

**LAB-9: MOVIE DATABASE****NAME: SWETHA PATIL**

```
CREATE DATABASE MOVIE;  
USE MOVIE;
```

```
create table actor(  
act_id int,  
act_name varchar(20),  
act_gender char(1),  
primary key(act_id));  
desc actor;
```

```
create table director(  
dir_id int,  
dir_name varchar(20),  
dir_phone int(10),  
primary key(dir_id));  
desc director;
```

```
alter table director  
modify column dir_phone bigint;  
desc director;
```

```
create table movies(  
mov_id int,  
mov_title varchar(25),  
mov_year int,  
mov_lang varchar(12),  
dir_id int,  
primary key(mov_id),  
foreign key(dir_id) references director(dir_id));  
desc movies;
```

```
create table movie_cast(  
act_id int,  
mov_id int,  
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));  
desc movie_cast;
```

```
create table rating(  
mov_id int,  
rev_stars varchar(25),  
primary key(mov_id),  
foreign key(mov_id) references movies(mov_id));  
desc rating;
```

```
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,'JERMY','M');
commit;
select * from actor;

```

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```

48 • insert into actor values(301,'ANUSHKA','F');
49 • insert into actor values (302,'PRABHAS','M');
50 • insert into actor values(303,'PUNITH','M');
51 • insert into actor values(304,'JERMY','M');
52 • commit;
53 • select * from actor;

```

Result Grid

	act_id	act_name	act_gender
▶	301	ANUSHKA	F
	302	PRABHAS	M
	303	PUNITH	M
	304	JERMY	M
•	NULL	NULL	NULL

actor 1 x

Output

```

insert into director values(60,'RAJAMOULI', 8751611001);
insert into director values(61,'HITCHCOCK', 7766138911);
insert into director values(62,'FARAN', 9986776531);
insert into director values(63,'STEVEN SPIELBERG', 8989776530);
commit;
select * from director;

```

54

```

55 • insert into director values(60,'RAJAMOULI', 8751611001);
56 • insert into director values(61,'HITCHCOCK', 7766138911);
57 • insert into director values(62,'FARAN', 9986776531);
58 • insert into director values(63,'STEVEN SPIELBERG', 8989776530);
59 • commit;
60 • select * from director;

```

Result Grid

	dir_id	dir_name	dir_phone
▶	60	RAJAMOULI	8751611001
	61	HITCHCOCK	7766138911
	62	FARAN	9986776531
	63	STEVEN SPIELBERG	8989776530
•	NULL	NULL	NULL

director 2 x

```

insert into movies values(1001,'BAHUBALI-2', 2017, 'TELAGU', 60);

```

```

insert into movies values(1002,'BAHUBALI-1', 2015, 'TELUGU', 60);
insert into movies values(1003,'AKASH', 2008, 'KANNADA', 61);
insert into movies values(1004,'WAR HORSE', 2011, 'ENGLISH', 63);
commit;
select * from movies;

```

61

```

62 • insert into movies values(1001,'BAHUBALI-2', 2017, 'TELUGU', 60);
63 • insert into movies values(1002,'BAHUBALI-1', 2015, 'TELUGU', 60);
64 • insert into movies values(1003,'AKASH', 2008, 'KANNADA', 61);
65 • insert into movies values(1004,'WAR HORSE', 2011, 'ENGLISH', 63);
66 • commit;
67 • select * from movies;

```

mov_id	mov_title	mov_year	mov_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 movie_cast values(301, 1002, 'HEROINE');
insert into movie_cast values(301, 1001, 'HEROINE');
insert into movie_cast values(303, 1003, 'HERO');
insert into movie_cast values(303, 1002, 'GUEST');
insert into movie_cast values(304, 1004, 'HERO');
commit;
select * from movie_cast;

```

```

69 • insert into movie_cast values(301, 1002, 'HEROINE');
70 • insert into movie_cast values(301, 1001, 'HEROINE');
71 • insert into movie_cast values(303, 1003, 'HERO');
72 • insert into movie_cast values(303, 1002, 'GUEST');
73 • insert into movie_cast values(304, 1004, 'HERO');
74 • commit;
75 • select * from movie_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);
insert into rating values(1002, 2);
insert into rating values(1003, 5);
insert into rating values(1004, 4);
commit;
select * from rating;

```

```

76
77 • insert into rating values(1001, 4);
78 • insert into rating values(1002, 2);
79 • insert into rating values(1003, 5);
80 • insert into rating values(1004, 4);
81 • commit;
82 • select * from rating;

```



The screenshot shows a SQL query window with the following text:

```

76
77 • insert into rating values(1001, 4);
78 • insert into rating values(1002, 2);
79 • insert into rating values(1003, 5);
80 • insert into rating values(1004, 4);
81 • commit;
82 • select * from rating;

```

Below the query window is a 'Result Grid' showing the results of the query. The grid has two columns: 'mov\_id' and 'rev\_stars'. The data is as follows:

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

-- List the titles of all movies directed by 'Hitchcock'

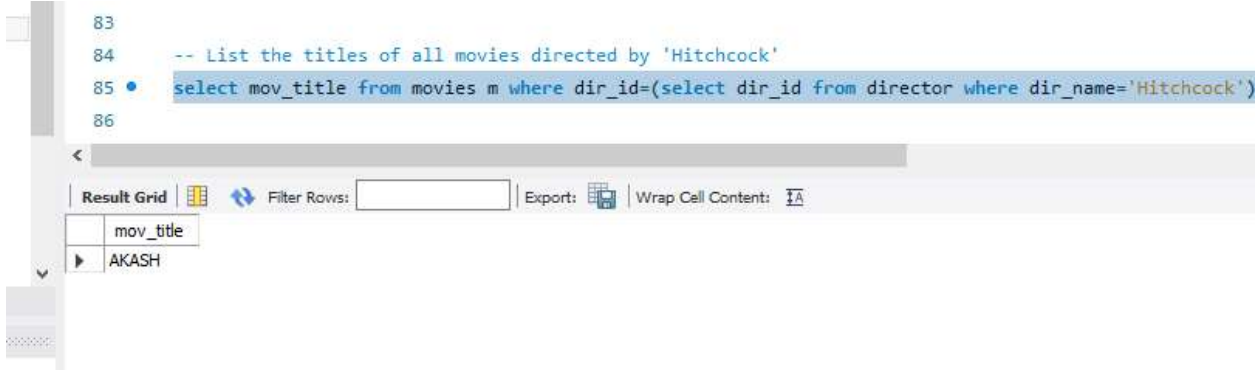
```
select mov_title from movies m where dir_id=(select dir_id from director where dir_name='Hitchcock');
```

```
select mov_title from movies m,director d where m.dir_id=d.dir_id and d.dir_name='Hitchcock';
```

```

83
84 -- List the titles of all movies directed by 'Hitchcock'
85 • select mov_title from movies m where dir_id=(select dir_id from director where dir_name='Hitchcock')
86

```



The screenshot shows a SQL query window with the following text:

```

83
84 -- List the titles of all movies directed by 'Hitchcock'
85 • select mov_title from movies m where dir_id=(select dir_id from director where dir_name='Hitchcock')
86

```

Below the query window is a 'Result Grid' showing the results of the query. The grid has one column: 'mov\_title'. The data is as follows:

mov_title
AKASH

-- find the movie names where one or more actor acted in two or more movies

```

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

```

```

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

```

```

89 -- find the movie names where one or more actor acted in two or more movies
90 • select m.mov_title
91 from movies m, movie_cast mc
92 where m.mov_id=mc.mov_id
93 and mc.act_id in( select act_id from movie_cast group by act_id having count(act_id)>1)
94 group by mov_title
95 having count(*)>1;

```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
mov_title			
BAHUBALI-1			


-- list all actors who acted in a movie before 2000 and also in a movie after 2015(use join operation)  
 select act\_name,mov\_title,mov\_year from actor a join movie\_cast mc on a.act\_id=mc.act\_id join movies m on m.mov\_id  
 =mc.mov\_id where m.mov\_year not between 2005 and 2015;


```



101 -- list all actors who acted in a movie before 2000 and also in a movie after 2015(use join operation)
102 • select act_name,mov_title,mov_year from actor a join movie_cast mc on a.act_id=mc.act_id join movies m on m.mov_id
103 =mc.mov_id where m.mov_year not between 2005 and 2015;
104
105 #Query4




```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
act_name	mov_title	mov_year	
ANUSHKA	BAHUBALI-2	2017	

Result 11 

Output 

 Action Output 

#	Time	Action	Message
	120 00:26:53	select * from rating LIMIT 0, 1000	4 row(s) returned
	121 00:27:33	select mov_title from movies m where dir_id=(select dir_id from director where dir_name...	1 row(s) returned
	122 00:27:38	select mov_title from movies m,director d where m.dir_id=d.dir_id and d.dir_name='Hitch...	1 row(s) returned

-- find the titles of movies and number of stars for each movie that has at least one rating and find the highest number of  
 -- stars that movie recieved. sort the result by movie title

```

select mov_title,max(rev_stars)
from movies
inner join rating using(mov_id)
group by mov_id

```

having max(rev\_stars)>0  
order by mov\_title;

select mov\_title,max(rev\_stars) from movies m,rating r  
where m.mov\_id=r.mov\_id group by r.mov\_id having max(rev\_stars)>0 order by mov\_title;

```
114
115 • select mov_title,max(rev_stars) from movies m,rating r
116     where m.mov_id=r.mov_id group by r.mov_id having max(rev_stars)>0 order by mov_title;
117
118
119
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	mov_title	max(rev_stars)
▶	AKASH	5
	BAHUBALI-1	2
	BAHUBALI-2	4
	WAR HORSE	4

Result 12 x

Output

-- update rating of all movies directed by 'Steven Spielberg' to 5kl  
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'));  
select \*from rating;

```
117
118 -- update rating of all movies directed by 'Steven Spielberg' to 5kl
119 • update rating set rev_stars=5
120     where mov_id in(select mov_id from movies where dir_id in(select dir_id from director where dir_name='Steven Spielberg'));
121 • select *from rating;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

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

rating 14 x

Output