mysql> create table Actor(act_id integer primary key,act_name varchar(100),act_gender varchar(10)); Query OK, 0 rows affected (0.04 sec) mysql> create table Director(dir_id integer primary key,dir_name varchar(200),dir_phone varchar(100)); Query OK, 0 rows affected (0.04 sec) mysql> create table Movies(mov_id integer primary key,mov_title varchar(255),mov_year year,mov_lang varchar(100),dir_id int, foreign key (dir_id) references Director(dir_id)); Query OK, 0 rows affected (0.02 sec) mysql> create table Movie_cast (act_id int,foreign key (act_id) references Actor(act_id), mov_id int, foreign key(mov_id) references Movies(mov_id),role varchar(100), primary key(act_id,mov_id)); Query OK, 0 rows affected (0.04 sec) mysql> create table Rating(mov_id integer primary key , foreign key(mov_id) references Movies(mov_id),rev_stars integer); Query OK, 0 rows affected (0.04 sec) mysql> insert into Actor values(1001, 'Tom Crusie', 'M'),(1002, 'Chris Hemsworth', 'M'),(1003, 'Angelina Jolie','F'),(1004, 'Margot Robbie','F'),(1005, 'Kate Winslet','F'),(1006, 'Robert Downey','M'); Query OK, 6 rows affected (0.02 sec) Records: 6 Duplicates: 0 Warnings: 0 mysql> insert into Director values (9001, 'Hitchcock', 9874562154), (9002, 'Steven Spielberg',9874560054),(9003, 'Joseph Levitan',9874562178),(9004, 'Christopher Loyd',9874564454),(9005, 'Yash Chopra',9874562994),(9006, 'Tom Jones',9874503154); Query OK, 6 rows affected (0.02 sec) Records: 6 Duplicates: 0 Warnings: 0 mysql> select * from Director;

| 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 |
+----+
6 rows in set (0.00 sec)
mysql> insert into Movies values
 -> (101,'Iron
Man',2014, 'English',9001), (102, 'Prosperity',2001, 'Spanish',9001), (103, 'Spiderman',1998, 'English',900
2),(104,'Star Wars',1999,'English',9003),(105,'Thor',2017,'English',9002),(106,'Captain
America',1994, 'English',9004);
Query OK, 6 rows affected (0.02 sec)
Records: 6 Duplicates: 0 Warnings: 0
mysql> select * from Movies;
| mov_id | mov_title | mov_year | mov_lang | dir_id |
| 102 | Prosperity | 2001 | Spanish | 9001 |
| 103 | Spiderman | 1998 | English | 9002 |
| 104 | Star Wars | 1999 | English | 9003 |
| 106 | Captain America | 1994 | English | 9004 |
+-----+
6 rows in set (0.00 sec)
```

```
(1001,101,'Joey'),(1001,102,'Conor'),(1002,102,'Tim'),(1003,103,'Kate'),(1004,104,'Claire'),(1006,105,
'Sally'),(1005,106,'Jo');
Query OK, 7 rows affected (0.02 sec)
Records: 7 Duplicates: 0 Warnings: 0
mysql> insert into Movie_cast values(1002,106,'Craft'),(1002,104,'Josh'),(1005,105,'Roy');
Query OK, 3 rows affected (0.02 sec)
Records: 3 Duplicates: 0 Warnings: 0
mysql> select * from Movie_cast;
+----+
| 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 |
10 rows in set (0.00 sec)
mysql> insert into Rating values(101,4),(102,3),(103,5),(104,2),(105,4),(106,3);
Query OK, 6 rows affected (0.02 sec)
Records: 6 Duplicates: 0 Warnings: 0
```

mysql> insert into Movie_cast values

mysql> select * from Rating;

```
+----+
| mov_id | rev_stars |
+----+
| 101 |
          4 |
| 102 |
           3 |
| 103 |
           5 |
| 104 |
           2 |
| 105 |
           4 |
| 106 |
           3 |
+----+
6 rows in set (0.00 sec)
mysql> select mov_title from Movies where dir_id in (select dir_id from Director where
dir_name='Hitchcock');
+----+
| mov_title |
+----+
| Iron Man |
| Prosperity |
+----+
2 rows in set (0.00 sec)
mysql> select distinct m.mov_title,c.act_id from Movies m, Movie_cast c where m.mov_id=c.mov_id
and c.act_id in (select act_id from Movie_cast group by act_id having count(mov_id)>1);
+----+
| mov_title | act_id |
+----+
| Iron Man
           | 1001 |
| Prosperity | 1001 |
| Prosperity | 1002 |
| Star Wars
           | 1002 |
| Thor
         | 1005 |
```

```
| Captain America | 1002 |
| Captain America | 1005 |
+----+
7 rows in set (0.00 sec)
mysql> select act_name from Actor where act_id in(select a.act_id from (select act_id from
Movie_cast natural join Movies where mov_year<2000)a inner join (select act_id from Movie_cast
natural join Movies where mov_year>2015)b on a.act_id=b.act_id);
+----+
act_name |
+----+
| Kate Winslet |
+----+
1 row in set (0.00 sec)
mysql> select mov_title,max(rev_stars) from Movies m,Rating r where m.mov_id=r.mov_id group by
m.mov_title having count(r.rev_stars)>0;
+----+
| mov_title | max(rev_stars) |
+----+
| Iron Man | 4 |
| Prosperity |
                    3 |
| Spiderman |
                   5 |
| Star Wars
                    2 |
          | Thor
       3 |
| Captain America |
6 rows in set (0.00 sec)
```

mysql> update Rating set rev_stars=5 where mov_id in (select mov_id from Movies inner join

Director on Movies.dir_id=Director.dir_id and Director.dir_name='Steven Spielberg');

Query OK, 1 row affected (0.00 sec)

Rows matched: 2 Changed: 1 Warnings: 0

mysql> select * from Rating;

+----+

| mov_id | rev_stars |

+----+

| 101 | 4 |

| 102 | 3 |

| 103 | 5 |

| 104 | 2 |

| 105 | 5 |

| 106 | 3 |

+----+

6 rows in set (0.00 sec)

mysql>