IMDB Database:

Creating IMDB Database:

```
MariaDB [(none)]> create database IMDB
    -> create database IMDB:
ERROR 1064 (42000): You have an error in you
MariaDB [(none)]> create database IMDB;
Query OK, 1 row affected (0.004 sec)
MariaDB [(none)]> show databases;
[ | Database
  IMDB
  information_schema
  mysql
[| performance_schema
  test
6 rows in set (0.002 sec)
MariaDB [(none)]> use IMDB;
No connection. Trying to reconnect...
Connection id:
Current database: *** NONE ***
Database changed
```

Creating Tables:

Movies Table

```
MariaDB [IMDB]> CREATE TABLE movies(movie_id int AUTO_INCREMENT PRIMARY KEY, movie_name VARCHAR(200), year INT);

Query OK, 0 rows affected (0.041 sec)

MariaDB [IMDB]> INSERT INTO movies(movie_name, year)VALUES ('Inception', 2010),

-> ('The Dark Knight', 2008),
-> ('Interstellar', 2014),
-> ('The Matrix', 1999),
-> ('Titanic', 1997),
-> ('Avatar', 2009),

[-> ('The Godfather', 1972),
-> ('Gladiator', 2000),
-> ('Pulp Fiction', 1994),
-> ('Fight Club', 1999);

Query OK, 10 rows affected (0.011 sec)

[Records: 10 Duplicates: 0 Warnings: 0
```

Media Table

[MariabB [IMDB]> CREATE TABLE media(media_id int AUTO_INCREMENT PRIMARY KEY, movie_id int, media_type VARCHAR(200), media_url VARCHAR(200), FOREIGN KEY (movie_id) REFERENCES movies(movie_id));
Query OK, 0 rows affected (0.028 sec)

```
MariaDB [IMDB]> IMSERT INTO media (movie_id, media_type, media_urnl) VALUES

-> (1, 'wideo', 'https://example.com/inception-poster.jpg'),
-> (1, 'video', 'https://example.com/inception-poster.jpg'),
-> (2, 'video', 'https://example.com/inception-poster.jpg'),
-> (2, 'video', 'https://example.com/inception-poster.jpg'),
-> (3, 'video', 'https://example.com/interstellar-poster.jpg'),
-> (4, 'video', 'https://example.com/interstellar-poster.jpg'),
-> (4, 'video', 'https://example.com/interstellar-poster.jpg'),
-> (5, 'video', 'https://example.com/interstellar-poster.jpg'),
-> (5, 'video', 'https://example.com/interstellar-poster.jpg'),
-> (6, 'video', 'https://example.com/interstellar-poster.jpg'),
-> (6, 'video', 'https://example.com/interstellar-poster.jpg'),
-> (7, 'video', 'https://example.com/avatr-poster.jpg'),
-> (7, 'video', 'https://example.com/godfather-poster.jpg'),
-> (9, 'image', 'https://example.com/godfather-trailer.mp4'),
-> (9, 'image', 'https://example.com/godfather-trailer.mp4'),
-> (9, 'image', 'https://example.com/godfather-trailer.mp4'),
-> (9, 'image', 'https://example.com/godfather-trailer.mp4'),
-> (10, 'image', 'https://exa
```

Genre Table

```
|MariaDB [IMDB]> CREATE TABLE genre(genre_id int AUTO_INCREMENT PRIMARY KEY, movie_id int, genre_type VARCHAR(200), FOREIGN KEY (movie_id) REFERENCES movies(movie_id));
Query OK, 0 rows affected (0.026 sec)
     riaDB (IMDB)> INSERT IN
-> (1, 'Sci-Fi'),
-> (1, 'Thriller'),
-> (2, 'Action'),
-> (2, 'Action'),
-> (3, 'Sci-Fi'),
-> (3, 'Sci-Fi'),
-> (4, 'Sci-Fi'),
-> (4, 'Sci-Fi'),
-> (6, 'Sci-Fi'),
-> (6, 'Sci-Fi'),
-> (6, 'Adetion'),
-> (6, 'Adventure'),
-> (7, 'Crime'),
-> (7, 'Crime'),
-> (8, 'Mation'),
-> (8, 'Mation'),
-> (8, 'Mation'),
-> (9, 'Drama'),
-> (8, 'Mistorical'),
-> (9, 'Drama'),
 MariaDB [IMDB]> INSERT INTO genre (movie_id, genre_type) VALUES
-> (8, 'Historical'),
-> (9, 'Drama'),
-> (9, 'Comedy'),
-> (10, 'Drama'),
[ -> (10, 'Thriller');
Query OK, 20 rows affected (0.004 sec)
Records: 20 Duplicates: 0 Warnings: 0
Reviews Table
MariaDB (IMDB)> CREATE TABLE reviews (review_id INT AUTO_INCREMENT PRIMARY KEY, movie_id INT,user_id INT,reviews TEXT, FOREIGN KEY (movie_id) REFERENCES movies(movie_id), FOREIGN KEY (user_id) REFERENCES user(user_id); Query OK, or rows affected (0.029 sec)
WariaBC [MuBD] NISERT INTO reviews (movie_id, user_id, reviews) VALUES

-> (1, 1, 'A mind-bending experience!'),
-> (1, 1, 'A mind-bending experience!'),
-> (2, 1, 'Reset superal receiver ("),
-> (3, 4, 'An emotional journey through space.'),
-> (4, 5, 'A revolutionary sci-fi film.'),
-> (6, 6, 'A beautiful love story.')
-> (6, 7, 'A visual masterpiece.'),
-> (8, 9, 'Epic action sequences.'),
-> (8, 9, 'Epic action sequences.'),
-> (9, 1, 'A deep and thought-provoking film.'),
-> (10, 1, 'An unforgettable tale of survival.');
Query (M, II rows affected (@.083 sec)
Records: 11 Duplicates: 0 Warnings: 0
User Table
[MariaDB [IMDB]> CREATE TABLE user(user_id INT AUTO_INCREMENT PRIMARY KEY, user_name VARCHAR(200));
 Query OK, 0 rows affected (0.029 sec)
 MariaDB [IMDB]> INSERT INTO user (user name) VALUES
           -> ('Alice Johnson'),
           -> ('Bob Smith'),
          -> ('Charlie Brown'),
          -> ('David Wilson'),
          -> ('Emma Davis')
          -> ('Frank Miller'),
          -> ('Grace Lee'),
          -> ('Henry Thomas')
          -> ('Isla Williams'),
          -> ('Jack Davis');
 Query OK, 10 rows affected (0.004 sec)
 Records: 10 Duplicates: 0 Warnings: 0
Artist Table
[MariaDB [IMDB]> CREATE TABLE artist(artist_id INT AUTO_INCREMENT PRIMARY KEY, artist_name VARCHAR(200));
 Query OK, 0 rows affected (0.029 sec)
 MariaDB [IMDB]> INSERT INTO artist (artist_name) VALUES
          -> ('Leonardo DiCaprio'),
          -> ('Christian Bale').
          -> ('Matthew McConaughey'),
          -> ('Keanu Reeves'),
          -> ('Kate Winslet'),
          -> ('Heath Ledger'),
          -> ('Anne Hathaway'),
          -> ('Tom Hardy'),
          -> ('Robert De Niro'),
          -> ('Russell Crowe');
 Query OK, 10 rows affected (0.004 sec)
 Records: 10 Duplicates: 0 Warnings: 0
```

Artist Skills Table

[MariaDB [IMDB]> CREATE TABLE artist_skills(skill_id INT AUTO_INCREMENT PRIMARY KEY, artist_id INT, skills VARCHAR(200), FOREIGN KEY (artist_id) REFERENCES artist(artist_id)); Query OK, 0 rows affected (0.026 sec)

```
Query OK, 0 rows affected (0.026 sec)

MariaDB [IMDB]> INSERT INTO artist_skills (artist_id, skills) VALUES

-> (1, 'Acting'),
-> (2, 'Acting'),
-> (2, 'Voice Acting'),
-> (3, 'Acting'),
-> (4, 'Acting'),
-> (6, 'Acting'),
-> (6, 'Acting'),
-> (7, 'Acting'),
-> (8, 'Acting'),
-> (9, 'Acting'),
-> (10, 'Acting'),
->
```

Artist Roles Table

MariabB (IMDB)> CREATE TABLE artist_roles(role_id INT AUTO_INCREMENT PRIMARY KEY, artist_id INT, movie_id INT, role VARCHAR(200), FOREIGN KEY (artist_id) REFERENCES artist(artist_id), FOREIGN KEY (movie_id) REFERENCES movias(movie_id)); Query OK, or owns affected (0.029 sec)

```
Query OK, 0 rows affected (0.020 sec)

MariaDR (IMDB): INSERT INTO artist_roles (artist_id, movie_id, role) VALUES

-> (1, 1, 'Cobb'),
-> (2, 2, 'Bruce Hayne'),
-> (3, 2, 'Neo'),
-> (5, 5, 'Rose DeWitt Bukater'),
-> (6, 5, 'Rose DeWitt Bukater'),
-> (7, 3, 'Brand'),
-> (8, 6, 'Jake Sully'),
-> (9, 7, 'Michael Corleone'),
-> (10, 7, 'Witchael Corleone'),
-> (10, 7, 'Vincent Vegan'),
-> (10, 7, 'Vincent Vegan'),
-> (11, 10, 'The Narrator')

Cuery OK, 12 rows affected (0.020 sec)

Records: 12 Duplicates: 0 Warnings: 0
```

All tables in IMDB:

8 rows in set (0.001 sec)

Movie should have multiple media (Video or Image):

[MariaDB [IMDB]> SELECT m.movie_id,m.movie_name,me.media_type FROM media me INNER JOIN movies m ON me.movie_id=m.movie_id;

+	+	++
movie_id	movie_name	media_type
1 1	Inception	image
i 1	Inception	video
i 2	The Dark Knight	image
2	The Dark Knight	video
j 3	Interstellar	image
j 3	Interstellar	video
4	The Matrix	image
4	The Matrix	video
5	Titanic	image
5	Titanic	video
6	Avatar	image
6	Avatar	video
7	The Godfather	image
7	The Godfather	video
8	Gladiator	image
8	Gladiator	video
9	Pulp Fiction	image
9	Pulp Fiction	video
10	Fight Club	image
10	Fight Club	video
+	+	++

20 rows in set (0.001 sec)

Movie can belong to multiple Genre:
[MariaDB [IMDB]> SELECT m.movie_id,m.movie_name,m.year, g.genre_type FROM movies m INNER JOIN genre g ON m.movie_id=g.movie_id;

movie_id	movie_name	year	genre_type
1	Inception	2010	Sci-Fi
1	Inception	2010	Thriller
j 2	The Dark Knight	2008	Action
j 2	The Dark Knight	2008	Crime
3	Interstellar	2014	Sci-Fi
3	Interstellar	2014	Drama
4	The Matrix	1999	Sci-Fi
4	The Matrix	1999	Action
5	Titanic	1997	Romance
5	Titanic	1997	Drama
6	Avatar	2009	Sci-Fi
6	Avatar	2009	Adventure
7	The Godfather	1972	Crime
7	The Godfather	1972	Drama
8	8 Gladiator		Action
8	Gladiator	2000	Historical
9	9 Pulp Fiction		Drama
9	Pulp Fiction	1994	Comedy
10	Fight Club	1999	Drama
10 Fight Club		1999	Thriller
+	+	+	++

20 rows in set (0.005 sec)

Movie can have multiple reviews, and Review can belong to a user:

MariaDB [IMDB]> SELECT m.movie_id,m.movie_name,r.reviews,u.user_name FROM movies m JOIN reviews r ON m.movie_id=r.movie_id JOIN user u ON r.user_id=u.user_id;

movie_id	movie_name	reviews	user_name
1	Inception	A mind-bending experience!	Alice Johnson
1	Inception	Incredible visual effects.	Bob Smith
2	The Dark Knight	The best superhero movie ever!	Charlie Brown
3	Interstellar	An emotional journey through space.	David Wilson
4	The Matrix	A revolutionary sci-fi film.	Emma Davis
5	Titanic	A beautiful love story.	Frank Miller
6	Avatar	A visual masterpiece.	Grace Lee
7	The Godfather	A classic that never gets old.	Henry Thomas
8	Gladiator	Epic action sequences.	Isla Williams
9	Pulp Fiction	A deep and thought-provoking film.	Jack Davis
10	Fight Club	An unforgettable tale of survival.	Alice Johnson

11 rows in set (0.002 sec)

Artist can have multiple skills:

[MariaDB [IMDB]> SELECT a.artist_name, s.skills FROM artist a INNER JOIN artist_skills s ON a.artist_id=s.artist_id;

artist_name	skills
Leonardo DiCaprio Leonardo DiCaprio Christian Bale Christian Bale Matthew McConaughey Keanu Reeves Kate Winslet Heath Ledger Anne Hathaway Tom Hardy Robert De Niro Russell Crowe Russell Crowe	Acting Producing Acting Voice Acting Acting
+	L

13 rows in set (0.001 sec)

Artist can perform multiple roles in a single film:

[MariaDB [IMDB]> SELECT m.movie_id, m.movie_name, a.artist_name, r.role FROM movies m JOIN artist_roles r ON m.movie_id=r.movie_id JOIN artist a ON r.artist_id=a.artist_id;

movie_id	movie_name	artist_name	role
1 1 2 3 4 1 5 1 2 1 3 1 1 1 1 1 1 1 1	Inception The Dark Knight Interstellar The Matrix Titanic The Dark Knight Interstellar Avatar The Godfather Gladiator Pulp Fiction Fight Club	Leonardo DiCaprio Christian Bale Matthew McConaughey Keanu Reeves Kate Winslet Heath Ledger Anne Hathaway Tom Hardy Robert De Niro Russell Crowe Russell Crowe Leonardo DiCaprio	Cobb Bruce Wayne Cooper Neo Rose Dewitt Bukater The Joker Brand Jake Sully Michael Corleone Maximus Decimus Meridius Vincent Vega The Narrator
			·

12 rows in set @ 002 sec)