

TRISHUL M

D1

MOVIES

create database moviesdb;

use moviesdb;

create table actor (

id int primary key,

name varchar(10),

gender varchar(1)

desc actor;

create table director (

id int primary key,

name varchar(10),

phone varchar(10)

);

desc director;

create table movie (

id int primary key,

title varchar(20),

year int,

lang varchar(10),

dir_id int,

foreign key(dir_id) references director(id)

);

desc movie;

create table cast (

act_id int,

mov_id int,

```

        role varchar(20),

        primary key(act_id, mov_id),

        foreign key(act_id) references actor(id),

        foreign key(mov_id) references movie(id)

);

```

desc cast;

```

create table rating(

        mov_id int,

        stars int,

        foreign key(mov_id) references movie(id),

        check (stars > 0 and stars <= 5)

);

```

desc rating;

```

insert into actor values (301,'anushka','f'),

(302,'prabhas','m'),

(303,'punith','m'),

(304,'jermy','m');

```

select * from actor;

id	name	gender
301	anushka	f
302	prabhas	m
303	punith	m
304	jermy	m
NULL	NULL	NULL

```

insert into director values (60,'rajamouli',8751611001),

(61,'hitchcock',7766138911),

(62,'faran',9986776531),

(63,'spielberg',8989776530);

```

select * from director;

id	name	phone
60	rajamouli	8751611001
61	hitchcock	7766138911
62	faran	9986776531
63	spielberg	8989776530

insert into movie values (1001,'bahubali-2',2017,'telugu',60),

(1002,'bahubali-1',2015,'telugu',60),

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

(1004,'war horse',2011,'english',63);

select * from movie;

	id	title	year	lang	dir_id
▶	1001	bahubali-2	2017	telugu	60
	1002	bahubali-1	2015	telugu	60
	1003	akash	2008	kannada	61
	1004	war horse	2011	english	63
	NULL	NULL	NULL	NULL	NULL

insert into cast values (301,1002, 'heroine'),

(301,1001,'heroine'),(303,1003,'hero'),(303,1002,'guest'),(304, 1004,'hero');

select * from cast;

	act_id	mov_id	role
▶	301	1001	heroine
	301	1002	heroine
	303	1002	guest
	303	1003	hero
	304	1004	hero

insert into rating values

(1001,4),

(1002,2),

(1003,5),

(1004,4);

select * from rating;

mov_id	stars
1001	4
1002	2
1003	5
1004	4

-- Query 1

select title from movie m, director d where d.name='hitchcock' and d.id=m.dir_id;

title
akash

-- Query 2

select distinct title from movie m, cast c where m.id=c.mov_id and c.act_id in (select act_id from cast group by act_id having count(mov_id) > 1);

title
bahubali-2
bahubali-1
akash

-- Query 3

select distinct name from actor a, cast c where c.act_id=a.id and c.mov_id in (select id from movie m where year not between 2000 and 2015);

/*or*/

select distinct name from actor a inner join cast c on a.id=c.act_id and c.mov_id in (select id from movie m where year not between 2000 and 2015);

name
anushka

-- Query 4

select title, stars from movie m inner join (select mov_id, max(stars) as stars from rating group by mov_id) r on m.id=r.mov_id order by title;

	title	stars
▶	akash	5
	bahubali-1	2
	bahubali-2	4
	war horse	4

-- Query 5

```
update rating set stars=5 where mov_id in (select m.id from movie m, director d where m.dir_id =  
d.id and d.name='spielberg');
```

```
select * from rating;
```

Result Grid		
	mov_id	stars
▶	1001	4
	1002	2
	1003	5
	1004	5