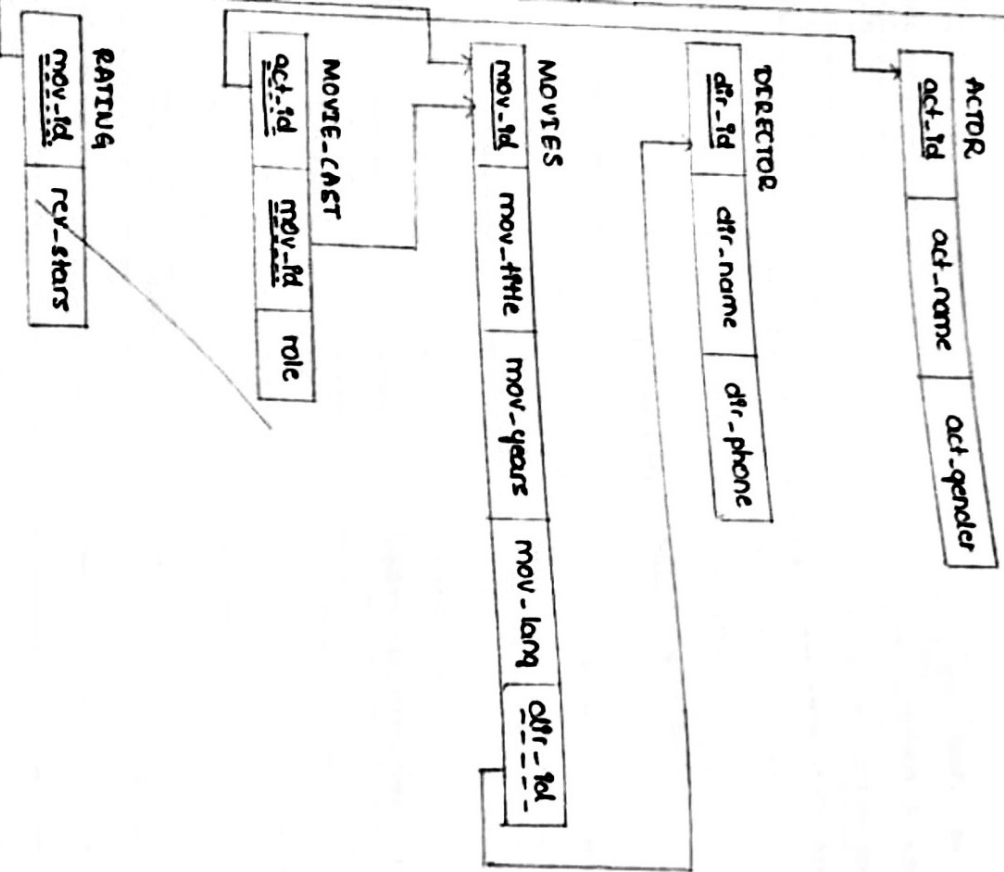


# Schema Diagram:



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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.

Table created

Table created

Table created

Table created

Table Creation:

create table actor

act\_id int primary key,

act\_name varchar(60),

act\_gender char(2));

create table director

dir\_id int primary key,

dir\_name varchar(60),

dir\_phone int);

create table movies

mov\_id int primary key,

mov\_title varchar(20),

mov\_year int,

mov\_lang varchar(60),

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(50),

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;

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	Hithcock	9844016165
62	Raman	9037792821
63	Steven-spielberg	9535648875

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', 'Hithcock', '9844016165');

insert into director values

('62', 'Raman', '9037792821');

insert into director values

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

select \* from movies;

mov_id	mov_title	mov_year	mov_lang	dir_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  
ataash

mov\_title  
Bahubali  
Bahubali 2

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 ;



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

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

now update select \* from rating

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

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'));
```