

Consider the schema for Movie Database:

```
ACTOR(Act_id, Act_Name, Act_Gender)
DIRECTOR(Dir_id, Dir_Name, Dir_Phone)
MOVIES(Mov_id, Mov_Title, Mov_Year, Mov_Lang, Dir_id)
MOVIE_CAST(Act_id, Mov_id, Role)
RATING(Mov_id, Rev_Stars)
```

CREATING TABLES:

```
CREATE DATABASE MOVIE_DATABASE;
```

```
CREATE TABLE ACTOR (
ACT_ID INTEGER PRIMARY KEY,
ACT_NAME VARCHAR(20),
ACT_GENDER CHAR(1));
```

```
CREATE TABLE DIRECTOR(
DIR_ID INTEGER PRIMARY KEY,
DIR_NAME VARCHAR(20),
DIR_PHONE INTEGER);
```

```
CREATE TABLE MOVIES(
MOV_ID INTEGER PRIMARY KEY,
MOV_TITLE VARCHAR(25),
MOV_YEAR INTEGER,
MOV_LANG VARCHAR(15),
DIR_ID INTEGER,
FOREIGN KEY (DIR_ID) REFERENCES DIRECTOR(DIR_ID));
```

```
CREATE TABLE MOVIE_CAST(
ACT_ID INTEGER,
MOV_ID INTEGER,
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));
```

```
CREATE TABLE RATING(
MOV_ID INTEGER PRIMARY KEY,
REV_STARS VARCHAR(25),
FOREIGN KEY (MOV_ID) REFERENCES MOVIES(MOV_ID));
```

INSERTION:

```
INSERT INTO ACTOR VALUES(101,'RAHUL','M');
INSERT INTO ACTOR VALUES(102,'ANKITHA','F');
INSERT INTO ACTOR VALUES(103,'RADHIKA','F');
INSERT INTO ACTOR VALUES(104,'CHETHAN','M');
INSERT INTO ACTOR VALUES(105,'VIVAN','M');
```

Showing rows 0 - 4 (5 total, Query took 0.0014 seconds.)

SELECT \* FROM `actor`

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			ACT_ID	ACT_NAME	ACT_GENDER
<input type="checkbox"/>				101	RAHUL M
<input type="checkbox"/>				102	ANKITHA F
<input type="checkbox"/>				103	RADHIKA F
<input type="checkbox"/>				104	CHETHAN M
<input type="checkbox"/>				105	VIVAN M

INSERT INTO DIRECTOR VALUES(201,'ANUP',918181818);  
 INSERT INTO DIRECTOR VALUES(202,'HITCHCOCK',918181812);  
 INSERT INTO DIRECTOR VALUES(203,'SHASHANK',918181813);  
 INSERT INTO DIRECTOR VALUES(204,'STEVEN SPIELBERG',918181814);  
 INSERT INTO DIRECTOR VALUES(205,'ANAND',918181815);

Showing rows 0 - 4 (5 total, Query took 0.0012 seconds.)

SELECT \* FROM `director`

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				DIR_ID	DIR_NAME	DIR_PHONE
<input type="checkbox"/>				201	ANUP	918181818
<input type="checkbox"/>				202	HITCHCOCK	918181812
<input type="checkbox"/>				203	SHASHANK	918181813
<input type="checkbox"/>				204	STEVEN SPIELBERG	918181814
<input type="checkbox"/>				205	ANAND	918181815

INSERT INTO MOVIES VALUES(1001,'MANASU',2017,'KANNADA',201);  
 INSERT INTO MOVIES VALUES(1002,'AAKASHAM',2015,'TELUGU',202);  
 INSERT INTO MOVIES VALUES(1003,'KALIYONA',2008,'KANNADA',201);  
 INSERT INTO MOVIES VALUES(1004,'WAR HORSE',2011,'ENGLISH',204);  
 INSERT INTO MOVIES VALUES(1005,'HOME',2012,'ENGLISH',205);

SELECT \* FROM `movies`

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					MOV_ID	MOV_TITLE	MOV_YEAR	MOV_LANG	DIR_ID
<input type="checkbox"/>					1001	MANASU	2017	KANNADA	201
<input type="checkbox"/>					1002	AAKASHAM	2015	TELUGU	202
<input type="checkbox"/>					1003	KALIYONA	2008	KANNADA	201
<input type="checkbox"/>					1004	WAR HORSE	2011	ENGLISH	204
<input type="checkbox"/>					1005	HOME	2012	ENGLISH	205

INSERT INTO MOVIE\_CAST VALUES(101,1002,'HERO');  
 INSERT INTO MOVIE\_CAST VALUES(101,1001,'HERO');  
 INSERT INTO MOVIE\_CAST VALUES(103,1003,'HEROINE');  
 INSERT INTO MOVIE\_CAST VALUES(103,1002,'GUEST');  
 INSERT INTO MOVIE\_CAST VALUES(104,1004,'HERO');

Showing rows 0 - 4 (5 total, Query took 0.0012 seconds.)

```
SELECT * FROM `movie_cast`
```

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	ACT_ID	MOV_ID	ROLE
<input type="checkbox"/> <a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	101	1001	HERO
<input type="checkbox"/> <a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	101	1002	HERO
<input type="checkbox"/> <a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	103	1002	GUEST
<input type="checkbox"/> <a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	103	1003	HEROINE
<input type="checkbox"/> <a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	104	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(1005,3);
```

Showing rows 0 - 4 (5 total, Query took 0.0000 seconds.)

```
SELECT * FROM `rating`
```

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	MOV_ID	REV_STARS
<input type="checkbox"/> <a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	1001	4
<input type="checkbox"/> <a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	1002	2
<input type="checkbox"/> <a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	1003	5
<input type="checkbox"/> <a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	1004	5
<input type="checkbox"/> <a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	1005	3

i. List the titles of all movies directed by 'Hitchcock'.

```
SELECT MOV_TITLE
FROM MOVIES
WHERE DIR_ID = (SELECT DIR_ID
FROM DIRECTOR
WHERE DIR_NAME='HITCHCOCK')
```

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```
SELECT MOV_TITLE FROM MOVIES WHERE DIR_ID = (SELECT DIR_ID FROM DIRECTOR WHERE DIR_NAME='HITCHCOCK')
```

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	MOV_TITLE
<input type="checkbox"/> <a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	AAKASHAM

ii. Find the movie names where one or more actors acted in two or more movies.

```

SELECT MOV_TITLE
FROM MOVIES M,MOVIE_CAST MC
WHERE M.MOV_ID=MC.MOV_ID AND 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;

```

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```

SELECT MOV_TITLE FROM MOVIES M,MOVIE_CAST MC WHERE M.MOV_ID=MC.MOV_ID AND 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

```

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MOV_TITLE
AAKASHAM

iii. List all actors who acted in a movie before 2000 and also in a movie after 2015 (use JOIN operation).

```

SELECT ACT_NAME
FROM ACTOR A
JOIN MOVIE_CAST C
ON A.ACT_ID=C.ACT_ID
JOIN MOVIES M
ON C.MOV_ID=M.MOV_ID
WHERE M.MOV_YEAR NOT BETWEEN 2000 AND 2015;

```

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```

SELECT ACT_NAME FROM ACTOR A JOIN MOVIE_CAST C ON A.ACT_ID=C.ACT_ID JOIN MOVIES M ON C.MOV_ID=M.MOV_ID WHERE M.MOV_YEAR NOT BETWEEN 2000
AND 2015

```

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ACT_NAME
RAHUL

iv. Find the title of movies and number of stars for each movie that has at least one rating and find the highest number of stars that movie received. Sort the result by movie title.

```

SELECT MOV_TITLE,MAX(REV_STARS)
FROM MOVIES
INNER JOIN RATING USING (MOV_ID)
GROUP BY MOV_TITLE
HAVING MAX(REV_STARS)>0
ORDER BY MOV_TITLE;

```

✓ Showing rows 0 - 4 (5 total, Query took 0.0068 seconds.) [MOV\_TITLE: AAKASHAM... - WAR HORSE...]

```
SELECT MOV_TITLE,MAX(REV_STARS) FROM MOVIES INNER JOIN RATING USING (MOV_ID) GROUP BY MOV_TITLE HAVING MAX(REV_STARS)>0 ORDER BY MOV_TITLE
```

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MOV_TITLE	MAX(REV_STARS)
AAKASHAM	2
HOME	3
KALIYONA	5
MANASU	4
WAR HORSE	4

v. Update rating of all movies directed by 'Steven Spielberg' to 5.

```
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'));
```

Show query box

✓ 1 row affected. (Query took 0.0105 seconds.)

```
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'))
```

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