

1)

```
TABLE ACTOR(  
  ACTID integer(5),  
  ACTNAME VARCHAR(20),  
  ACTGENDER CHAR(1),  
  PRIMARY KEY (ACTID));
```

```
CREATE TABLE DIRECTOR(  
  DIRID integer(3),  
  DIRNAME VARCHAR(20),  
  DIRPHONE integer(10),  
  PRIMARY KEY (DIRID));
```

```
Create TABLE MOVIES(  
  MOVID integer(4),  
  MOVTITLE VARCHAR(25),  
  MOVYEAR integer(4),  
  MOVLANG VARCHAR(12),  
  DIRID integer(3),  
  PRIMARY KEY (MOVID),  
  FOREIGN KEY (DIRID) REFERENCES DIRECTOR(DIRID));  
  
CREATE TABLE MOVIECAST(  
  ACTID integer(3),  
  MOVID integer(4),  
  ROLE VARCHAR(10),  
  PRIMARY KEY (ACTID,MOVID),  
  FOREIGN KEY (ACTID) REFERENCES ACTOR(ACTID),  
  FOREIGN KEY (MOVID) REFERENCES MOVIES(MOVID));
```

```
Create TABLE RATING(  
MOVID integer(3),  
REVSTARS VARCHAR(25),  
PRIMARY KEY(MOVID),  
FOREIGN KEY (MOVID) REFERENCES MOVIES(MOVID));
```

2)

```
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,'SUDEEP','M');
```

```
INSERT INTO ACTOR VALUES(305,'AKSHAY','M');
```

```
INSERT INTO DIRECTOR VALUES(60,'RAJAMOULI',919191919);
```

```
INSERT INTO DIRECTOR VALUES(61,'HITCHCOCK',818181818);
```

```
INSERT INTO DIRECTOR VALUES(62,'FARAN',717171717);
```

```
INSERT INTO DIRECTOR VALUES(63,'STEVEN SPIELBERG',616161616);
```

```
INSERT INTO DIRECTOR VALUES(64,'MANIRATHNAM',919191919);
```

```
INSERT INTO MOVIES VALUES(1001,'BAHUBALI-2',2017,'TELUGU',60);
```

```
INSERT INTO MOVIES VALUES(1002,'BAHUBALI-1',2015,'TELUGU',60);
```

```
INSERT INTO MOVIES VALUES(1003,'AKASH',2008,'KANADA',61);
```

```
INSERT INTO MOVIES VALUES(1004,'WAR HORSE',2011,'ENGLISH',63);
```

```
INSERT INTO MOVIES VALUES(1005,'TRAPKING',2017,'ENGLISH',64);
```

```
INSERT INTO MOVIECAST VALUES(301,1002,'HEROINE');
```

```
INSERT INTO MOVIECAST VALUES(301,1001,'HEROINE');
```

```
INSERT INTO MOVIECAST VALUES(303,1003,'HERO');
```

```
INSERT INTO MOVIECAST VALUES(303,1002,'GUEST');
```

```
INSERT INTO MOVIECAST VALUES(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);
```

```
INSERT INTO RATING VALUES(1005,1);
```

3)

```
SELECT MOVTITLE
```

```
FROM MOVIES
```

```
WHERE DIRID IN (SELECT DIRID
```

```
FROM DIRECTOR
```

```
WHERE DIRNAME='HITCHCOCK');
```

4)

```
SELECT MOVTITLE
```

```
FROM MOVIES M,MOVIECAST MV
```

```
WHERE M.MOVID=MV.MOVID AND ACTID IN (SELECT ACTID
```

```
FROM MOVIECAST GROUP BY ACTID
```

```
HAVING COUNT (ACTID)>1)
```

```
GROUP BY MOVTITLE
```

```
HAVING COUNT(*)>1;
```

5)

```
SELECT ACTNAME,MOVTITLE,MOVYEAR
```

```
FROM ACTOR A
```

```
JOIN MOVIECAST C
```

```
ON A.ACTID=C.ACTID
```

```
JOIN MOVIES M
```

```
ON C.MOVID=M.MOVID
```

```
WHERE M.MOVYEAR NOT BETWEEN 2000 AND 2015;
```

6)

```
SELECT MOVTITLE,MAX(REVSTARS)
```

```
FROM MOVIES
```

INNER JOIN RATING USING (MOVID)

GROUP BY MOVTITLE

HAVING MAX (REVSTARS)>0

ORDER BY MOVTITLE;

7)

UPDATE RATING

SET REVSTARS=5

WHERE MOVID IN (SELECT MOVID FROM MOVIES

WHERE DIRID IN (SELECT DIRID

FROM DIRECTOR

WHERE DIRNAME='STEVEN SPIELBERG'));

Select * from RATING;

```
MariaDB [movie]> select * from ACTOR;
```

ACTID	ACTNAME	ACTGENDER
301	ANUSHKA	F
302	PUNITH	M
303	PRABHAS	M
304	SUDEEP	M
305	AKSHAY	M

```
5 rows in set (0.018 sec)
```

```
MariaDB [movie]> SELECT * FROM DIRECTOR;
```

DIRID	DIRNAME	DIRPHONE
60	RAJAMOULI	919191919
61	HITCHCOCK	818181818
62	FARAN	717171717
63	STEVEN SPIELBERG	616161616
64	MANIRATHNAM	919191919

```
5 rows in set (0.013 sec)
```

```
MariaDB [movie]> SELECT * FROM MOVIES;
```

MOVID	MOVTITLE	MOVYEAR	MOVLANG	DIRID
1001	BAHUBALI-2	2017	TELUGU	60
1002	BAHUBALI-1	2015	TELUGU	60
1003	AKASH	2008	KANADA	61
1004	WAR HORSE	2011	ENGLISH	63
1005	TRAPKING	2017	ENGLISH	64

```
5 rows in set (0.002 sec)
```

```
MariaDB [movie]> SELECT * FROM MOVIECAST;
```

ACTID	MOVID	ROLE
301	1001	HEROINE
301	1002	HEROINE
303	1002	GUEST
303	1003	HERO
304	1004	HERO

```
5 rows in set (0.003 sec)
```

```
MariaDB [movie]> SELECT * FROM RATING;
```

MOVID	REVSTARS
1001	4
1002	2
1003	5
1004	4
1005	1

```
5 rows in set (0.001 sec)
```

```
MariaDB [movie]>  
MariaDB [movie]> SELECT MOVTITLE  
-> FROM MOVIES  
-> WHERE DIRID IN (SELECT DIRID  
-> FROM DIRECTOR  
-> WHERE DIRNAME='HITCHCOCK');
```

```
+-----+  
| MOVTITLE |  
+-----+  
| AKASH    |  
+-----+
```

```
1 row in set (0.116 sec)
```

```

MariaDB [movie]> SELECT MOVTITLE
-> FROM MOVIES M,MOVIECAST MV
-> WHERE M.MOVID=MV.MOVID AND ACTID IN (SELECT ACTID

-> FROM MOVIECAST GROUP BY ACTID
-> HAVING COUNT (ACTID)>1)
-> GROUP BY MOVTITLE
-> HAVING COUNT(*)>1;

```

```

+-----+

```

```

| MOVTITLE |

```

```

+-----+

```

```

| BAHUBALI-1 |

```

```

+-----+

```

```

1 row in set (0.044 sec)

```

```

MariaDB [movie]>

```

```

MariaDB [movie]> SELECT ACTNAME,MOVTITLE,MOVYEAR
-> FROM ACTOR A
-> JOIN MOVIECAST C
-> ON A.ACTID=C.ACTID
-> JOIN MOVIES M
-> ON C.MOVID=M.MOVID
-> WHERE M.MOVYEAR NOT BETWEEN 2000 AND 2015;

```

```

+-----+-----+-----+

```

```

| ACTNAME | MOVTITLE | MOVYEAR |

```

```

+-----+-----+-----+

```

```

| ANUSHKA | BAHUBALI-2 | 2017 |

```

```

+-----+-----+-----+

```

```

1 row in set (0.085 sec)

```



```

MariaDB [movie]> SELECT MOVTITLE,MAX(REVSTARS)
-> FROM MOVIES
-> INNER JOIN RATING USING (MOVID)
-> GROUP BY MOVTITLE
-> HAVING MAX (REVSTARS)>0
-> ORDER BY MOVTITLE;

```

```

+-----+-----+
| MOVTITLE | MAX(REVSTARS) |
+-----+-----+
| AKASH    | 5              |
| BAHUBALI-1 | 2              |
| BAHUBALI-2 | 4              |
| TRAPKING  | 1              |
| WAR HORSE | 4              |
+-----+-----+

```

5 rows in set (0.017 sec)

```

MariaDB [movie]> UPDATE RATING
-> SET REVSTARS=5
-> WHERE MOVID IN (SELECT MOVID FROM MOVIES
-> WHERE DIRID IN (SELECT DIRID
-> FROM DIRECTOR
-> WHERE DIRNAME='STEVEN SPIELBERG'));

```

Query OK, 1 row affected (0.097 sec)

Rows matched: 1 Changed: 1 Warnings: 0

```

MariaDB [movie]> select * from rating;
ERROR 1146 (42S02): Table 'movie.rating' doesn't exist
MariaDB [movie]> select * from RATING;

```

```

+-----+-----+
| MOVID | REVSTARS |
+-----+-----+
| 1001  | 4        |
| 1002  | 2        |
| 1003  | 5        |
| 1004  | 5        |
| 1005  | 1        |
+-----+-----+

```

5 rows in set (0.002 sec)