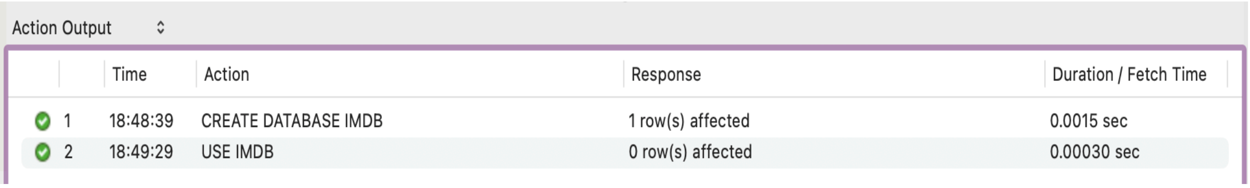
MySQL : Creation of database IMDB and tables along with PRIMARY KEY, FOREIGN KEY creation and insertion of data into tables.

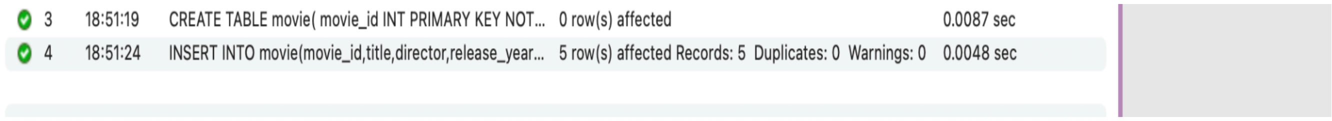
```
CREATE DATABASE IMDB;
USE IMDB;
```



```
     Time      Action                 Response           Duration / Fetch Time
  1  18:48:39  CREATE DATABASE IMDB   1 row(s) affected  0.0015 sec
  2  18:49:29  USE IMDB               0 row(s) affected  0.00030 sec
```

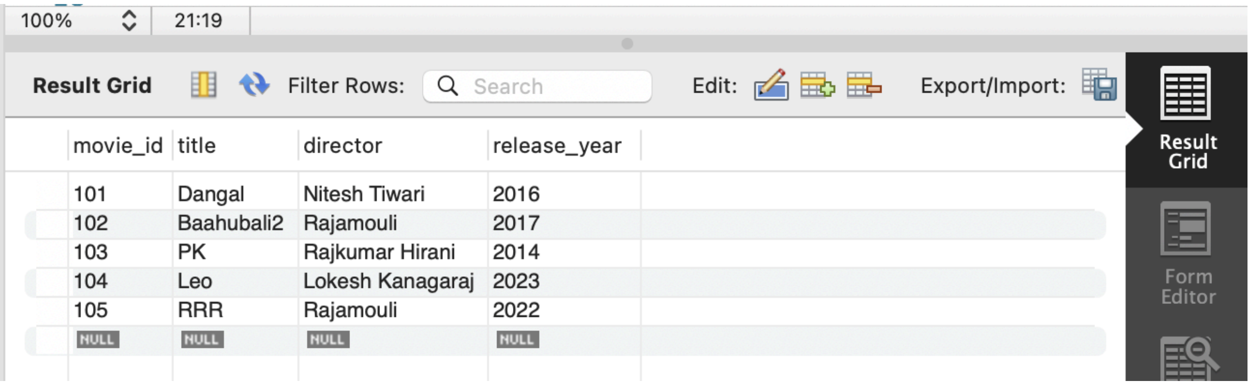
CREATE TABLE movie(
movie_id INT PRIMARY KEY NOT NULL,
title VARCHAR(100) NOT NULL,
director VARCHAR(100) NOT NULL,
release_year YEAR
);

```
INSERT INTO movie(movie_id,title,director,release_year) VALUES
(101,'Dangal','Nitesh Tiwari',2016),
(102,'Baahubali2','Rajamouli',2017),
(103,'PK','Rajkumar Hirani',2014),
(104,'Leo','Lokesh Kanagaraj',2023),
(105,'RRR','Rajamouli',2022);
```



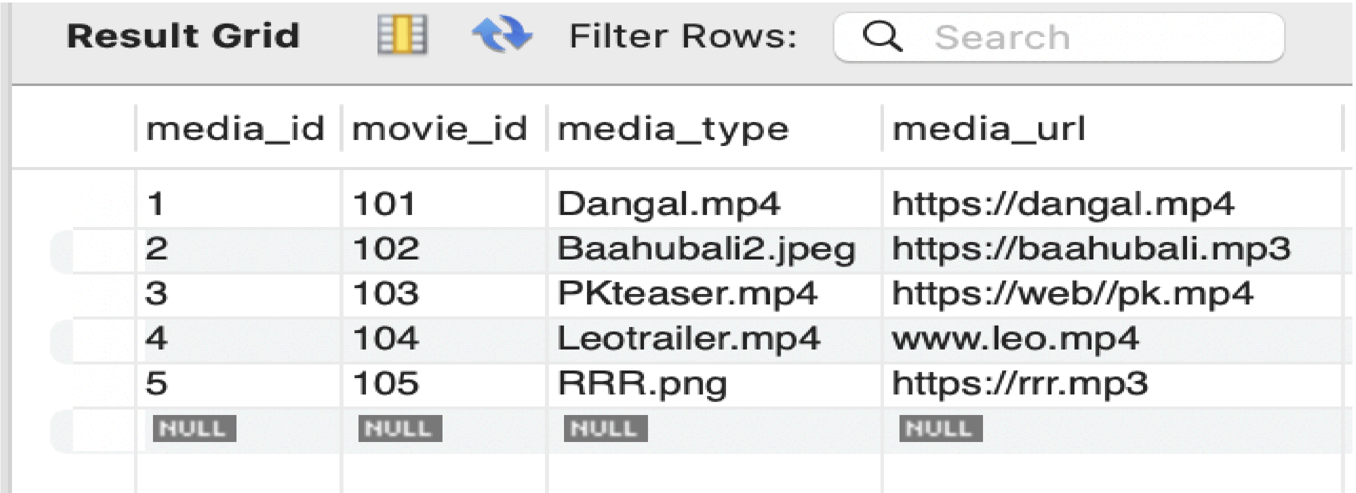
```
3  18:51:19  CREATE TABLE movie( movie_id INT PRIMARY KEY NOT...  0 row(s) affected                                         0.0087 sec
4  18:51:24  INSERT INTO movie(movie_id,title,director,release_year...  5 row(s) affected Records: 5  Duplicates: 0  Warnings: 0  0.0048 sec
```

```
SELECT * FROM movie;
```



```
movie_id  title       director          release_year
101       Dangal      Nitesh Tiwari     2016
102       Baahubali2  Rajamouli         2017
103       PK          Rajkumar Hirani   2014
104       Leo         Lokesh Kanagaraj  2023
105       RRR         Rajamouli         2022
NULL      NULL        NULL              NULL
```

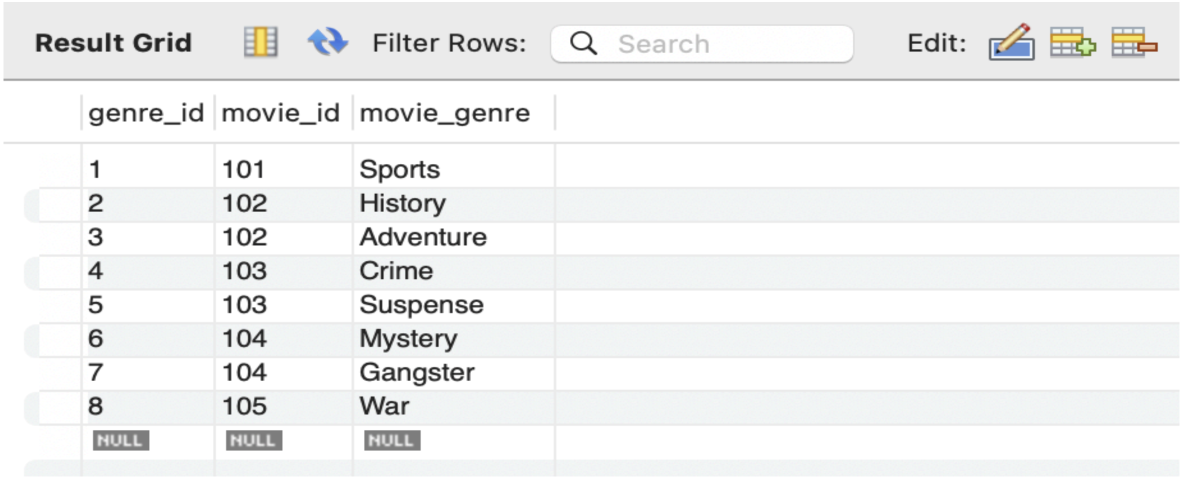
```
#movie_id is used as a FOREIGN KEY
CREATE TABLE media(
media_id INT PRIMARY KEY AUTO_INCREMENT,
movie_id INT,
media_type VARCHAR(200),
media_url VARCHAR(200),
FOREIGN KEY(movie_id) REFERENCES movie(movie_id)
);


INSERT INTO media(movie_id,media_type,media_url) VALUES
(101,'Dangal.mp4','https://dangal.mp4'),
(102,'Baahubali2.jpeg','https://baahubali.mp3'),
(103,'PKteaser.mp4','https://web//pk.mp4'),
(104,'Leotrailer.mp4','www.leo.mp4'),
(105,'RRR.png','https://rrr.mp3');

SELECT * FROM media;
```



media_id	movie_id	media_type	media_url
1	101	Dangal.mp4	https://dangal.mp4
2	102	Baahubali2.jpeg	https://baahubali.mp3
3	103	PKteaser.mp4	https://web//pk.mp4
4	104	Leotrailer.mp4	www.leo.mp4
5	105	RRR.png	https://rrr.mp3
NULL	NULL	NULL	NULL

```
CREATE TABLE genre(
genre_id INT PRIMARY KEY AUTO_INCREMENT,
movie_id INT,
movie_genre VARCHAR(100),
FOREIGN KEY(movie_id) REFERENCES movie(movie_id)
);
```

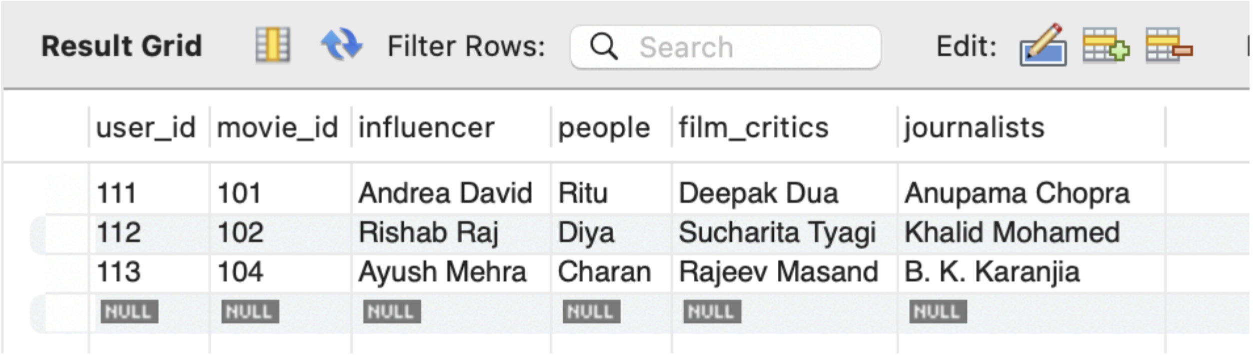
```
INSERT INTO genre(movie_id,movie_genre) VALUES
(101,'Sports'),(102,'History'),(102,'Adventure'),(103,'Crime'),(103,'Suspense'),
(104,'Mystery'),(104,'Gangster'),(105,'War');

SELECT * FROM genre;
```



genre_id	movie_id	movie_genre
1	101	Sports
2	102	History
3	102	Adventure
4	103	Crime
5	103	Suspense
6	104	Mystery
7	104	Gangster
8	105	War
NULL	NULL	NULL

```
CREATE TABLE user(
user_id INT PRIMARY KEY NOT NULL,
movie_id INT,
influencer VARCHAR(50),
people VARCHAR(50),
film_critics VARCHAR(50),
journalists VARCHAR(50),
FOREIGN KEY(movie_id) REFERENCES movie(movie_id)
);

INSERT INTO user(user_id,movie_id,influencer,people,film_critics,journalists) VALUES
(111,101,'Andrea David','Ritu','Deepak Dua','Anupama Chopra'),
(112,102,'Rishab Raj','Diya','Sucharita Tyagi','Khalid Mohamed'),
(113,104,'Ayush Mehra','Charan','Rajeev Masand','B. K. Karanjia');
```

```
SELECT * FROM user;
```

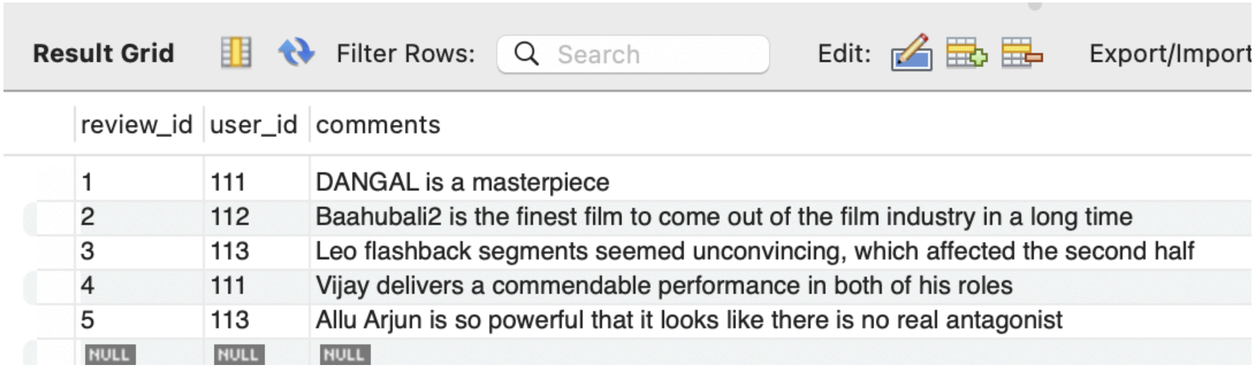


user_id	movie_id	influencer	people	film_critics	journalists
111	101	Andrea David	Ritu	Deepak Dua	Anupama Chopra
112	102	Rishab Raj	Diya	Sucharita Tyagi	Khalid Mohamed
113	104	Ayush Mehra	Charan	Rajeev Masand	B. K. Karanjia
NULL	NULL	NULL	NULL	NULL	NULL

```
CREATE TABLE reviews(
review_id INT PRIMARY KEY AUTO_INCREMENT,
user_id INT,
FOREIGN KEY(user_id) REFERENCES user(user_id),
comments VARCHAR(200)
);
```

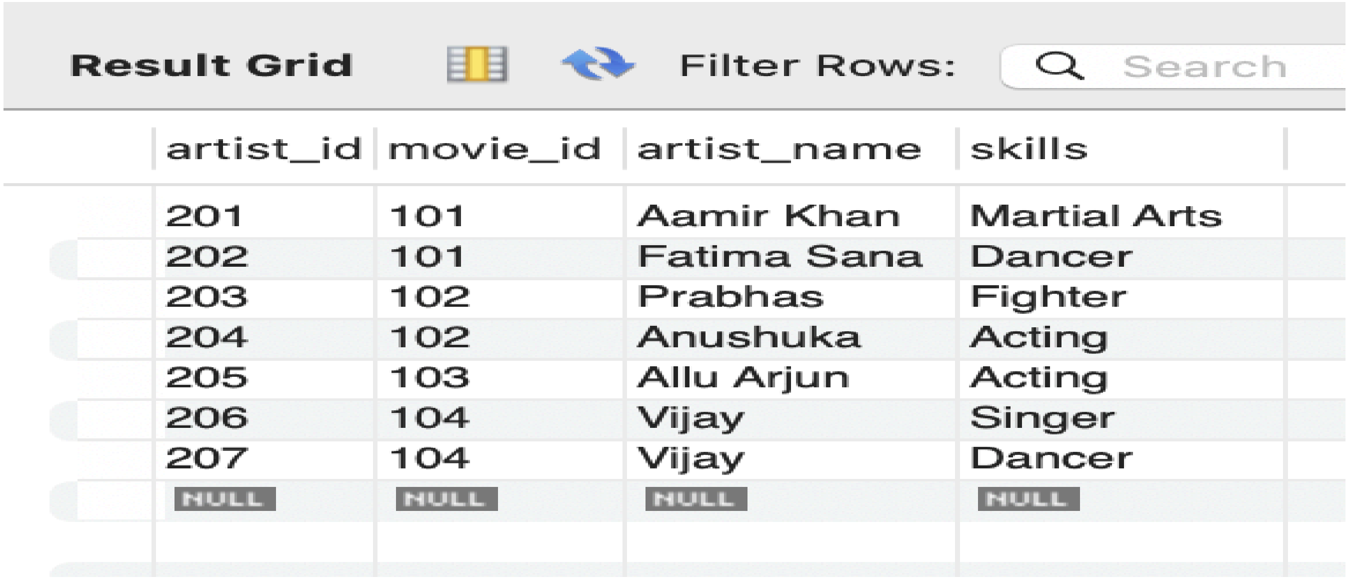
```
INSERT INTO reviews(user_id,comments) VALUES
(111,'DANGAL is a masterpiece'),
(112,'Baahubali2 is the finest film to come out of the film industry in a long time'),
(113,'Leo flashback segments seemed unconvincing, which affected the second half'),
(111,'Vijay delivers a commendable performance in both of his roles'),
(113,'Allu Arjun is so powerful that it looks like there is no real antagonist');
```

```
 SELECT * FROM reviews;
```



review_id	user_id	comments
1	111	DANGAL is a masterpiece
2	112	Baahubali2 is the finest film to come out of the film industry in a long time
3	113	Leo flashback segments seemed unconvincing, which affected the second half
4	111	Vijay delivers a commendable performance in both of his roles
5	113	Allu Arjun is so powerful that it looks like there is no real antagonist
NULL	NULL	NULL

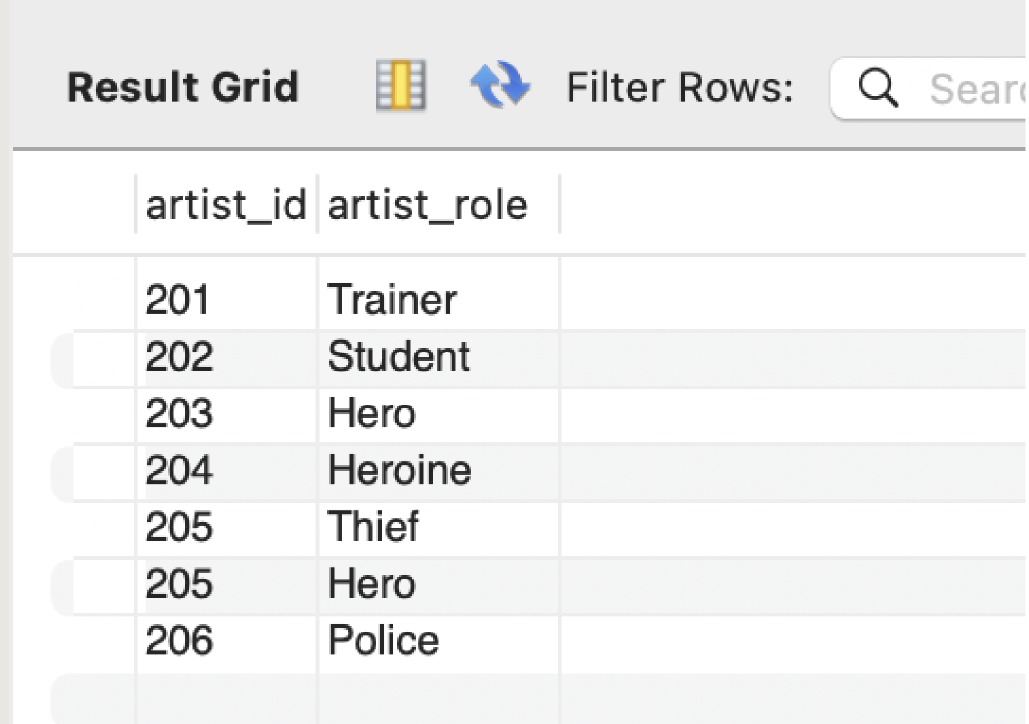
```
CREATE TABLE artist(
artist_id INT PRIMARY KEY,
movie_id INT,
artist_name VARCHAR(100),
skills VARCHAR(100),
FOREIGN KEY(movie_id) REFERENCES movie(movie_id)
);

INSERT INTO artist(artist_id,movie_id,artist_name,skills) VALUES
(201,101,'Aamir Khan','Martial Arts'),
(202,101,'Fatima Sana','Dancer'),
(203,102,'Prabhas','Fighter'),
(204,102,'Anushuka','Acting'),
(205,103,'Allu Arjun','Acting'),
(206,104,'Vijay','Singer'),
(207,104,'Vijay','Dancer');

SELECT * FROM artist;
```



artist_id	movie_id	artist_name	skills
201	101	Aamir Khan	Martial Arts
202	101	Fatima Sana	Dancer
203	102	Prabhas	Fighter
204	102	Anushuka	Acting
205	103	Allu Arjun	Acting
206	104	Vijay	Singer
207	104	Vijay	Dancer
NULL	NULL	NULL	NULL

```
CREATE TABLE roles(
artist_id INT,
artist_role VARCHAR(100),
FOREIGN KEY(artist_id) REFERENCES artist(artist_id)
);
```

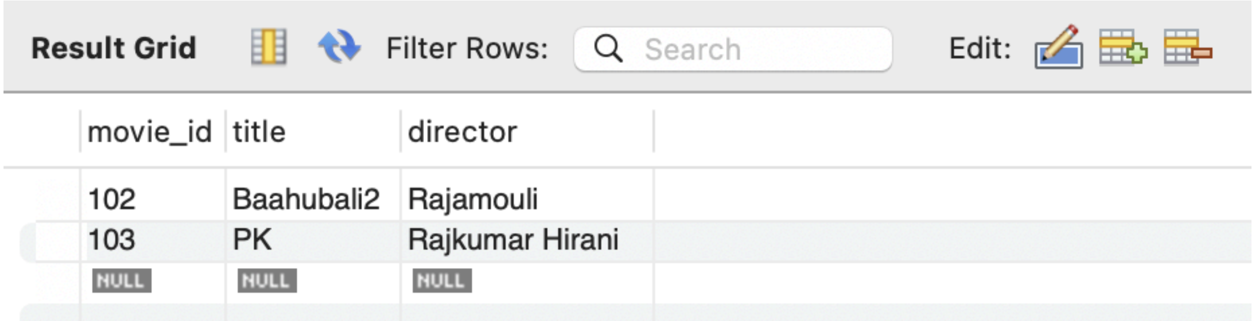
```
INSERT INTO roles(artist_id,artist_role) VALUES
(201,'Trainer'),
(202,'Student'),
(203,'Hero'),
(204,'Heroine'),
(205,'Thief'),
(205,'Hero'),
(206,'Police');

SELECT * FROM roles;
```



artist_id	artist_role
201	Trainer
202	Student
203	Hero
204	Heroine
205	Thief
205	Hero
206	Police

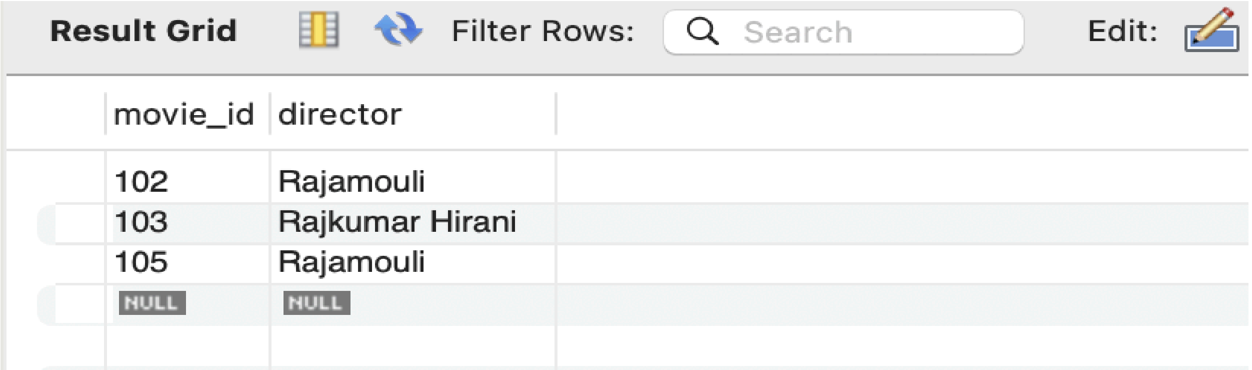
SQL Queries performed on the created tables:

SELECT movie_id,title,director from movie where release_year **IN (2014,2017);**



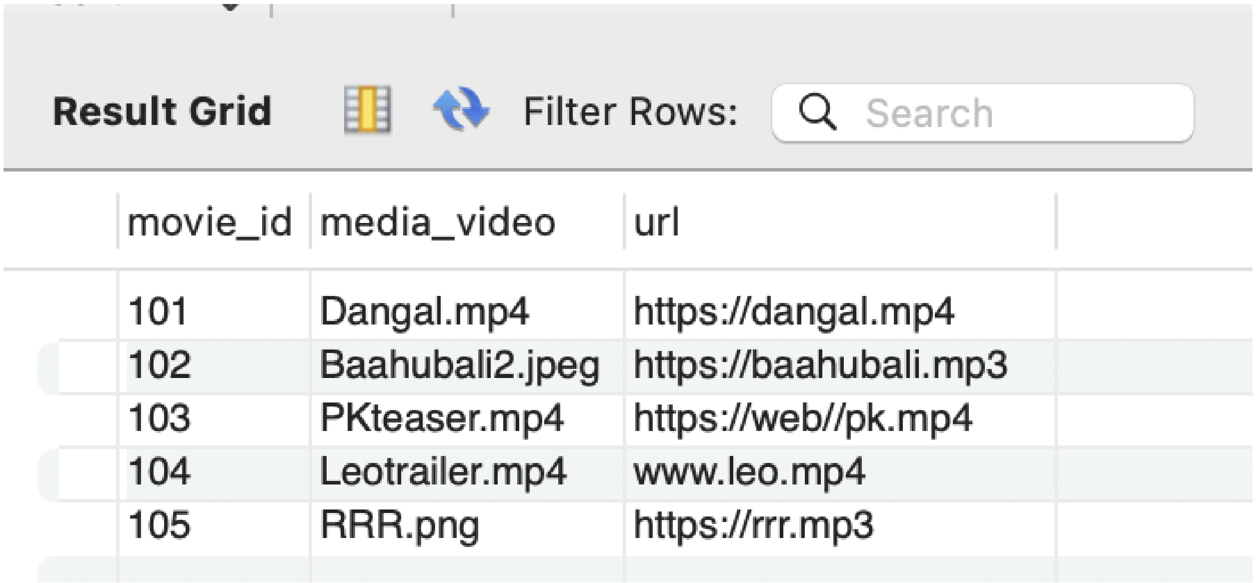
movie_id	title	director
102	Baahubali2	Rajamouli
103	PK	Rajkumar Hirani
NULL	NULL	NULL

SELECT movie_id,director from movie where director **LIKE 'R%';**



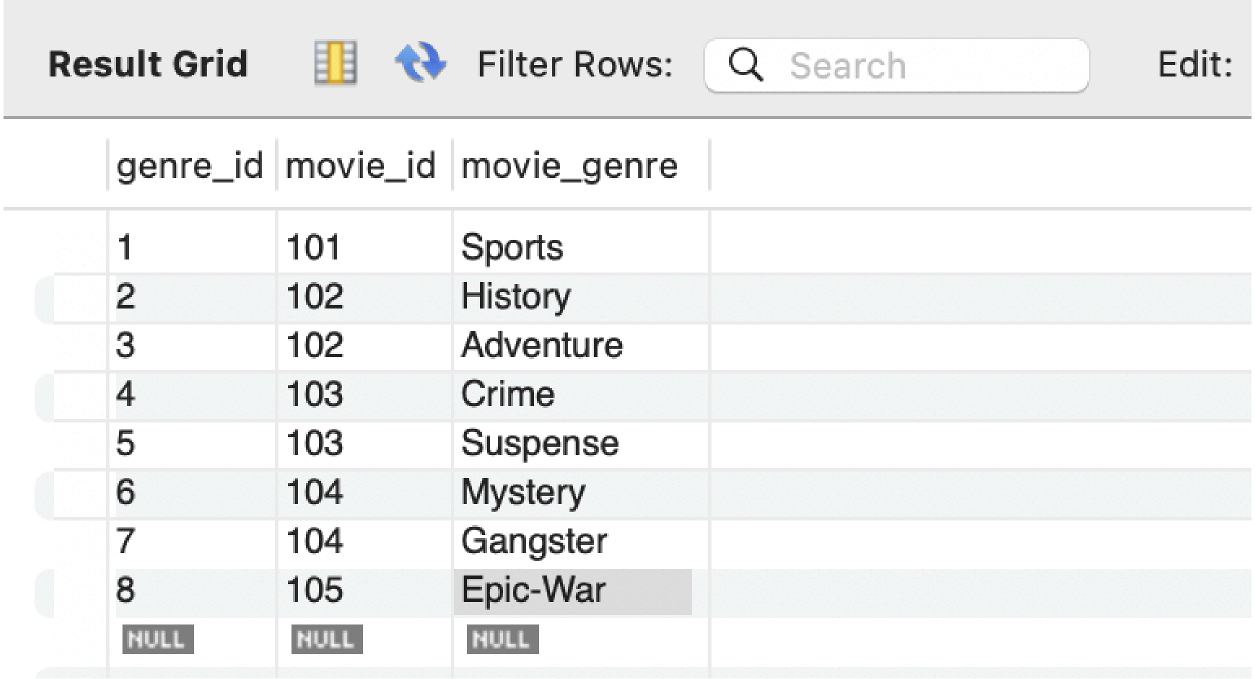
movie_id	director
102	Rajamouli
103	Rajkumar Hirani
105	Rajamouli
NULL	NULL

SELECT movie_id,**media_type as media_video, media_url as url** FROM media;



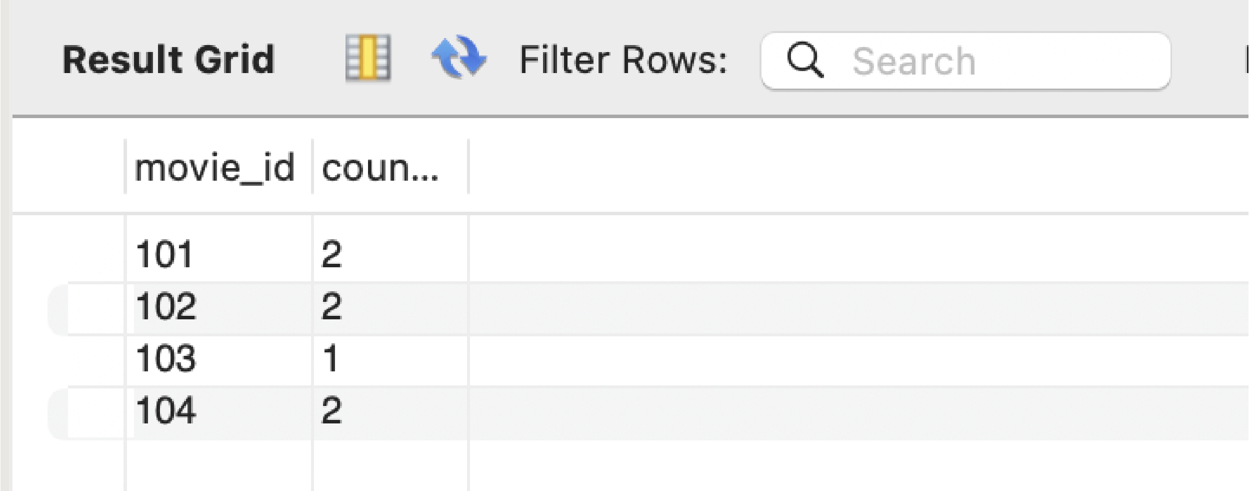
movie_id	media_video	url
101	Dangal.mp4	https://dangal.mp4
102	Baahubali2.jpeg	https://baahubali.mp3
103	PKteaser.mp4	https://web//pk.mp4
104	Leotrailer.mp4	www.leo.mp4
105	RRR.png	https://rrr.mp3

UPDATE genre set movie_genre='Epic-War' where movie_id=105;



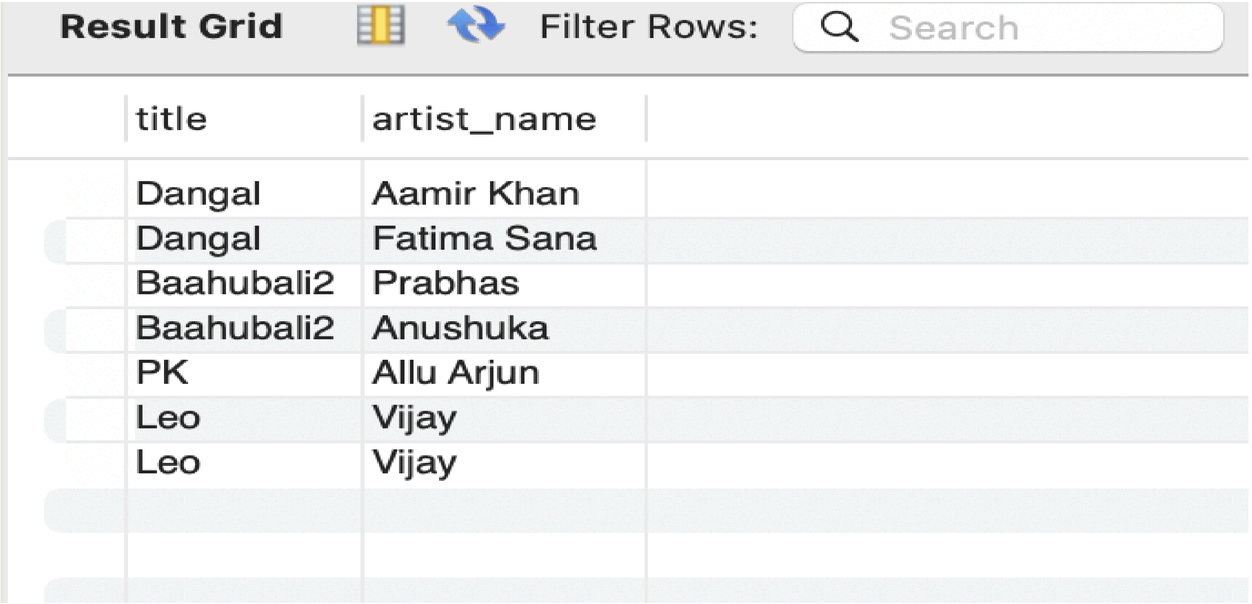
genre_id	movie_id	movie_genre
1	101	Sports
2	102	History
3	102	Adventure
4	103	Crime
5	103	Suspense
6	104	Mystery
7	104	Gangster
8	105	Epic-War
NULL	NULL	NULL

SELECT movie_id,**COUNT(*)** from artist **GROUP BY** movie_id;



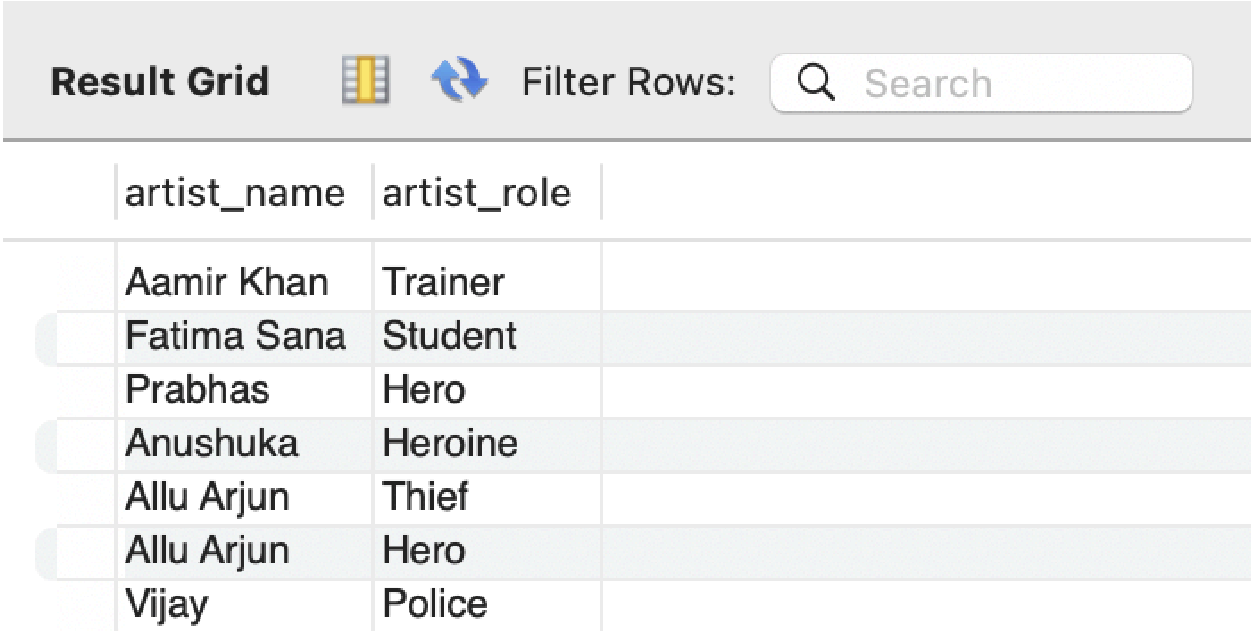
movie_id	coun...
101	2
102	2
103	1
104	2

```
Select title,artist_name from movie
INNER JOIN artist where movie.movie_id=artist.movie_id;
```



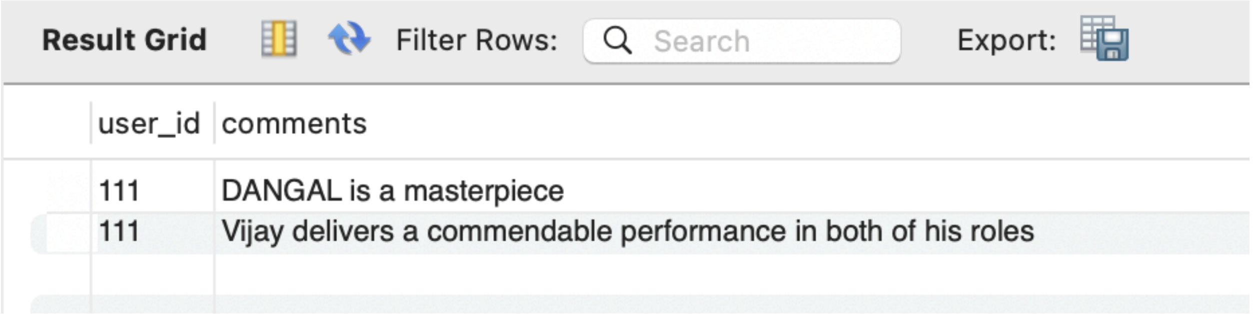
title	artist_name
Dangal	Aamir Khan
Dangal	Fatima Sana
Baahubali2	Prabhas
Baahubali2	Anushuka
PK	Allu Arjun
Leo	Vijay
Leo	Vijay

```
SELECT  artist_name, artist_role FROM artist
RIGHT JOIN roles on artist.artist_id=roles.artist_id;
```



artist_name	artist_role
Aamir Khan	Trainer
Fatima Sana	Student
Prabhas	Hero
Anushuka	Heroine
Allu Arjun	Thief
Allu Arjun	Hero
Vijay	Police

```
SELECT user_id,comments FROM reviews where user_id= (SELECT user_id from
user LIMIT 1);
```



```
user_id  comments
111      DANGAL is a masterpiece
111      Vijay delivers a commendable performance in both of his roles
```

```
DROP TABLE roles;  #deletes the entire table
DROP DATABASE IMDB; #deletes the entire database
```