

PROGRAM 9: MOVIE DATABASE

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)

✔ MySQL returned an empty result set (i.e. zero rows). (Query took 0.3704 seconds.)

```
CREATE TABLE ACTOR ( ACT_ID INT (3) PRIMARY KEY, ACT_NAME VARCHAR (20), ACT_GENDER VARCHAR (1) )
```

[[Edit inline](#)] [[Edit](#)] [[Create PHP code](#)]

✔ MySQL returned an empty result set (i.e. zero rows). (Query took 0.2360 seconds.)

```
CREATE TABLE DIRECTOR ( DIR_ID INT (3) PRIMARY KEY, DIR_NAME VARCHAR (20), DIR_PHONE INT (10) )
```

[[Edit inline](#)] [[Edit](#)] [[Create PHP code](#)]

✔ MySQL returned an empty result set (i.e. zero rows). (Query took 0.1630 seconds.)

```
CREATE TABLE MOVIES ( MOV_ID INT (4) PRIMARY KEY , MOV_TITLE VARCHAR (25), MOV_YEAR INT (4), MOV_LANG VARCHAR (12), DIR_ID INT (3),  
FOREIGN KEY (DIR_ID) REFERENCES DIRECTOR (DIR_ID) on UPDATE CASCADE ON DELETE CASCADE)
```

[[Edit inline](#)] [[Edit](#)] [[Create PHP code](#)]

✔ MySQL returned an empty result set (i.e. zero rows). (Query took 0.1658 seconds.)

```
CREATE TABLE MOVIE_CAST ( ACT_ID INT (3), MOV_ID INT (4), ROLE VARCHAR (10), FOREIGN KEY (ACT_ID) REFERENCES ACTOR (ACT_ID) on UPDATE  
CASCADE ON DELETE CASCADE, FOREIGN KEY (MOV_ID) REFERENCES MOVIES (MOV_ID) on UPDATE CASCADE ON DELETE CASCADE)
```

[[Edit inline](#)] [[Edit](#)] [[Create PHP code](#)]

✔ MySQL returned an empty result set (i.e. zero rows). (Query took 0.2214 seconds.)

```
CREATE TABLE RATING ( MOV_ID INT (4), REV_STARS VARCHAR (25), FOREIGN KEY (MOV_ID) REFERENCES MOVIES (MOV_ID) on UPDATE CASCADE ON DELETE  
CASCADE)
```

[[Edit inline](#)] [[Edit](#)] [[Create PHP code](#)]

Table ▲	Action	Rows	Type	Collation	Size	Overhead
<input type="checkbox"/> actor	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/> director	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/> movies	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
<input type="checkbox"/> movie_cast	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	48.0 KiB	-
<input type="checkbox"/> rating	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
5 tables	Sum	0	InnoDB	utf8mb4_general_ci	144.0 KiB	0 B

✔ 1 row inserted. (Query took 0.0422 seconds.)

```
INSERT INTO `actor` VALUES (101,'Hrithik','M')
```

[[Edit inline](#)] [[Edit](#)] [[Create PHP code](#)]

✔ 1 row inserted. (Query took 0.0626 seconds.)

```
INSERT INTO `actor` VALUES (102,'Shahrukh','M')
```

[[Edit inline](#)] [[Edit](#)] [[Create PHP code](#)]

✔ 1 row inserted. (Query took 0.0472 seconds.)

```
INSERT INTO `actor` VALUES (103,'Anushka','F')
```

[[Edit inline](#)] [[Edit](#)] [[Create PHP code](#)]

✔ 1 row inserted. (Query took 0.0312 seconds.)

```
INSERT INTO `actor` VALUES (104,'Kareena','F')
```

[[Edit inline](#)] [[Edit](#)] [[Create PHP code](#)]

✔ 1 row inserted. (Query took 0.0478 seconds.)

```
INSERT INTO `actor` VALUES (105,'Saif','M')
```

[[Edit inline](#)] [[Edit](#)] [[Create PHP code](#)]

✓ Showing rows 0 - 4 (5 total, Query took 0.0020 seconds.)

`SELECT * FROM `actor``

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

☐ Show all | Number of rows: Filter rows: Sort by key:

+ Options

				ACT_ID	ACT_NAME	ACT_GENDER
<input type="checkbox"/>	Edit	Copy	Delete	101	Hrithik	M
<input type="checkbox"/>	Edit	Copy	Delete	102	Shahrukh	M
<input type="checkbox"/>	Edit	Copy	Delete	103	Anushka	F
<input type="checkbox"/>	Edit	Copy	Delete	104	Kareena	F
<input type="checkbox"/>	Edit	Copy	Delete	105	Saif	M

☐ Check all With selected: Edit Copy Delete Export

✓ 1 row inserted. (Query took 0.0392 seconds.)

```
INSERT INTO `director` VALUES (201,'Steven Spielberg',987654320)
```

[[Edit inline](#)] [[Edit](#)] [[Create PHP code](#)]

✓ 1 row inserted. (Query took 0.1312 seconds.)

```
INSERT INTO `director` VALUES (202,'Rajmouli',987654321)
```

[[Edit inline](#)] [[Edit](#)] [[Create PHP code](#)]

✓ 1 row inserted. (Query took 0.0186 seconds.)

```
INSERT INTO `director` VALUES (203,'Tarantino',987654322)
```

[[Edit inline](#)] [[Edit](#)] [[Create PHP code](#)]

✓ 1 row inserted. (Query took 0.0382 seconds.)

```
INSERT INTO `director` VALUES (204,'Hitchcock',987654323)
```

[[Edit inline](#)] [[Edit](#)] [[Create PHP code](#)]

✓ 1 row inserted. (Query took 0.0312 seconds.)

```
INSERT INTO `director` VALUES (205,'Anurag Kashyap',987654324)
```

[[Edit inline](#)] [[Edit](#)] [[Create PHP code](#)]

✓ Showing rows 0 - 4 (5 total, Query took 0.0010 seconds.)

SELECT * FROM `director`

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

☐ Show all | Number of rows: 25 ▼ Filter rows: Sort by key: None ▼

+ Options

← T →				▼	DIR_ID	DIR_NAME	DIR_PHONE
<input type="checkbox"/>	 Edit	 Copy	 Delete		201	Steven Spielberg	987654320
<input type="checkbox"/>	 Edit	 Copy	 Delete		202	Rajmouli	987654321
<input type="checkbox"/>	 Edit	 Copy	 Delete		203	Tarantino	987654322
<input type="checkbox"/>	 Edit	 Copy	 Delete		204	Hitchcock	987654323
<input type="checkbox"/>	 Edit	 Copy	 Delete		205	Anurag Kashyap	987654324

▲                

✓ 1 row inserted. (Query took 0.0512 seconds.)

```
INSERT INTO `movies` VALUES (301,'Malang',2019,'Hindi',201)
```

[[Edit inline](#)] [[Edit](#)] [[Create PHP code](#)]

✓ 1 row inserted. (Query took 0.1844 seconds.)

```
INSERT INTO `movies` VALUES (302,'Bahubali',2018,'Hindi',203)
```

[[Edit inline](#)] [[Edit](#)] [[Create PHP code](#)]

✓ 1 row inserted. (Query took 0.1278 seconds.)

```
INSERT INTO `movies` VALUES (303,'DDLJ',1990,'Hindi',202)
```

[[Edit inline](#)] [[Edit](#)] [[Create PHP code](#)]

✓ 1 row inserted. (Query took 0.0226 seconds.)

```
INSERT INTO `movies` VALUES (304,'Ramayan',2001,'Hindi',204)
```

[[Edit inline](#)] [[Edit](#)] [[Create PHP code](#)]

✓ 1 row inserted. (Query took 0.0468 seconds.)

```
INSERT INTO `movies` VALUES (305,'Tenet-Hindi',2021,'Hindi',205)
```

[[Edit inline](#)] [[Edit](#)] [[Create PHP code](#)]

✓ Showing rows 0 - 4 (5 total, Query took 0.0020 seconds.)

`SELECT * FROM `movies``

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

☐ Show all | Number of rows: 25 ▼ Filter rows: Sort by key: None ▼

+ Options

← T →				MOV_ID	MOV_TITLE	MOV_YEAR	MOV_LANG	DIR_ID
<input type="checkbox"/>	Edit	Copy	Delete	301	Malang	2019	Hindi	201
<input type="checkbox"/>	Edit	Copy	Delete	302	Bahubali	2018	Hindi	203
<input type="checkbox"/>	Edit	Copy	Delete	303	DDLJ	1990	Hindi	202
<input type="checkbox"/>	Edit	Copy	Delete	304	Ramayan	2001	Hindi	204
<input type="checkbox"/>	Edit	Copy	Delete	305	Tenet-Hindi	2021	Hindi	205

⬆ ☐ Check all With selected: Edit Copy Delete Export

☐ Show all | Number of rows: 25 ▼ Filter rows: Sort by key: None ▼

✓ 1 row inserted. (Query took 0.0402 seconds.)

```
INSERT INTO `movie_cast` VALUES (102,301,'Lead')
```

[[Edit inline](#)] [[Edit](#)] [[Create PHP code](#)]

✓ 1 row inserted. (Query took 0.0844 seconds.)

```
INSERT INTO `movie_cast` VALUES (101,302,'Lead')
```

[[Edit inline](#)] [[Edit](#)] [[Create PHP code](#)]

✓ 1 row inserted. (Query took 0.0456 seconds.)

```
INSERT INTO `movie_cast` VALUES (105,303,'Lead')
```

[[Edit inline](#)] [[Edit](#)] [[Create PHP code](#)]

✓ 1 row inserted. (Query took 0.0410 seconds.)

```
INSERT INTO `movie_cast` VALUES (103,304,'Supporting')
```

[[Edit inline](#)] [[Edit](#)] [[Create PHP code](#)]

✓ 1 row inserted. (Query took 0.0310 seconds.)

```
INSERT INTO `movie_cast` VALUES (104,305,'Supporting')
```

[[Edit inline](#)] [[Edit](#)] [[Create PHP code](#)]

✓ 1 row inserted. (Query took 0.0320 seconds.)

```
INSERT INTO `movie_cast` VALUES (103,301,'Supporting')
```

[[Edit inline](#)] [[Edit](#)] [[Create PHP code](#)]

✓ Showing rows 0 - 5 (6 total, Query took 0.0010 seconds.)

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

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☐ Show all

Number of rows:

25

Filter rows:

Search this table

Sort by key:

None

+ Options

ACT_ID	MOV_ID	ROLE
102	301	Lead
101	302	Lead
105	303	Lead
103	304	Supporting
104	305	Supporting
103	301	Supporting

✓ 1 row inserted. (Query took 0.0798 seconds.)

```
INSERT INTO `RATING` VALUES (301,4)
```

[[Edit inline](#)] [[Edit](#)] [[Create PHP code](#)]

✓ 1 row inserted. (Query took 0.1168 seconds.)

```
INSERT INTO `RATING` VALUES (302,2)
```

[[Edit inline](#)] [[Edit](#)] [[Create PHP code](#)]

✓ 1 row inserted. (Query took 0.0430 seconds.)

```
INSERT INTO `RATING` VALUES (303, 5)
```

[[Edit inline](#)] [[Edit](#)] [[Create PHP code](#)]

✓ 1 row inserted. (Query took 0.0320 seconds.)

```
INSERT INTO `RATING` VALUES (304, 4)
```

[[Edit inline](#)] [[Edit](#)] [[Create PHP code](#)]

✓ 1 row inserted. (Query took 0.0570 seconds.)

```
INSERT INTO `RATING` VALUES (302,5)
```

[[Edit inline](#)] [[Edit](#)] [[Create PHP code](#)]

✓ 1 row inserted. (Query took 0.0550 seconds.)

```
INSERT INTO `RATING` VALUES (303, 1)
```

[[Edit inline](#)] [[Edit](#)] [[Create PHP code](#)]

✓ Showing rows 0 - 5 (6 total, Query took 0.0020 seconds.)

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

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

☐ Show all | Number of rows: 25 ▼ Filter rows: Sort by key: None ▼

+ Options

MOV_ID	REV_STARS
301	4
302	2
303	5
304	4
302	5
303	1

Write SQL queries to

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

 Showing rows 0 - 0 (1 total, Query took 0.0156 seconds.)

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

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

☐ Show all | Number of rows: 25  Filter rows:

+ Options



	MOV_TITLE
<input type="checkbox"/>	Ramayan

 Edit  Copy  Delete

 ☐ Check all With selected:  Edit  Copy  Delete  Export

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

✓ Showing rows 0 - 1 (2 total, Query took 0.0156 seconds.)

```
SELECT MOV_TITLE FROM MOVIES M, MOVIE_CAST C WHERE M.MOV_ID=C.MOV_ID AND ACT_ID IN (SELECT ACT_ID FROM MOVIE_CAST GROUP BY ACT_ID HAVING COUNT(ACT_ID)>1)
```

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☐ Show all | Number of rows: 25 ▼ Filter rows:

+ Options

MOV_TITLE

Malang

Ramayan

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

✓ Showing rows 0 - 4 (5 total, Query took 0.0070 seconds.)

```
SELECT ACT_NAME, MOV_TITLE, MOV_YEAR 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
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

☐ Show all | Number of rows: 25 ▼ Filter rows: Sort by key: None ▼

+ Options

ACT_NAME	MOV_TITLE	MOV_YEAR
Shahrukh	Malang	2019
Hrithik	Bahubali	2018
Saif	DDLJ	1990
Kareena	Tenet-Hindi	2021
Anushka	Malang	2019

☐ Show all | Number of rows: 25 ▼ Filter rows: Sort by key: None ▼

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.

✓ Showing rows 0 - 3 (4 total, Query took 0.0312 seconds.) [MOV_TITLE: BAHUBALI... - RAMAYAN...]

```
SELECT MOV_TITLE,MAX(REV_STARS) AS Max_Rating FROM MOVIES M,RATING R WHERE M.MOV_ID=R.MOV_ID GROUP BY M.MOV_TITLE HAVING MAX(REV_STARS)>0 ORDER BY M.MOV_TITLE
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ▼ Filter rows:

+ Options

MOV_TITLE ▲ 1	Max_Rating
Bahubali	5
DDLJ	5
Malang	4
Ramayan	4

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

✓ 1 row affected. (Query took 0.0634 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'))
```

[\[Edit inline \]](#) [\[Edit \]](#) [\[Create PHP code \]](#)

✓ Showing rows 0 - 5 (6 total, Query took 0.0010 seconds.)

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

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

☐ Show all | Number of rows: Filter rows: Sort by key:

+ Options

MOV_ID	REV_STARS
301	5
302	2
303	5
304	4
302	5
303	1