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CSE-4A

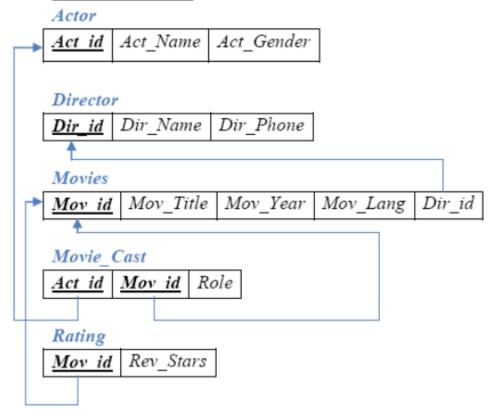
Program 9 - Movies Database

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)
Write SQL queries to

- 1. List the titles of all movies directed by 'Hitchcock'.
- 2. Find the movie names where one or more actors acted in two or more movies.
- 3. List all 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 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.

Schema Diagram

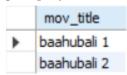


```
primary key(dir_id)
);
create table Movies(
       mov id int not null,
       mov_title varchar(20) not null,
       mov_year year not null,
       mov lang varchar(20) not null,
       dir_id int,
       primary key(mov_id),
       foreign key(dir_id) references Director(dir_id) on delete cascade
);
create table MovieCast(
       act_id int not null,
       mov_id int not null,
       role varchar(20) not null,
       primary key(act_id,mov_id),
       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 not null,
       rev stars int not null,
       primary key(mov_id),
       foreign key(mov_id) references Movies(mov_id) on delete cascade
);
insert into Actor(act_id,act_name,act_gender)
      values(301, 'Anushka', 'F'),
              (302, 'Prabhas', 'M'),
              (303, 'Punith', 'M'),
              (304, 'Jermy', 'M');
```

```
insert into Director(dir id,dir name,dir phone)
       values(60, 'Rajamouli', '8751611001'),
              (61,'Hitchcock','7766138911'),
              (62, 'Faran', 9986776531),
              (63, 'Steven Spielberg', 8989776530);
insert into Movies(mov_id,mov_title,mov_year,mov_lang,dir_id)
       values(1001, 'baahubali 2', '2017', 'Telugu', 60),
              (1002, 'baahubali 1', '2015', 'Telugu', 60),
              (1003, 'akash', '2008', 'Kannada', 61),
              (1004, 'war horse', '2011', 'English', 63);
insert into MovieCast(act_id,mov_id,role)
       values(301,1002,'Heroine'),
              (301,1001,'Heroine'),
              (303,1003,'Hero'),
              (303,1002, 'Guest'),
              (304,1004,'Hero');
insert into Rating(mov_id,rev_stars)
       values(1001,4),
              (1002,2),
              (1003,5),
              (1004,4);
-- List the titles of all movies directed by 'Hitchcock'.
select mov title from Movies, Director
where Movies.dir_id = Director.dir_id and dir_name like 'Hitchcock';
      mov_title
     akash
```

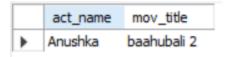
-- Find the movie names where one or more actors acted in two or more movies. select distinct m.mov title from Movies m, MovieCast mc

where m.mov_id = mc.mov_id
group by mc.act_id having count(mc.mov_id) >= 2;



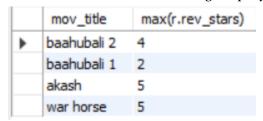
-- List all actors who acted in a movie before 2000 and also in a movie after 2015 (use JOIN operation).

select a.act_name,m.mov_title from Actor a,Movies m,MovieCast mc where m.mov_id = mc.mov_id and a.act_id = mc.act_id and m.mov_year not between '2000' and '2015';



-- 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 m.mov_title,max(r.rev_stars) from Movies m,Rating r
where m.mov_id = r.mov_id group by r.mov_id;



-- Update rating of all movies directed by 'Steven Spielberg' to 5. update Rating

set rev_stars = 5

where mov_id = (select mov_id from Movies where dir_id = (select dir_id from Director where dir_name = 'Steven Spielberg'));

select * from Rating;

1001 4 1002 2 1003 5 1004 5 NULL NULL		mov_id	rev_stars
1003 5 1004 5	•	1001	4
1004 5		1002	2
		1003	5
• NULL NULL		1004	5
		NULL	NULL