

## COMMANDS:

### 1) INFILE ACCESS:

```
mysql -u myuser -p --local-infile pTest(Database Name);
```

```
SET GLOBAL local_infile = true;
```

2) create schema for the table and load the data using this command

### Exporting the SQL FILE:

```
/usr/local/mysql/bin/mysqldump -u root -p pTest > my_movie.sql
```

### Importing the SQL FILE:

```
/usr/local/mysql/bin/mysql -u root -p newData < my_movie.sql
```

## SCHEMA:

### -----MOVIE DATASET-----

```
CREATE TABLE movie
```

```
(
    movieID VARCHAR(10),
    primaryTitle VARCHAR(50),
    originalTitle VARCHAR(50),
    isAdult BOOLEAN,
    releaseYear INT(4),
    runtimeMinutes INT,
    averageRating FLOAT,
    numVotes INT,
    PRIMARY KEY(movieID)
);
```

```
LOAD DATA LOCAL INFILE
```

```
"/Users/viraj1604/Documents/Final_Datasets/movie.tsv" INTO TABLE
movie IGNORE 1 ROWS;
```

### -----SERIES DATASET-----

```
CREATE TABLE series
```

```
(
    seriesID VARCHAR(10),
    primaryTitle VARCHAR(50),
```

```
        originalTitle VARCHAR(50),
        isAdult BOOLEAN,
        startYear INT,
        averageRating FLOAT,
        numVotes INT,
        PRIMARY KEY(seriesID)
    );
```

```
LOAD DATA LOCAL INFILE
"/Users/viraj1604/Documents/Final_Datasets/Series.tsv" INTO TABLE
series IGNORE 1 ROWS;
```

## -----EPISODE DATASET-----

```
CREATE TABLE episode
(
    episodeID VARCHAR(10),
    seriesID VARCHAR(10),
    seasonNumber INT(4),
    episodeNumber INT(4),
    primaryTitle VARCHAR(50),
    originalTitle VARCHAR(50),
    isAdult BOOLEAN,
    startYear INT(4),
    PRIMARY KEY(episodeID),
    FOREIGN KEY (seriesID) REFERENCES series(seriesID)
);
```

```
LOAD DATA LOCAL INFILE
"/Users/viraj1604/Documents/Final_Datasets/Episode.tsv" INTO TABLE
episode IGNORE 1 ROWS;
```

## -----EPISODE\_ALIAS-----

```
CREATE TABLE episode_alias
(
    episodeID VARCHAR(10),
    ordering INT,
    title VARCHAR(50),
    region VARCHAR(10),
```

```

        isOriginalTitle VARCHAR(50),
        PRIMARY KEY(episodeID,ordering),
        FOREIGN KEY (episodeID) REFERENCES episode(episodeID)
    );

LOAD DATA LOCAL INFILE
"/Users/viraj1604/Documents/Final_Datasets/series_alias.tsv" INTO
TABLE episode_alias IGNORE 1 ROWS;

```

## -----MOVIE\_ALIAS-----

```

CREATE TABLE movie_alias
(
    movieID VARCHAR(10),
    ordering INT,
    title VARCHAR(50),
    region VARCHAR(10),
    isOriginalTitle VARCHAR(50),
    PRIMARY KEY (movieID, ordering),
    FOREIGN KEY (movieID) REFERENCES movie(movieID)
);

LOAD DATA LOCAL INFILE
"/Users/viraj1604/Documents/Final_Datasets/movie_alias.tsv" INTO
TABLE movie_alias IGNORE 1 ROWS;

```

## -----SERIES\_ALIAS-----

```

CREATE TABLE series_alias
(
    seriesID VARCHAR(10),
    ordering INT,
    title VARCHAR(50),
    region VARCHAR(10),
    isOriginalTitle VARCHAR(50)
    PRIMARY KEY (seriesID, ordering),
    FOREIGN KEY (seriesID) REFERENCES series(seriesID)
);

LOAD DATA LOCAL INFILE
"/Users/viraj1604/Documents/Final_Datasets/series_alias.tsv" INTO
TABLE series_alias IGNORE 1 ROWS;

```

### -----ACTOR TABLE-----

```
CREATE TABLE actor
(
    actorID VARCHAR(10),
    primaryName VARCHAR(50),
    birthYear INT(4),
    deathYear INT(4),
    gender VARCHAR(10)
    PRIMARY KEY (actorID)
);

LOAD DATA LOCAL INFILE
"/Users/viraj1604/Documents/Final_Datasets/actor.tsv" INTO TABLE
actor IGNORE 1 ROWS;
```

### -----DIRECTOR-----

```
CREATE TABLE director
(
    directorID VARCHAR(10),
    primaryName VARCHAR(50),
    birthYear INT(4),
    deathYear INT(4),
    PRIMARY KEY (directorID)
);

LOAD DATA LOCAL INFILE
"/Users/viraj1604/Documents/Final_Datasets/director.tsv" INTO TABLE
director IGNORE 1 ROWS;
```

### -----WRITER-----

```
CREATE TABLE writer
(
    writerID VARCHAR(10),
    primaryName VARCHAR(50),
    birthYear INT(4),
    deathYear INT(4),
    PRIMARY KEY (writerID)
);
```

```
LOAD DATA LOCAL INFILE
"/Users/viraj1604/Documents/Final_Datasets/writer.tsv" INTO TABLE
writer IGNORE 1 ROWS;
```

### -----ACTOR\_KNOWN\_FOR\_TITLES-----

```
CREATE TABLE actor_known_for_titles
(
    actorID VARCHAR(10),
    knownForTitles VARCHAR(10)
    PRIMARY KEY (actorID, knownForTitles),
    FOREIGN KEY (actorID) REFERENCES actor(actorID)
);
```

```
LOAD DATA LOCAL INFILE
"/Users/viraj1604/Documents/Final_Datasets/actorknownfortitles.tsv"
    INTO TABLE actor_known_for_titles IGNORE 1 ROWS;
```

### -----WRITER\_KNOWN\_FOR\_TITLES-----

```
CREATE TABLE writer_known_for_titles
(
    writerID VARCHAR(10),
    knownForTitles VARCHAR(10)
    PRIMARY KEY (writerID, knownForTitles),
    FOREIGN KEY (writerID) REFERENCES writer(writerID)
);
```

```
LOAD DATA LOCAL INFILE
"/Users/viraj1604/Documents/Final_Datasets/writerknownfortitles.tsv"
    INTO TABLE writer_known_for_titles IGNORE 1 ROWS;
```

### -----DIRECTOR\_KNOWN\_FOR\_TITLES-----

```
CREATE TABLE director_known_for_titles
(
    directorID VARCHAR(10),
    knownForTitles VARCHAR(10)
    PRIMARY KEY (directorID, knownForTitles),
    FOREIGN KEY (directorID) REFERENCES director(directorID)
```

```
);
```

```
LOAD DATA LOCAL INFILE
"/Users/viraj1604/Documents/Final_Datasets/directorknownfortitles.tsv"
    INTO TABLE director_known_for_titles IGNORE 1 ROWS;
```

### -----MOVIE\_DIRECTOR\_RELATION-----

```
CREATE TABLE movie_director_relation
(
    movieID VARCHAR(10),
    ordering INT,
    directorID VARCHAR(10),
    PRIMARY KEY (movieID, ordering, directorID),
    FOREIGN KEY (movieID) REFERENCES movie(movieID),
    FOREIGN KEY (directorID) REFERENCES director(directorID)
);
```

```
LOAD DATA LOCAL INFILE
"/Users/viraj1604/Documents/Final_Datasets/movie_director_relation.tsv"
    INTO TABLE movie_director_relation IGNORE 1 ROWS;
```

### -----MOVIE\_WRITER\_RELATION-----

```
CREATE TABLE movie_writer_relation
(
    movieID VARCHAR(10),
    ordering INT,
    writerID VARCHAR(10),
    PRIMARY KEY (movieID, ordering, writerID),
    FOREIGN KEY (movieID) REFERENCES movie(movieID),
    FOREIGN KEY (writerID) REFERENCES writer(writerID)
);
```

```
LOAD DATA LOCAL INFILE
"/Users/viraj1604/Documents/Final_Datasets/movie_writer_relation.tsv"
    INTO TABLE movie_writer_relation IGNORE 1 ROWS;
```

### -----MOVIE\_ACTOR\_RELATION-----

```
CREATE TABLE movie_actor_relation
(
    movieID VARCHAR(10),
    ordering INT,
    actorID VARCHAR(10),
    Characters VARCHAR(10),
    PRIMARY KEY (movieID, ordering, actorID),
    FOREIGN KEY (movieID) REFERENCES movie(movieID),
    FOREIGN KEY (actorID) REFERENCES actor(actorID)
);

LOAD DATA LOCAL INFILE
"/Users/viraj1604/Documents/Final_Datasets/movie_actor_relation.tsv"
    INTO TABLE movie_actor_relation IGNORE 1 ROWS;
```

### -----SERIES\_DIRECTOR\_RELATION-----

```
CREATE TABLE series_director_relation
(
    seriesID VARCHAR(10),
    ordering INT,
    directorID VARCHAR(10),
    PRIMARY KEY (seriesID, ordering, directorID),
    FOREIGN KEY (seriesID) REFERENCES series(seriesID),
    FOREIGN KEY (directorID) REFERENCES director(directorID)
);

LOAD DATA LOCAL INFILE
"/Users/viraj1604/Documents/Final_Datasets/series_director_relation.t
sv"
    INTO TABLE series_director_relation IGNORE 1 ROWS;
```

### -----SERIES\_WRITER\_RELATION-----

```
CREATE TABLE series_writer_relation
(
    seriesID VARCHAR(10),
    ordering INT,
```

```

        writerID VARCHAR(10),
        PRIMARY KEY (seriesID, ordering, writerID),
        FOREIGN KEY (seriesID) REFERENCES series(seriesID),
        FOREIGN KEY (writerID) REFERENCES writer(writerID)
    );

LOAD DATA LOCAL INFILE
"/Users/viraj1604/Documents/Final_Datasets/series_writer_relation.tsv"
    INTO TABLE series_writer_relation IGNORE 1 ROWS;

```

## -----SERIES\_ACTOR\_RELATION-----

```

CREATE TABLE series_actor_relation
(
    seriesID VARCHAR(10),
    ordering INT,
    actorID VARCHAR(10),
    characters VARCHAR(10),
    PRIMARY KEY (seriesID, ordering, actorID),
    FOREIGN KEY (seriesID) REFERENCES series(seriesID),
    FOREIGN KEY (actorID ) REFERENCES actor(actorID)
);

LOAD DATA LOCAL INFILE
"/Users/viraj1604/Documents/Final_Datasets/series_actor_relation.tsv"
    INTO TABLE series_actor_relation IGNORE 1 ROWS;

```

## -----QUERIES -----

**1) All details for the movie for the particular actor which is also known for other titles:**

```

SELECT * FROM movie
WHERE movieID IN (
    SELECT knownForTitles FROM actor_known_for_titles WHERE actorID = (
    SELECT actorID FROM actor WHERE primaryName = 'John Belushi'));

```



```
mysql> SELECT * FROM movie WHERE movieID IN ( SELECT knownForTitles FROM actor_known_for_titles WHERE actorID = ( SELECT actorID FROM actor WHERE primaryName = 'John Belushi' ));
```

movieID	primaryTitle	originalTitle	isAdult	releaseYear	runtimeMinutes	averageRating	numVotes
tt0077975	Animal House	Animal House	0	1978	109	7.6	104112
tt0078723	1941	1941	0	1979	118	5.8	29008
tt0080455	The Blues Brothers	The Blues Brothers	0	1980	133	7.9	165665

3 rows in set (0.75 sec)

**2) No. of movies directed by the director and in which genre alphabetically by name and highest count as per genre?**

```
SELECT distinct d.primaryName, mg.genres, count(m.movieID)
FROM movie m, director d, movie_director_relation md, movie_genre mg
WHERE md.movieID = m.movieID
AND mg.movieID = m.movieID
AND md.directorID = d.directorID
GROUP BY d.primaryName,mg.genres
ORDER BY d.primaryName, count(m.movieID) DESC
LIMIT 200;
```

```
mysql> SELECT distinct d.primaryName, mg.genres, count(m.movieID) FROM movie m, director d, movie_director_relation md, movie_genre mg WHERE md.movieID = m.movieID AND mg.movieID = m.movieID AND md.directorID = d.directorID GROUP BY d.primaryName, mg.genres ORDER BY d.primaryName, count(m.movieID) DESC LIMIT 200;
```

primaryName	genres	count(m.movieID)
'Atlas' Ramachandran	Drama	1
'Bob' Insert	Adult	1
'Chico' Hernandez	Family	3
'Fish' Mark Pickart	Comedy	1
'Fish' Mark Pickart	Short	1
'Hollywood' Steve Huey	Adventure	1
'Hollywood' Steve Huey	Action	1

**3) Top Ten rated movies:**

```
SELECT * FROM(
SELECT m.primaryTitle, m.averageRating FROM movie AS m
UNION
SELECT s.primaryTitle, s.averageRating FROM series AS s ) AS tt
ORDER BY tt.averageRating DESC LIMIT 10;
```

```
mysql> SELECT * FROM ( SELECT m.primaryTitle, m.averageRating FROM movie AS m UNION SELECT s.primaryTitle, s.averageRating
FROM series AS s ) AS tt ORDER BY tt.averageRating DESC LIMIT 10;
```

primaryTitle	averageRating
The Sharing Circle	8400
In Town Tonight	5220
Great Chefs of the World	4800
Desire	3900
White Deer Plain	3825
Kara melek	3600
Salmeboka minutt for minutt	3600
Alim Dayi	3000
Kôya no surônin	2925
Pepsi Top of the Pops	2565

#### 4) Top ten rated movies and their actor, writer and director.

```
Select m.primaryTitle, m.averageRating, a.primaryName ,
ma.characters, d.primaryName
from movie m, actor a, movie_actor_relation ma,
movie_director_relation md, director d
where m.movieID = ma.movieID
and a.actorID = ma.actorID
and d.directorID = md.directorID
and md.movieID = m.movieID
order by averageRating DESC limit 10;
```

```
mysql> Select m.primaryTitle, m.averageRating, a.primaryName , ma.characters, d.primaryName from movie m, actor a, movie_act
or_relation ma, movie_director_relation md, director d where m.movieID = ma.movieID and a.actorID = ma.actorID and d.direc
torID = md.directorID and md.movieID = m.movieID order by averageRating DESC limit 10;
```

primaryTitle	averageRating	primaryName	characters	primaryName
Sworn	10	David C. Hernandez	[""Hero"	Wesley Quinn
Sworn	10	Ramsey Krull	[""Thorn"	Wesley Quinn
Sworn	10	Chase McKendry	[""Hawk F	Wesley Quinn
Hand Rolled	10	Peter Weller	[""Narrat	Steve Gherebean
Pink Taxi	10	Argiris Tafralidis	[""Manage	Gabriel Athanasiou
Pink Taxi	10	Christina Tafralidou	[""Assist	Gabriel Athanasiou
Pink Taxi	10	Apostolos Tsamis	[""Pink T	Gabriel Athanasiou
Pink Taxi	10	Giorgos Vezirgiannidis	[""Vezos"	Gabriel Athanasiou
Crooked Strings	10	Stephen Brown	[""Office	Tone Melo
Crooked Strings	10	K'Sean Collard	[""Kenny	Tone Melo

10 rows in set (0.79 sec)

#### 5) Top Movie Actors and their character name.

```
Select m.primaryTitle, m.averageRating, a.primaryName , ma.Characters
from movie m
INNER JOIN movie_actor_relation ma ON m.movieID = ma.movieID
INNER JOIN actor a ON a.actorID = ma.actorID
ORDER BY m.averageRating
LIMIT 10;
```

```
mysql> Select m.primaryTitle, m.averageRating, a.primaryName , ma.Characters from movie m INNER JOIN movie_actor_relation m
a ON m.movieID = ma.movieID INNER JOIN actor a ON a.actorID = ma.actorID ORDER BY m.averageRating LIMIT 10;
```

primaryTitle	averageRating	primaryName	Characters
Irezumi dorei fujin	0	Naomi Hagio	NULL
Irezumi dorei fujin	0	Tôru Ibuki	NULL
Park Life	0	Molly Glover	[""Amy""]
Park Life	0	Alex McDonald-Smith	[""Olly""]
Park Life	0	Joe Warriner	[""Charli""]
Cup of Kindness for the Holidays	0	Patrick Stoffer	[""Danny""]
Cup of Kindness for the Holidays	0	Rebecca Noble	[""Sam""]
Golden Pussy	0	Alexander Hilson	[""Golden""]
Golden Pussy	0	Cole Chauvin	[""Profes""]
Golden Pussy	0	Matt Curtis	[""Chief""]

10 rows in set (0.79 sec)

## 6) Top 10 movies on basis of region

```
Select m.primaryTitle, ma.region, ma.title,m.averageRating
FROM movie m
INNER JOIN movie_alias ma ON m.movieID = ma.movieID
AND ma.region != 'NULL'
ORDER BY m.averageRating DESC
LIMIT 10;
```

```
mysql> Select m.primaryTitle, ma.region, ma.title,m.averageRating FROM movie m INNER JOIN movie_alias ma ON m.movieID = ma
.movieID AND ma.region != 'NULL' ORDER BY m.averageRating DESC LIMIT 10;
```

primaryTitle	region	title	averageRating
Pink Taxi	GR	Poç Taşı	10
Crooked Strings	US	Crooked Strings	10
The Steampunk Adventures of Salem Tusk	US	The Steampunk Adventures of Salem Tusk	10
Second Unit: A Mockumentary	US	Second Unit: A Mockumentary	10
Second Unit: A Mockumentary	US	Second Unit	10
Life	RS	Život	10
Life	XWW	Life	10
Life	PT	Vida	10
The Cassie Confession	US	The Cassie Confession	10
Movie Night	IL	Erev MeHasratim	10

10 rows in set (0.78 sec)

## 7) First 50 entries WriterName according to their series and their genres.

```
SELECT distinct w.primaryName as WriterName, s.primaryTitle,
sg.genres
FROM writer w, series_writer_relation sw, series s, series_genre sg
WHERE w.writerID = sw.writerID
AND s.seriesID = sw.seriesID
AND s.seriesID = sg.seriesID
AND w.writerID NOT IN
(
SELECT w1.writerID
FROM writer w1, movie_writer_relation mw
```

```
WHERE w1.writerID = mw.writerID)
LIMIT 10;
```

```
[mysql> SELECT distinct w.primaryName as WriterName, s.primaryTitle, sg.genres FROM writer w, series_writer_relation sw, series s, series_genre sg WHERE w.writerID = sw.writerID AND s.seriesID = sw.seriesID AND s.seriesID = sg.seriesID AND w.writerID NOT IN ( SELECT w1.writerID FROM writer w1, movie_writer_relation mw WHERE w1.writerID = mw.writerID) LIMIT 10;
```

WriterName	primaryTitle	genres
Jim Carrey	I'm Dying Up Here	Comedy
Jim Carrey	I'm Dying Up Here	Drama
Leonardo DiCaprio	Greensburg	Reality-TV
Whoopi Goldberg	Strong Medicine	Drama
Whoopi Goldberg	Just for Kicks	Comedy
Whoopi Goldberg	Just for Kicks	Drama
Whoopi Goldberg	Just for Kicks	Family
Fran Drescher	La nany	Comedy
Fran Drescher	Niania	Comedy
Fran Drescher	La niñera	Comedy

```
10 rows in set (0.01 sec)
```

**8) Count of movies in each genre, according to the highest first HAVING movies greater than 20000.**

```
SELECT distinct genres, count(movieID)
FROM movie_genre
GROUP BY genres
HAVING count(movieID) > 20000;
```

```
[mysql> SELECT distinct genres, count(movieID) FROM movie_genre GROUP BY genres HAVING count(movieID) > 20000;
```

genres	count(movieID)
Documentary	232885
Short	631447
Animation	53648
Comedy	256722
Romance	67011
Drama	411227
Family	43651
Fantasy	36413
Horror	60857
Biography	28161
Music	36964
Crime	49718
Adventure	37542
History	21935
Action	66067
Mystery	31903
Sci-Fi	30667
Thriller	58272

```
18 rows in set (1.16 sec)
```

**9) Series name and the actor name where its actor also acted in a movie:**

```
Select a.primaryName as ActorName, s.primaryTitle as SeriesName
from Series s, actor a, series_actor_relation sa
where s.seriesID = sa.seriesID
```

```

and a.actorID = sa.actorID
and a.actorID in (Select distinct a.actorID
from movie m1, actor a1, movie_actor_relation ma
where m1.movieID = ma.movieID
and a1.actorID = ma.actorID) LIMIT 10;

```

```

mysql> Select a.primaryName as ActorName, s.primaryTitle as SeriesName from Series s, actor a, series_actor_relation sa wher
e s.seriesID = sa.seriesID and a.actorID = sa.actorID and a.actorID in (Select distinct a.actorID from movie m1, actor a1, m
ovie_actor_relation ma where m1.movieID = ma.movieID and a1.actorID = ma.actorID) LIMIT 10;
+-----+-----+
| ActorName      | SeriesName      |
+-----+-----+
| Fred Astaire   | It Takes a Thief|
| Fred Astaire   | The Wasp of the Anime|
| Lauren Bacall  | Mr. Broadway    |
| Lauren Bacall  | The General Motors Playwrights Theater|
| Lauren Bacall  | CBS: On the Air  |
| Lauren Bacall  | Private View     |
| Lauren Bacall  | The Living Edens |
| Lauren Bacall  | Ron Russell's Set the Record Straight|
| Marlon Brando  | The Godfather Saga|
| Richard Burton | The James Mason Show|
+-----+-----+
10 rows in set (0.01 sec)

```