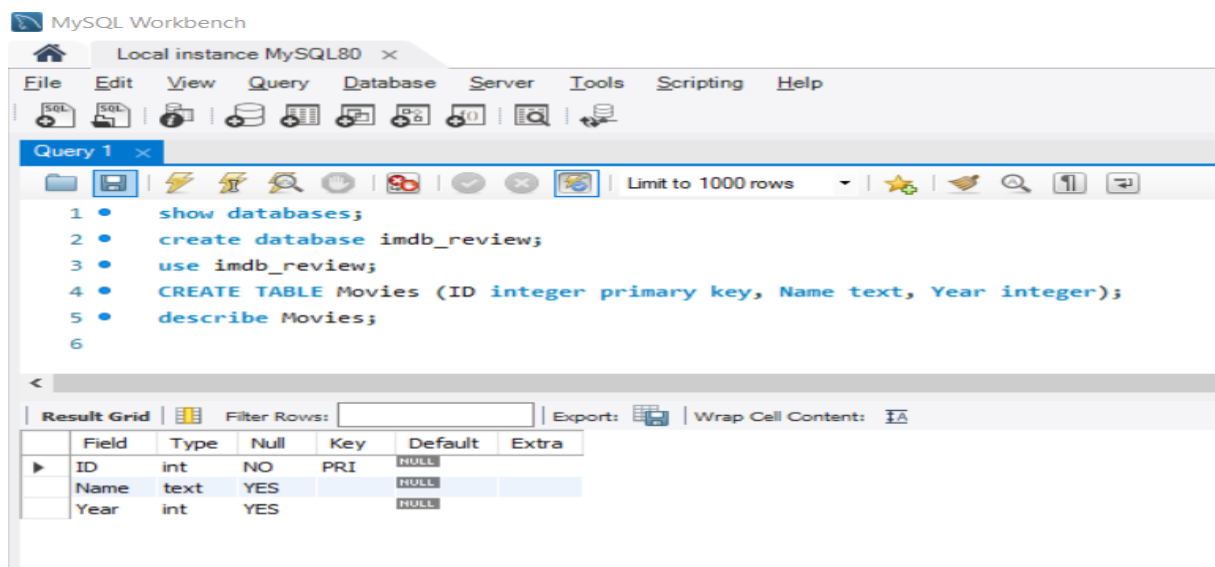


SQL TASK ON IMDb Ratings

```
show databases;  
create database imdb_review;  
use imdb_review;
```

1. Movie should have multiple media (Video or Image)

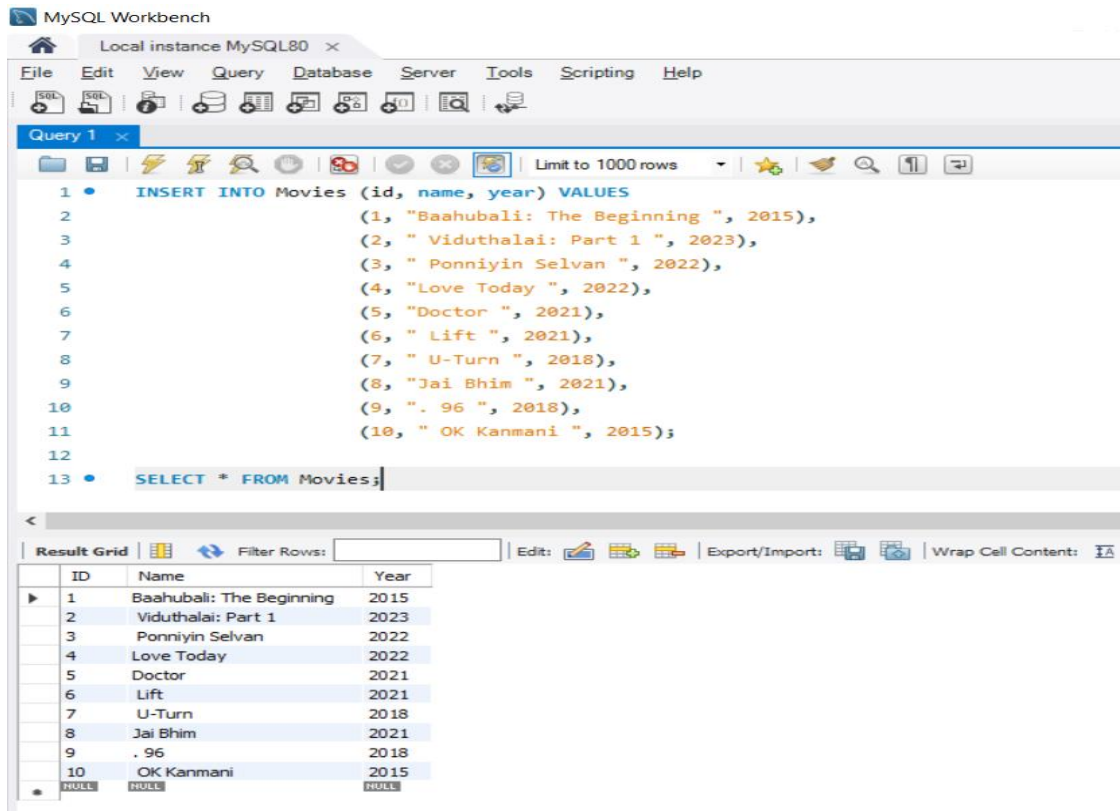
CREATE TABLE Movies (ID integer primary key, Name text, Year integer);



INSERT INTO Movies (id, name, year) VALUES

```
(1, "Baahubali: The Beginning ", 2015),  
(2, " Viduthalai: Part 1 ", 2023),  
(3, " Ponniyin Selvan ", 2022),  
(4, "Love Today ", 2022),  
(5, "Doctor ", 2021),  
(6, " Lift ", 2021),  
(7, " U-Turn ", 2018),  
(8, "Jai Bhim ", 2021),  
(9, ". 96 ", 2018),  
(10, " OK Kanmani ", 2015);
```

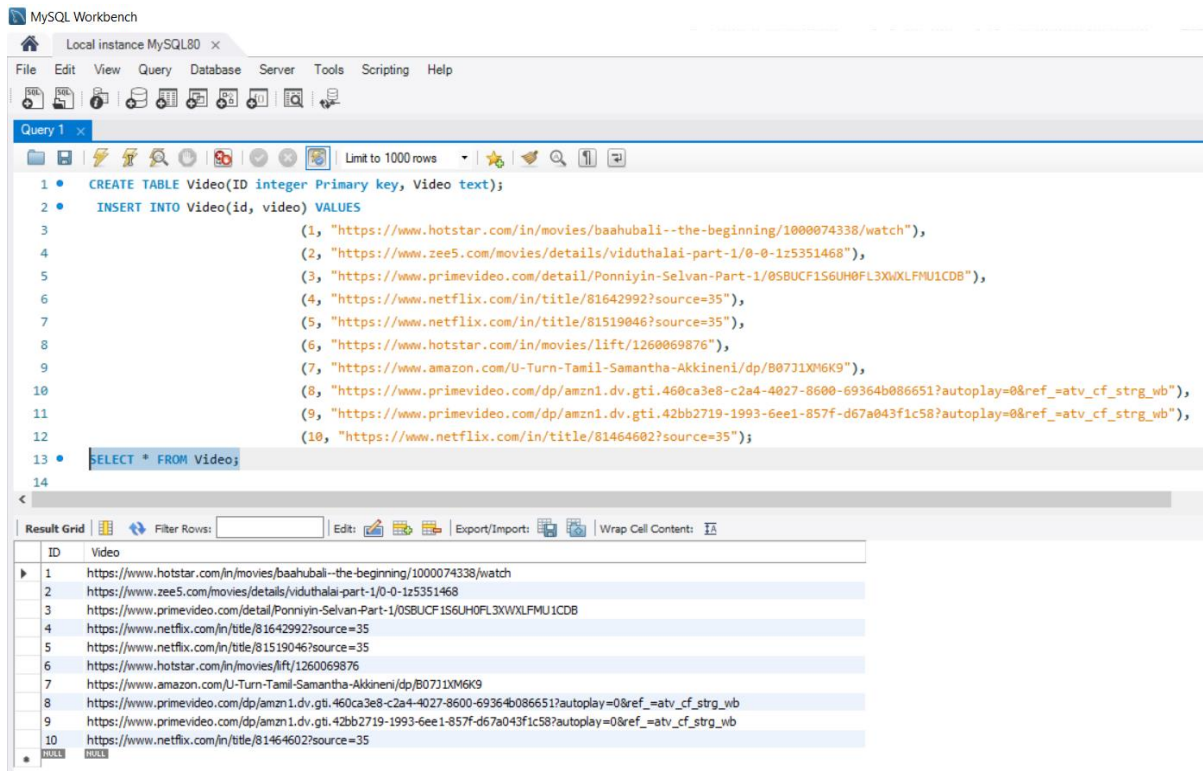
SELECT * FROM Movies;



```

CREATE TABLE Video(ID integer Primary key, Video text);
INSERT INTO Video(id, video) VALUES
    (1, "https://www.hotstar.com/in/movies/baahubali--the-
beginning/1000074338/watch"),
    (2, "https://www.zee5.com/movies/details/viduthalai-part-1/0-
0-1z5351468"),
    (3, "https://www.primevideo.com/detail/Ponniyin-Selvan-Part-
1/0SBUCF1S6UH0FL3XWXLFMU1CDB"),
    (4, "https://www.netflix.com/in/title/81642992?source=35"),
    (5, "https://www.netflix.com/in/title/81519046?source=35"),
    (6, "https://www.hotstar.com/in/movies/lift/1260069876"),
    (7, "https://www.amazon.com/U-Turn-Tamil-Samantha-
Akkineni/dp/B07J1XM6K9"),
    (8, "https://www.primevideo.com/dp/amzn1.dv.gti.460ca3e8-
c2a4-4027-8600-69364b086651?autoplay=0&ref_=atv_cf_strg_wb"),
    (9, "https://www.primevideo.com/dp/amzn1.dv.gti.42bb2719-
1993-6ee1-857f-d67a043f1c58?autoplay=0&ref_=atv_cf_strg_wb"),
    (10, "https://www.netflix.com/in/title/81464602?source=35");
SELECT * FROM Video;

```



CREATE TABLE Images(ID integer Primary key, Images text);

INSERT INTO Images (id, images) VALUES

(1, "

https://www.imdb.com/title/tt2631186/mediaviewer/rm1086436353?ref_=ttmi_mi_all_sf_46"),

(2, "

https://www.imdb.com/title/tt11396310/mediaviewer/rm2789616129?ref_=ttmi_mi_all_pos_31 "),

(3, "

https://www.imdb.com/title/tt10701074/mediaviewer/rm3969647361?ref_=ttmi_mi_all_pos_23 "),

(4, "

https://www.imdb.com/title/tt22488728/mediaviewer/rm3084584705?ref_=ttmi_mi_all_pos_4 "),

(5, "

https://www.imdb.com/title/tt11374902/mediaviewer/rm1869727745?ref_=ttmi_mi_all_pos_38 "),

(6, "

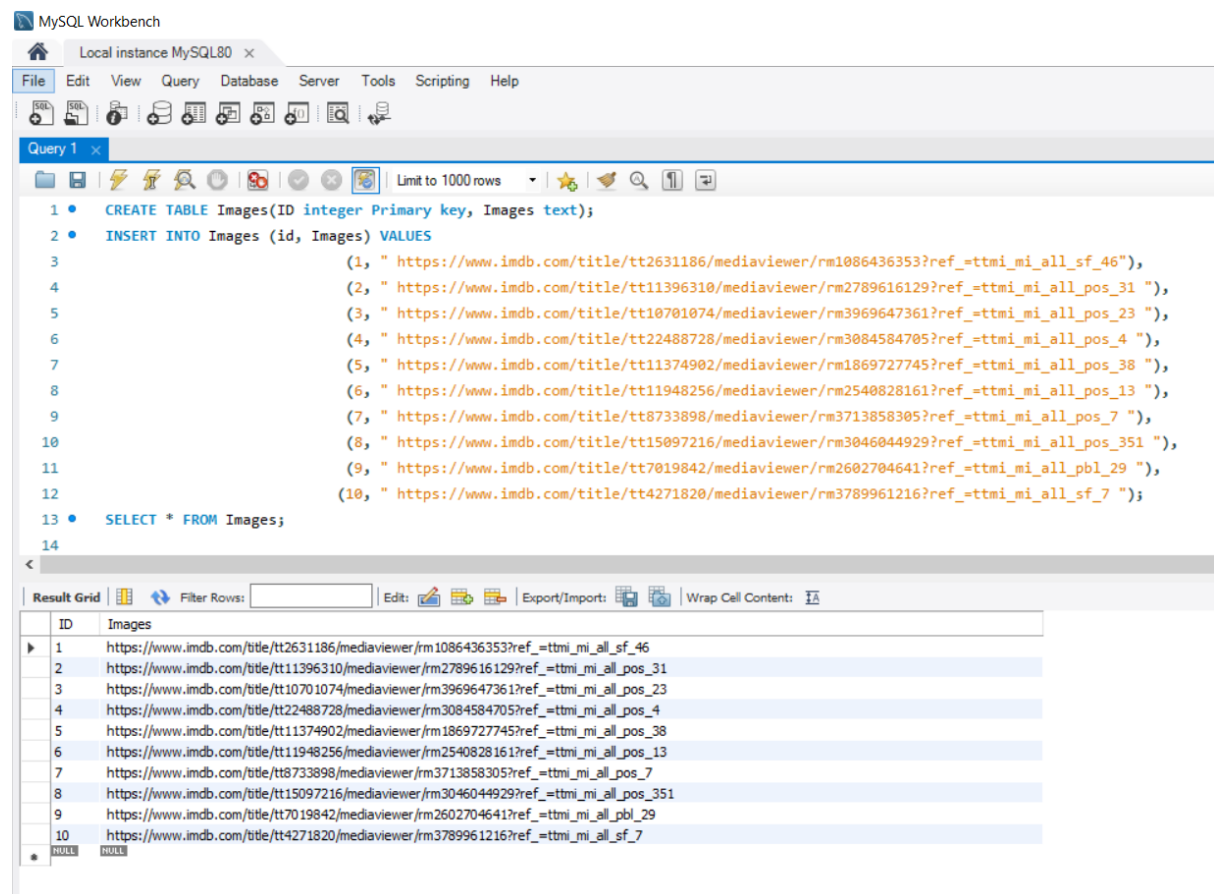
https://www.imdb.com/title/tt11948256/mediaviewer/rm2540828161?ref_=ttmi_mi_all_pos_13 "),

```

(7, "
https://www.imdb.com/title/tt8733898/mediaviewer/rm3713858305?ref_=ttmi_
mi_all_pos_7 "),
(8, "
https://www.imdb.com/title/tt15097216/mediaviewer/rm3046044929?ref_=ttmi
_mi_all_pos_351 "),
(9, "
https://www.imdb.com/title/tt7019842/mediaviewer/rm2602704641?ref_=ttmi_
mi_all_pbl_29 "),
(10, "
https://www.imdb.com/title/tt4271820/mediaviewer/rm3789961216?ref_=ttmi_
mi_all_sf_7 ");

```

SELECT * FROM Images;



The screenshot shows the MySQL Workbench interface. The query editor contains the following SQL code:

```

1 • CREATE TABLE Images(ID integer Primary key, Images text);
2 • INSERT INTO Images (id, Images) VALUES
3     (1, " https://www.imdb.com/title/tt2631186/mediaviewer/rm1086436353?ref_=ttmi_mi_all_sf_46"),
4     (2, " https://www.imdb.com/title/tt11396310/mediaviewer/rm2789616129?ref_=ttmi_mi_all_pos_31 "),
5     (3, " https://www.imdb.com/title/tt10701074/mediaviewer/rm3969647361?ref_=ttmi_mi_all_pos_23 "),
6     (4, " https://www.imdb.com/title/tt22488728/mediaviewer/rm3084584705?ref_=ttmi_mi_all_pos_4 "),
7     (5, " https://www.imdb.com/title/tt11374902/mediaviewer/rm1869727745?ref_=ttmi_mi_all_pos_38 "),
8     (6, " https://www.imdb.com/title/tt11948256/mediaviewer/rm2540828161?ref_=ttmi_mi_all_pos_13 "),
9     (7, " https://www.imdb.com/title/tt8733898/mediaviewer/rm3713858305?ref_=ttmi_mi_all_pos_7 "),
10    (8, " https://www.imdb.com/title/tt15097216/mediaviewer/rm3046044929?ref_=ttmi_mi_all_pos_351 "),
11    (9, " https://www.imdb.com/title/tt7019842/mediaviewer/rm2602704641?ref_=ttmi_mi_all_pbl_29 "),
12    (10, " https://www.imdb.com/title/tt4271820/mediaviewer/rm3789961216?ref_=ttmi_mi_all_sf_7 ");
13 • SELECT * FROM Images;
14

```

The Results Grid shows the following data:

ID	Images
1	https://www.imdb.com/title/tt2631186/mediaviewer/rm1086436353?ref_=ttmi_mi_all_sf_46
2	https://www.imdb.com/title/tt11396310/mediaviewer/rm2789616129?ref_=ttmi_mi_all_pos_31
3	https://www.imdb.com/title/tt10701074/mediaviewer/rm3969647361?ref_=ttmi_mi_all_pos_23
4	https://www.imdb.com/title/tt22488728/mediaviewer/rm3084584705?ref_=ttmi_mi_all_pos_4
5	https://www.imdb.com/title/tt11374902/mediaviewer/rm1869727745?ref_=ttmi_mi_all_pos_38
6	https://www.imdb.com/title/tt11948256/mediaviewer/rm2540828161?ref_=ttmi_mi_all_pos_13
7	https://www.imdb.com/title/tt8733898/mediaviewer/rm3713858305?ref_=ttmi_mi_all_pos_7
8	https://www.imdb.com/title/tt15097216/mediaviewer/rm3046044929?ref_=ttmi_mi_all_pos_351
9	https://www.imdb.com/title/tt7019842/mediaviewer/rm2602704641?ref_=ttmi_mi_all_pbl_29
10	https://www.imdb.com/title/tt4271820/mediaviewer/rm3789961216?ref_=ttmi_mi_all_sf_7

```

SELECT Movies.ID, Name, Year, Images, Video
FROM Movies
INNER JOIN Video
ON Movies.ID = Video.ID
INNER JOIN Images
ON Movies.ID = Images.ID;

```

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Query 1

```

1 SELECT Movies.ID, Name, Year, Images, Video
2 FROM Movies
3 INNER JOIN Video
4 ON Movies.ID = Video.ID
5 INNER JOIN Images
6 ON Movies.ID = Images.ID;
7

```

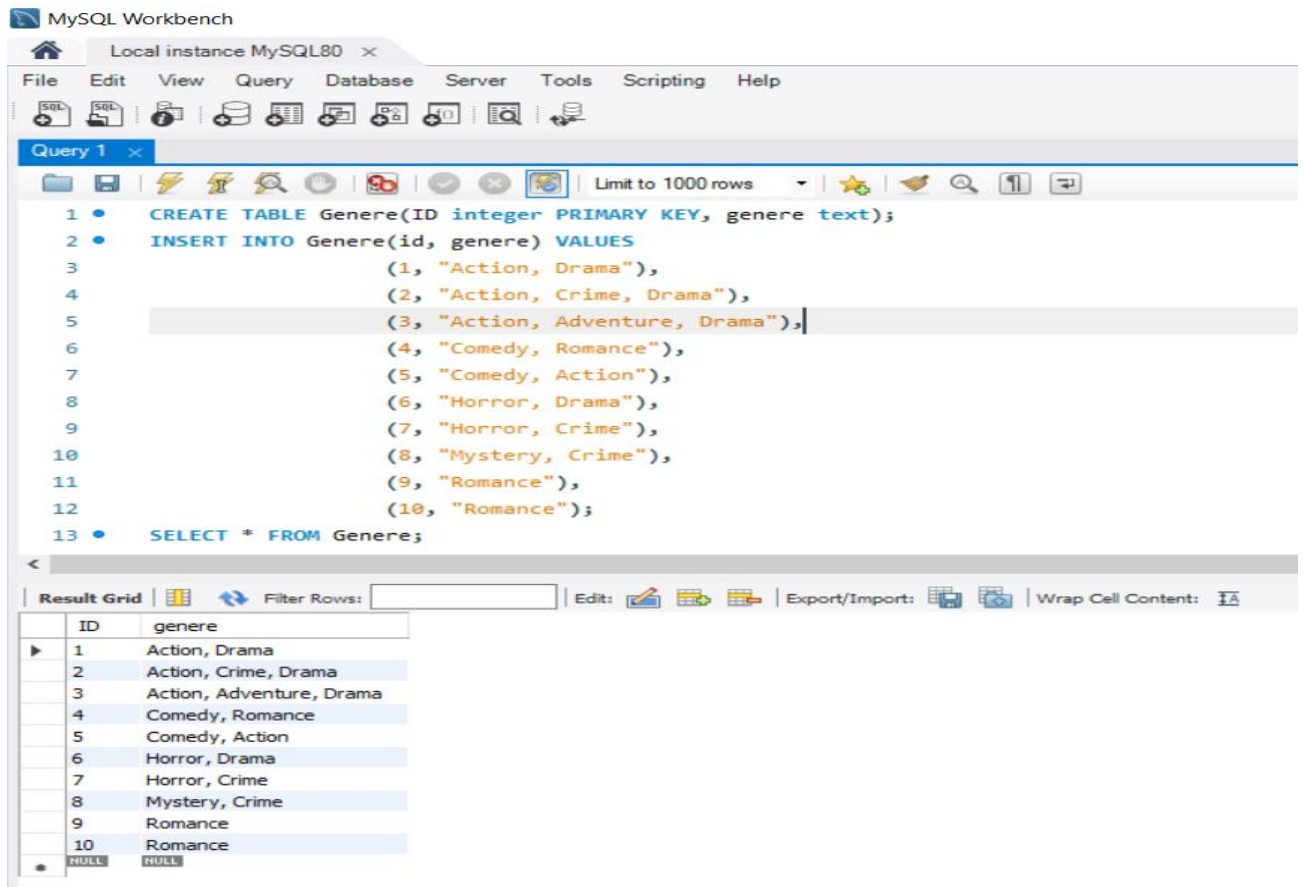
Result Grid

ID	Name	Year	Images	Video
1	Baahubali: The Beginning	2015	https://www.imdb.com/title/tt2631186/mediaviewer/rm1086436353?ref_=ttmi_mi_all_sf_46	https://www.hotstar.com/in/movies/baahubali-the-beginning/1000074338/watch
2	Viduthalai: Part 1	2023	https://www.imdb.com/title/tt11396310/mediaviewer/rm2789616129?ref_=ttmi_mi_all_pos_31	https://www.zee5.com/movies/details/viduthalai-part-1/0-0-1z5351468
3	Ponniyin Selvan	2022	https://www.imdb.com/title/tt10701074/mediaviewer/rm3969647361?ref_=ttmi_mi_all_pos_23	https://www.primevideo.com/detail/Ponniyin-Selvan-Part-1/0SBUJF1S6LH0FL3XVXLFMU1CDB
4	Love Today	2022	https://www.imdb.com/title/tt22488728/mediaviewer/rm3084584705?ref_=ttmi_mi_all_pos_4	https://www.netflix.com/in/title/81642992?source=35
5	Doctor	2021	https://www.imdb.com/title/tt11374902/mediaviewer/rm1869727745?ref_=ttmi_mi_all_pos_38	https://www.netflix.com/in/title/81519046?source=35
6	Lift	2021	https://www.imdb.com/title/tt11948256/mediaviewer/rm2540828161?ref_=ttmi_mi_all_pos_13	https://www.hotstar.com/in/movies/lift/1260069876
7	U-Turn	2018	https://www.imdb.com/title/tt8733898/mediaviewer/rm3713858305?ref_=ttmi_mi_all_pos_7	https://www.amazon.com/U-Turn-Tamil-Samantha-Akkineni/dp/B0711XM6K9
8	Jai Bhim	2021	https://www.imdb.com/title/tt15097216/mediaviewer/rm3046044929?ref_=ttmi_mi_all_pos_351	https://www.primevideo.com/dp/amzn1.dv.gti.460ca3e8-c2a4-4027-8600-69364b086651?autoplay=0&ref_=atv_cf_strg_wb
9	.96	2018	https://www.imdb.com/title/tt7019842/mediaviewer/rm2602704641?ref_=ttmi_mi_all_pos_29	https://www.primevideo.com/dp/amzn1.dv.gti.42bb2719-1993-6ee1-857f-d67a043f1c58?autoplay=0&ref_=atv_cf_strg_wb
10	OK Kanmani	2015	https://www.imdb.com/title/tt4271820/mediaviewer/rm3789961216?ref_=ttmi_mi_all_sf_7	https://www.netflix.com/in/title/81464602?source=35

```

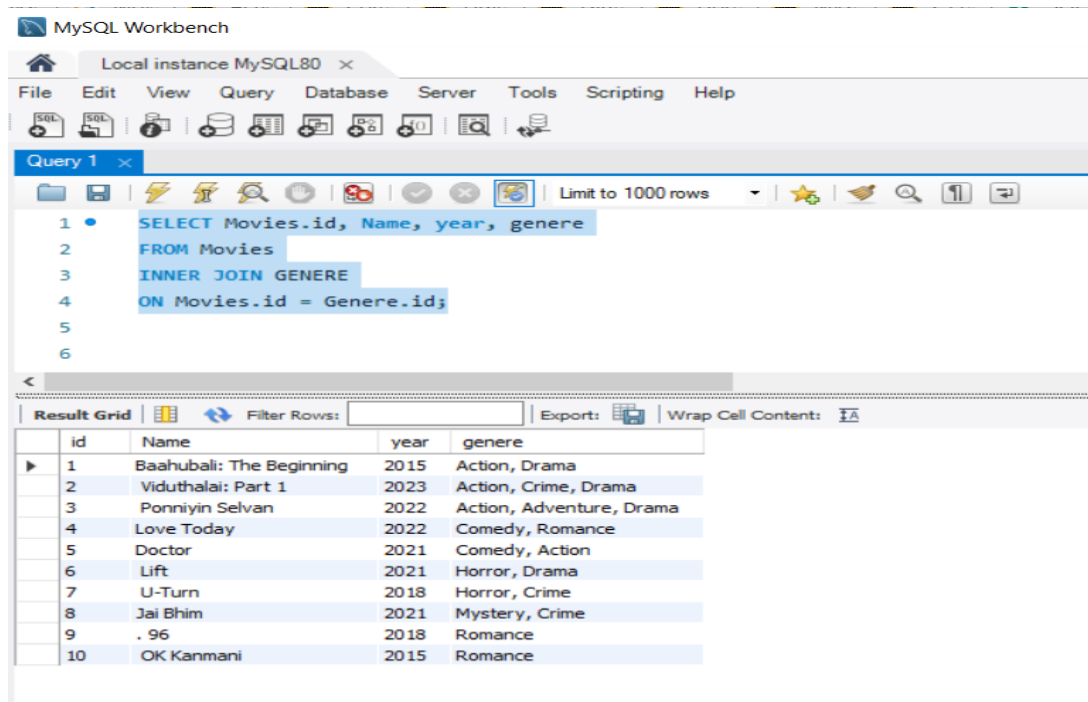
CREATE TABLE Genere(ID integer PRIMARY KEY, genere text);
INSERT INTO Genere(id, genere) VALUES
(1, "Action, Drama"),
(2, "Action, Crime, Drama"),
(3, "Action, Adventure, Drama"),
(4, "Comedy, Romance"),
(5, "Comedy, Action"),
(6, "Horror, Drama"),
(7, "Horror, Crime"),
(8, "Mystery, Crime"),
(9, "Romance"),
(10, "Romance");
SELECT * FROM Genere;

```



2. Movie can belong to multiple Genre

```
SELECT Movies.id, Name, year, genre
FROM Movies
INNER JOIN GENRE
ON Movies.id = Genre.id;
```



3. Movie can have multiple reviews and Review can belongs to a user

CREATE TABLE Review(ID Integer PRIMARY KEY, movieId integer, Review text);

INSERT INTO Review(id, movieId, Review) Values

(1, 1, "Fantastic"),
 (2, 1, "Awesome"),
 (3, 2, "Superb"),
 (4, 3, "Excellent"),
 (5, 4, "Good"),
 (6, 5, "Awesome"),
 (7, 5, "Fantastic"),
 (8, 6, "Good"),
 (9, 7, "Excellent"),
 (10, 8, "Superb"),
 (11, 8, "Good"),
 (12, 8, "Excellent"),
 (13, 9, "Fantastic"),
 (14, 10, "Awesome"),
 (15, 10, "Fantastic");

SELECT * FROM Review;

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Query 1 x

Limit to 1000 rows

```

1 CREATE TABLE Review(ID Integer PRIMARY KEY, movieId integer, Review text);
2 • INSERT INTO Review(id, movieId, Review) Values
3     (1, 1, "Fantastic"),
4     (2, 1, "Awesome"),
5     (3, 2, "Superb"),
6     (4, 3, "Excellent"),
7     (5, 4, "Good"),
8     (6, 5, "Awesome"),
9     (7, 5, "Fantastic"),
10    (8, 6, "Good"),
11    (9, 7, "Excellent"),
12    (10, 8, "Superb"),

```

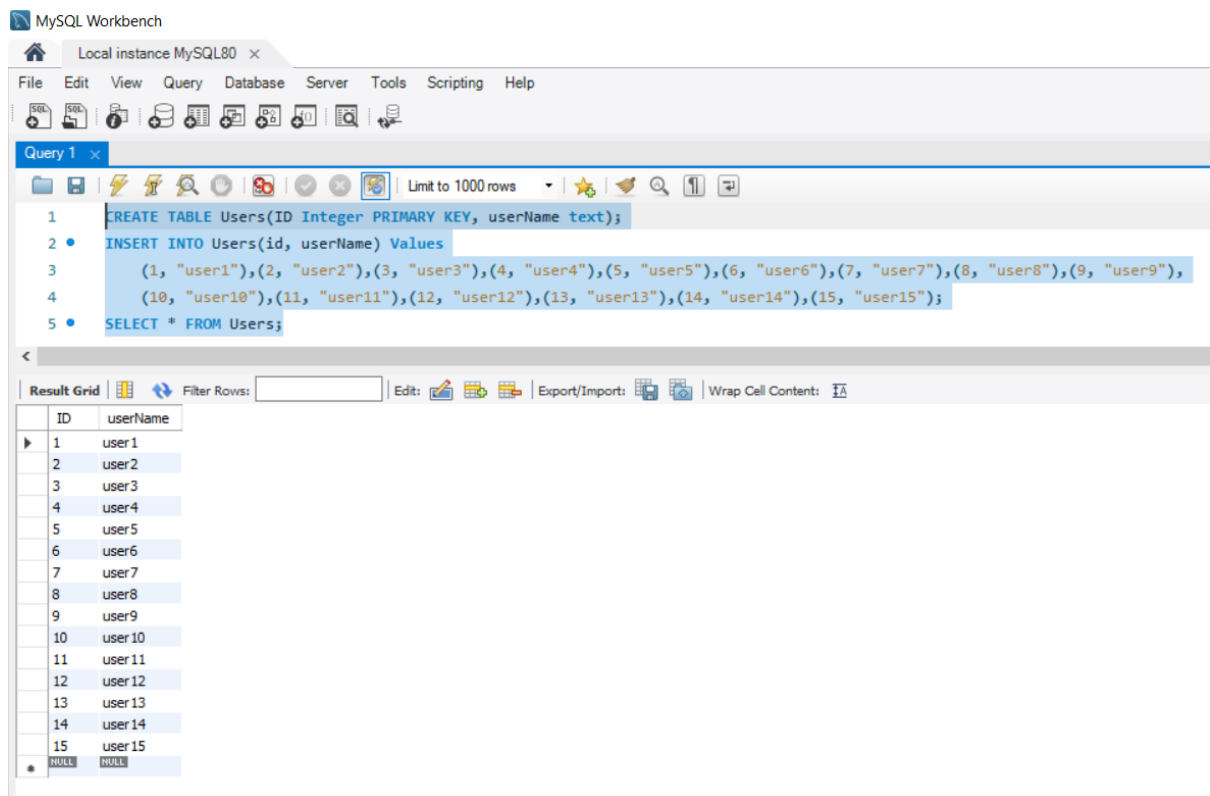
Result Grid

	ID	movieId	Review
▶	1	1	Fantastic
	2	1	Awesome
	3	2	Superb
	4	3	Excellent
	5	4	Good
	6	5	Awesome
	7	5	Fantastic
	8	6	Good
	9	7	Excellent
	10	8	Superb
	11	8	Good
	12	8	Excellent
	13	9	Fantastic
	14	10	Awesome
	15	10	Fantastic
*	NULL	NULL	NULL

```

CREATE TABLE Users(ID Integer PRIMARY KEY, userName text);
INSERT INTO Users(id, userName) Values
    (1, "user1"),(2, "user2"),(3, "user3"),(4, "user4"),(5, "user5"),(6,
"user6"),(7, "user7"),(8, "user8"),(9, "user9"),(10, "user10"),(11, "user11"),(12,
"user12"),(13, "user13"),(14, "user14"),(15, "user15");
SELECT * FROM Users;

```

SELECT Review.id, Name, Year, Review, userName
FROM Movies
INNER JOIN Review
on Movies.id = Review.movieId
INNER JOIN Users
on Review.id = Users.id;

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Query 1

```

1 SELECT Review.id, Name, Year, Review, userName
2 FROM Movies
3 INNER JOIN Review
4 on Movies.id = Review.movieId
5 INNER JOIN Users
6 on Review.id = Users.id;

```

Limit to 1000 rows

Result Grid

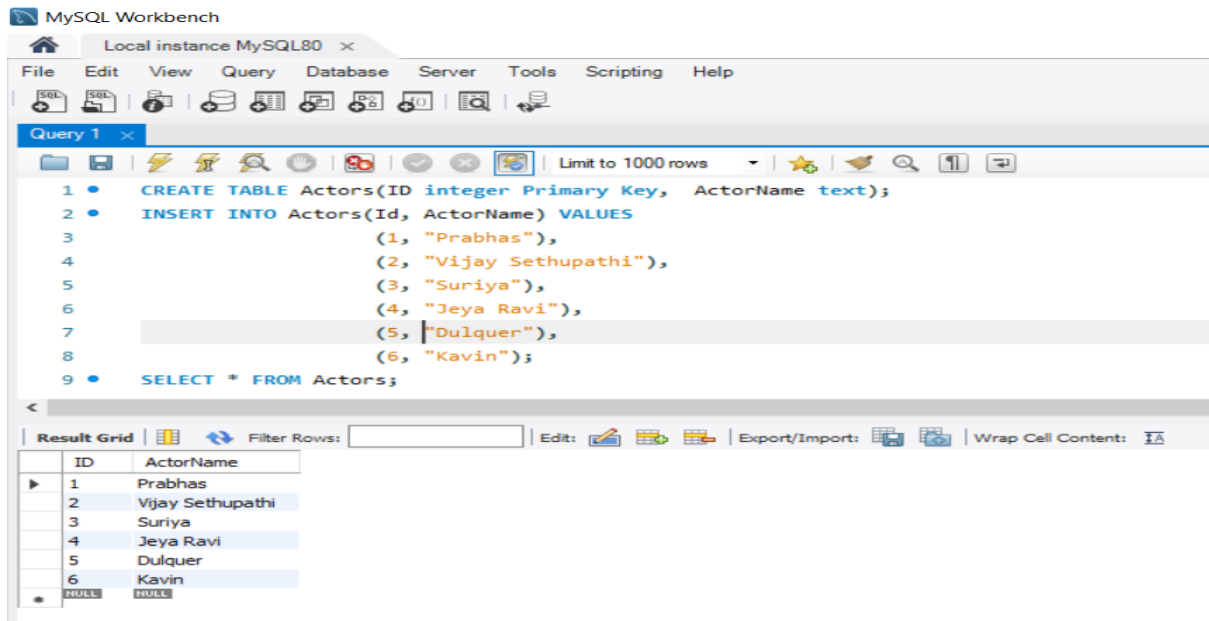
	id	Name	Year	Review	userName
1	1	Baahubali: The Beginning	2015	Fantastic	user1
2	2	Baahubali: The Beginning	2015	Awesome	user2
3	3	Viduthalai: Part 1	2023	Superb	user3
4	4	Ponniyin Selvan	2022	Excellent	user4
5	5	Love Today	2022	Good	user5
6	6	Doctor	2021	Awesome	user6
7	7	Doctor	2021	Fantastic	user7
8	8	Lift	2021	Good	user8
9	9	U-Turn	2018	Excellent	user9
10	10	Jai Bhim	2021	Superb	user10
11	11	Jai Bhim	2021	Good	user11
12	12	Jai Bhim	2021	Excellent	user12
13	13	. 96	2018	Fantastic	user13
14	14	OK Kanmani	2015	Awesome	user14
15	15	OK Kanmani	2015	Fantastic	user15

Artist can have multiple skills

CREATE TABLE Actors(ID integer Primary Key, ActorName text);
 INSERT INTO Actors(Id, ActorName) VALUES

(1, "Prabhas"),
 (2, "Vijay Sethupathi"),
 (3, "Suriya"),
 (4, "Jeya Ravi"),
 (5, "Dulquer"),
 (6, "Kavin");

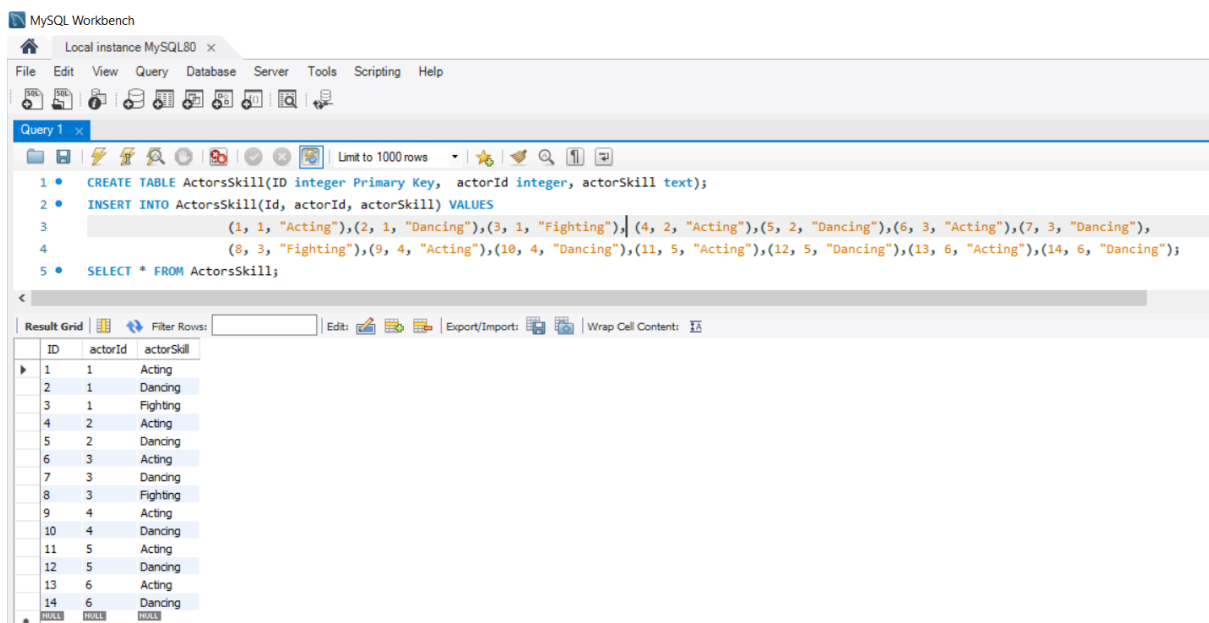
SELECT * FROM Actors;



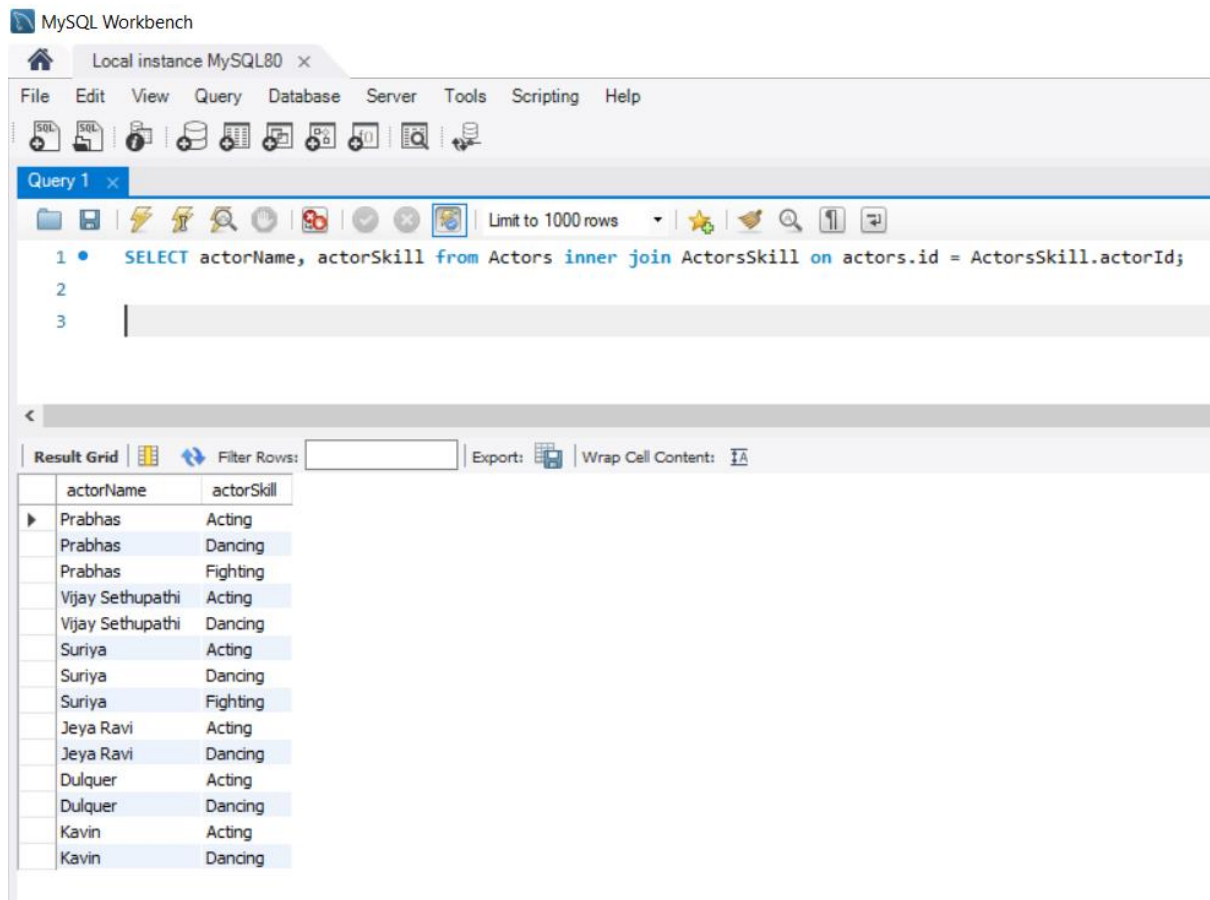
```

CREATE TABLE ActorsSkill(ID integer Primary Key, actorId integer,
actorSkill text);
INSERT INTO ActorsSkill(Id, actorId, actorSkill) VALUES
    (1, 1, "Acting"),(2, 1, "Dancing"),(3, 1, "Fighting"), (4, 2,
"Acting"),(5, 2, "Dancing"),(6, 3, "Acting"),(7, 3, "Dancing"), (8, 3,
"Fighting"),(9, 4, "Acting"),(10, 4, "Dancing"),(11, 5, "Acting"),(12, 5,
"Dancing"),(13, 6, "Acting"),(14, 6, "Dancing");
SELECT * FROM ActorsSkill;

```



```
SELECT actorName, actorSkill from Actors inner join ActorsSkill on actors.id = ActorsSkill.actorId;
```



5. Artist can perform multiple role in a single film

```
CREATE TABLE ACTOR_ROLE(ID integer Primary Key, movieId integer, actorId integer, actorRole text);
```

```
INSERT INTO ACTOR_ROLE(id, movieId, actorId, actorRole) VALUES
```

```
(1, 1, 1, "Father"),
```

```
(2, 1, 1, "Son"),
```

```
(3, 3, 4, "King"),
```

```
(4, 3, 4, "Soldier"),
```

```
(5, 3, 4, "Fighter");
```

```
SELECT * FROM ACTOR_ROLE;
```

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Query 1 x

Limit to 1000 rows

```

1 • CREATE TABLE ACTOR_ROLE(ID integer Primary Key, movieId integer, actorId integer, actorRole text);
2 • INSERT INTO ACTOR_ROLE(id, movieId, actorId, actorRole) VALUES
3       (1, 1, 1, "Father"),
4       (2, 1, 1, "Son"),
5       (3, 3, 4, "King"),
6       (4, 3, 4, "Soldier"),
7       (5, 3, 4, "Fighter");
8 • SELECT * FROM ACTOR_ROLE;

```

Result Grid

	ID	movieId	actorId	actorRole
1	1	1	1	Father
2	2	1	1	Son
3	3	3	4	King
4	4	3	4	Soldier
5	5	3	4	Fighter
*	NULL	NULL	NULL	NULL

SELECT name, year, actorName, actorRole
 FROM Movies
 INNER JOIN Actors
 ON actors.id = movies.id
 INNER JOIN actor_role
 ON movies.id = actor_role.movieId;

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Query 1 x

Limit to 1000 rows

```

1 • SELECT name, year, actorName, actorRole from Movies INNER JOIN Actors ON actors.id = movies.id INNER JOIN actor_role ON movies.id = actor_role.movieId;
2

```

Result Grid

	name	year	actorName	actorRole
1	Baahubali: The Beginning	2015	Prabhas	Father
2	Baahubali: The Beginning	2015	Prabhas	Son
3	Ponniyin Selvan	2022	Suriya	King
4	Ponniyin Selvan	2022	Suriya	Soldier
5	Ponniyin Selvan	2022	Suriya	Fighter