

```
1 • create database movie;
2 • show databases;
3 • use movie;
4 • create table Actor(act_id int,act_name varchar(100),act_gender varchar(10),
5   primary key(act_id));
6 • create table Director(dir_id int,dir_name varchar(200),dir_phone varchar(100),
7   primary key(dir_id));
8 • create table Movies(mov_id int,mov_title varchar(255),mov_year year,mov_lang varchar(100),dir_id int,
9   primary key(mov_id),
10  foreign key (dir_id) references Director(dir_id));
11 • create table Movie_cast (act_id int,
12  foreign key (act_id) references Actor(act_id), mov_id int,
13  foreign key(mov_id) references Movies(mov_id),
14  role varchar(100), primary key(act_id,mov_id));
15 • create table Rating(mov_id int,rev_stars int,
16  foreign key(mov_id) references Movies(mov_id),
17  primary key(mov_id));
18 • insert into Actor values(1001,'Tom Crusie','M');
19 • insert into Actor values(1002,'Chris Hemsworth','M');
20 • insert into Actor values(1003,'Angelina Jolie','F');
```

```
18 • insert into Actor values(1001,'Tom Crusie','M');
19 • insert into Actor values(1002,'Chris Hemsworth','M');
20 • insert into Actor values(1003,'Angelina Jolie','F');
21 • insert into Actor values(1004,'Margot Robbie','F');
22 • insert into Actor values(1005,'Kate Winslet','F');
23 • insert into Actor values(1006,'Robert Downey','M');
24 • select * from Actor;
25 • insert into Director values(9001,'Hitchcock',9874562154);
26 • insert into Director values(9002,'Steven Spielberg',9874560054);
27 • insert into Director values(9003,'Joseph Levitan',9874562178);
28 • insert into Director values(9004,'Christopher Loyd',9874564454);
29 • insert into Director values(9005,'Yash Chopra',9874562994);
30 • insert into Director values(9006,'Tom Jones',9874503154);
31 • select * from Director;
32 • insert into Movies values(101,'Iron Man',2014,'English',9001);
33 • insert into Movies values(102,'Prosperity',2001,'Spanish',9001);
34 • insert into Movies values(103,'Spiderman',1998,'English',9002);
35 • insert into Movies values(104,'Star Wars',1999,'English',9003);
36 • insert into Movies values(105,'Thor',2017,'English',9002);
37 • insert into Movies values(106,'Captain America',1994,'English',9004);
```

```
36 • insert into Movies values(105,'Thor',2017,'English',9002);
37 • insert into Movies values(106,'Captain America',1994,'English',9004);
38 • select * from Movies;
39 • insert into Movie_cast values(1001,101,'Joey');
40 • insert into Movie_cast values(1001,102,'Conor');
41 • insert into Movie_cast values(1002,102,'Tim');
42 • insert into Movie_cast values(1002,104,'Josh');
43 • insert into Movie_cast values(1002,106,'Craft');
44 • insert into Movie_cast values(1003,103,'Kate');
45 • insert into Movie_cast values(1004,104,'Claire');
46 • insert into Movie_cast values(1005,105,'Roy');
47 • insert into Movie_cast values(1005,106,'Jo');
48 • insert into Movie_cast values(1006,105,'Sally');
49 • select * from Movie_cast;
50 • insert into Rating values(101,4);
51 • insert into Rating values(102,3);
52 • insert into Rating values(103,5);
53 • insert into Rating values(104,2);
54 • insert into Rating values(105,4);
55 • insert into Rating values(106,3);
```

```
42 • insert into Movie_cast values(1002,104,'Josh');
43 • insert into Movie_cast values(1002,106,'Craft');
44 • insert into Movie_cast values(1003,103,'Kate');
45 • insert into Movie_cast values(1004,104,'Claire');
46 • insert into Movie_cast values(1005,105,'Roy');
47 • insert into Movie_cast values(1005,106,'Jo');
48 • insert into Movie_cast values(1006,105,'Sally');
49 • select * from Movie_cast;
50 • insert into Rating values(101,4);
51 • insert into Rating values(102,3);
52 • insert into Rating values(103,5);
53 • insert into Rating values(104,2);
54 • insert into Rating values(105,4);
55 • insert into Rating values(106,3);
56 • select * from Rating;
57
58
59 • select mov_title from Movies where dir_id in
60 (select dir_id from Director where dir_name='Hitchcock');
61
```

```
60 (select dir_id from Director where dir_name='Hitchcock');
61
62 • select distinct m.mov_title,c.act_id from Movies m, Movie_cast c where m.mov_id=c.mov_id and
63 c.act_id in (select act_id from Movie_cast group by act_id having count(mov_id)>1);
64
65 • select act_name from Actor where act_id in(select a.act_id from
66 (select act_id from Movie_cast natural join Movies where mov_year<2000)a inner join
67 (select act_id from Movie_cast natural join Movies where mov_year>2015)b on a.act_id=b.act_id);
68
69 • select mov_title,max(rev_stars) from Movies m,Rating r where m.mov_id=r.mov_id
70 group by m.mov_title having count(r.rev_stars)>0 order by m.mov_title;
71
72 • update Rating set rev_stars=5 where mov_id in (select mov_id from Movies
73 inner join Director on Movies.dir_id=Director.dir_id and
74 Director.dir_name='Steven Spielberg');
75
76 • select * from Rating;
77
78
79
```



```

18 • insert into Actor values(1001,'Tom Crusie','M');
19 • insert into Actor values(1002,'Chris Hemsworth','M');
20 • insert into Actor values(1003,'Angelina Jolie','F');
21 • insert into Actor values(1004,'Margot Robbie','F');
22 • insert into Actor values(1005,'Kate Winslet','F');
23 • insert into Actor values(1006,'Robert Downey','M');
24 • select * from Actor;
25 • insert into Director values(9999,'Hitchcock',98745632154);

```

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

	act_id	act_name	act_gender
▶	1001	Tom Crusie	M
	1002	Chris Hemsworth	M
	1003	Angelina Jolie	F
	1004	Margot Robbie	F
	1005	Kate Winslet	F
	1006	Robert Downey	M
*	NULL	NULL	NULL

  
Result  
Grid

  
Form  
Editor

  
Field  
Types

Actor 21 x

Apply

Revert

```

25 • insert into Director values(9001,'Hitchcock',9874562154);
26 • insert into Director values(9002,'Steven Spielberg',9874560054);
27 • insert into Director values(9003,'Joseph Levitan',9874562178);
28 • insert into Director values(9004,'Christopher Loyd',9874564454);
29 • insert into Director values(9005,'Yash Chopra',9874562994);
30 • insert into Director values(9006,'Tom Jones',9874503154);
31 • select * from Director;
32 • insert into Movies values(101,'Top Gun',1986,'English',9001);

```

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

	dir_id	dir_name	dir_phone
▶	9001	Hitchcock	9874562154
	9002	Steven Spielberg	9874560054
	9003	Joseph Levitan	9874562178
	9004	Christopher Loyd	9874564454
	9005	Yash Chopra	9874562994
	9006	Tom Jones	9874503154
•	NULL	NULL	NULL

Result Grid

Form Editor

Field Types

Director 22

×

Apply

Revert

```

32 • insert into Movies values(101,'Iron Man',2014,'English',9001);
33 • insert into Movies values(102,'Prosperity',2001,'Spanish',9001);
34 • insert into Movies values(103,'Spiderman',1998,'English',9002);
35 • insert into Movies values(104,'Star Wars',1999,'English',9003);
36 • insert into Movies values(105,'Thor',2017,'English',9002);
37 • insert into Movies values(106,'Captain America',1994,'English',9004);
38 • select * from Movies;
39 • insert into Movie cast values(1001,101,'Lead');

```

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

	mov_id	mov_title	mov_year	mov_lang	dir_id
▶	101	Iron Man	2014	English	9001
	102	Prosperity	2001	Spanish	9001
	103	Spiderman	1998	English	9002
	104	Star Wars	1999	English	9003
	105	Thor	2017	English	9002
	106	Captain America	1994	English	9004
*	NULL	NULL	NULL	NULL	NULL

Result Grid

Form Editor

Field Types

Movies 23 x

Apply







Revert



```

42 • insert into Movie_cast values(1002,104,'Josh');
43 • insert into Movie_cast values(1002,106,'Craft');
44 • insert into Movie_cast values(1003,103,'Kate');
45 • insert into Movie_cast values(1004,104,'Claire');
46 • insert into Movie_cast values(1005,105,'Roy');
47 • insert into Movie_cast values(1005,106,'Jo');
48 • insert into Movie_cast values(1006,105,'Sally');
49 • select * from Movie_cast;
50 • insert into Rating values(101,4);

```

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

	act_id	mov_id	role
▶	1001	101	Joey
	1001	102	Conor
	1002	102	Tim
	1002	104	Josh
	1002	106	Craft
	1003	103	Kate
	1004	104	Claire
	1005	105	Roy
	1005	106	Jo
	1006	105	Sally

Movie\_cast 24 x

Apply

Revert


Result  
Grid

Form  
Editor

Field  
Types

```
49 • select * from Movie_cast;
50 • insert into Rating values(101,4);
51 • insert into Rating values(102,3);
52 • insert into Rating values(103,5);
53 • insert into Rating values(104,2);
54 • insert into Rating values(105,4);
55 • insert into Rating values(106,3);
56 • select * from Rating;
```

57

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

	mov_id	rev_stars
▶	101	4
	102	3
	103	5
	104	2
	105	5
	106	3
•	NULL	NULL

Result  
Grid

Form  
Editor

Field  
Types

Rating 25 x

Apply

Revert

```

59 • select mov_title from Movies where dir_id in
60 (select dir_id from Director where dir_name='Hitchcock');
61
62 • select distinct m.mov_title,c.act_id from Movies m, Movie_cast c where m.mov_id=c.mov_id and
63 c.act_id in (select act_id from Movie_cast group by act_id having count(mov_id)>1);
64
65 • select act_name from Actor where act_id in(select a.act_id from
66 (select act_id from Movie_cast natural join Movies where mov_year<2000)a inner join

```

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

	mov_title
▶	Iron Man
	Prosperity

Result Grid

Form Editor

Field Types

Movies 26 x

Read Only

```

62 • select distinct m.mov_title,c.act_id from Movies m, Movie_cast c where m.mov_id=c.mov_id and
63 c.act_id in (select act_id from Movie_cast group by act_id having count(mov_id)>1);
64
65 • select act_name from Actor where act_id in(select a.act_id from
66 (select act_id from Movie_cast natural join Movies where mov_year<2000)a inner join
67 (select act_id from Movie_cast natural join Movies where mov_year>2015)b on a.act_id=b.act_id);
68
69 • select mov_title,max(rev_star) from Movies m Rating r where m.mov_id=r.mov_id

```

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

	mov_title	act_id
►	Iron Man	1001
	Prosperity	1001
	Prosperity	1002
	Star Wars	1002
	Thor	1005
	Captain America	1002
	Captain America	1005

Result 27 x

Read Only

Result Grid

Form Editor

Field Types

64

```
65 • select act_name from Actor where act_id in(select a.act_id from
66 (select act_id from Movie_cast natural join Movies where mov_year<2000)a inner join
67 (select act_id from Movie_cast natural join Movies where mov_year>2015)b on a.act_id=b.act_id);
```

68

```
69 • select mov_title,max(rev_stars) from Movies m,Rating r where m.mov_id=r.mov_id
70 group by m.mov_title having count(r.rev_stars)>0 order by m.mov_title;
```

71

```
72 • update Rating set rev_stars=5 where mov_id in (select mov_id from Movies
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [IA](#)

	act_name
▶	Kate Winslet

Result Grid

Form Editor

Field Types

Actor 28 x


Read Only



```

68
69 • select mov_title,max(rev_stars) from Movies m,Rating r where m.mov_id=r.mov_id
70 group by m.mov_title having count(r.rev_stars)>0 order by m.mov_title;
71
72 • update Rating set rev_stars=5 where mov_id in (select mov_id from Movies
73 inner join Director on Movies.dir_id=Director.dir_id and

```

Result Grid  Filter Rows:  Export:  Wrap Cell Content: 


	mov_title	max(rev_stars)
▶	Captain America	3
	Iron Man	4
	Prosperity	3
	Spiderman	5
	Star Wars	2
	Thor	5

 Result Grid

 Form Editor

 Field Types

Result 29 x

 Read Only

```
72 • update Rating set rev_stars=5 where mov_id in (select mov_id from Movies
73 inner join Director on Movies.dir_id=Director.dir_id and
74 Director.dir_name='Steven Spielberg');
75
76 • select * from Rating;
77
```

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

	mov_id	rev_stars
▶	101	4
	102	3
	103	5
	104	2
	105	5
	106	3
*	NULL	NULL

Rating 30 x

Apply

Revert



Result  
Grid



Form  
Editor



Field  
Types