Database week 1

1.1 Assignment 1

Download WC_1_SongsDB.sql
Import into PhpMyAdmin

1. write a SQL query to list the names of all songs in the database.
    - Your query should output a table with a single column for the name of each song.

2. write a SQL query to list the names of all songs in increasing order of tempo.
    - Your query should output a table with a single column for the name of each song.

3. write a SQL query to list the names of the top 5 longest songs, in descending order of length.
    - Your query should output a table with a single column for the name of each song.

4. write a SQL query that lists the names of any songs that have danceability, energy, and valence greater than 0.75.
    - Your query should output a table with a single column for the name of each song.

5. write a SQL query that returns the average energy of all the songs.
    - Your query should output a table with a single column and a single row containing the average energy.

6. write a SQL query that lists the names of songs that are by Post Malone.
    - Your query should output a table with a single column for the name of each song.
    - You should not make any assumptions about what Post Malone's `artist_id` is.

7. write a SQL query that returns the average energy of songs that are by Drake.
    - Your query should output a table with a single column and a single row containing the average energy.
    - You should not make any assumptions about what Drake's `artist_id` is.

8. write a SQL query that lists the names of the songs that feature other artists.
    - Songs that feature other artists will include "feat." in the name of the song.
    - Your query should output a table with a single column for the name of each song.

1.2 Assignment 2

Download 2. WC_2_MoviesDB.sql
Import into PhpMyAdmin

1. write a SQL query to list the titles of all movies released in 2014.
   - Your query should output a table with a single column for the title of each movie.

2. write a SQL query to determine the birth year of Emma Stone.
   - Your query should output a table with a single column and a single row (not counting the header) containing Emma Stone's birth year.
   - You may assume that there is only one person in the database with the name Emma Stone

3. write a SQL query to list the titles of all movies with a release date on or after 2018, in alphabetical order.
   - Your query should output a table with a single column for the title of each movie.
   - Movies released in 2018 should be included, as should movies with release dates in the future.

4. write a SQL query to determine the number of movies with an IMDb rating of 8.4.
   - Your query should output a table with a single column and a single row (not counting the header) containing the number of movies with an 8.4 rating.

5. write a SQL query to list the titles and release years of all Harry Potter movies, in chronological order.
   - Your query should output a table with two columns, one for the title of each movie and one for the release year of each movie.
   - You may assume that the title of all Harry Potter movies will begin with the words "Harry Potter", and that if a movie title begins with the words "Harry Potter", it is a Harry Potter movie.

6. write a SQL query to determine the average rating of all movies released in 2012.
   - Your query should output a table with a single column and a single row (not counting the header) containing the average rating.

7. write a SQL query to list all movies released in 2010 and their ratings, in descending order by rating. For movies with the same rating, order them alphabetically by title.
   - Your query should output a table with two columns, one for the title of each movie and one for the rating of each movie.
   - Movies that do not have ratings should not be included in the result.

8. write a SQL query to list the names of all people who starred in Spider-man.
   - Your query should output a table with a single column for the name of each person.

- You may assume that there is only one movie in the database with the title Spider-man.

9. write a SQL query to list the names of all people who starred in a movie released in 2004, ordered by birth year.
   - Your query should output a table with a single column for the name of each person.
   - People with the same birth year may be listed in any order.
   - No need to worry about people who have no birth year listed, so long as those who do have a birth year are listed in order.

10. write a SQL query to list the names of all people who have directed a movie that received a rating of at least 8.0.
    - Your query should output a table with a single column for the name of each person.
    - If a person directed more than one movie that received a rating of at least 8.0, they should only appear in your results once.

11. write a SQL query to list the titles of the five highest rated movies (in order) that Zendaya starred in, starting with the highest rated.
    - Your query should output a table with a single column for the title of each movie.
    - You may assume that there is only one person in the database with the name Zendaya.

12. write a SQL query to list the titles of all movies in which both Tom Holland and Andrew Garfield starred.
    - Your query should output a table with a single column for the title of each movie.
    - You may assume that there is only one person in the database with the name Tom Holland.
    - You may assume that there is only one person in the database with the name Andrew Garfield.

13. write a SQL query to list the names of all people who starred in a movie in which Tobey Maguire also starred.
    - Your query should output a table with a single column for the name of each person.
    - Tobey Maguire himself should not be included in the resulting list.

14. write a SQL query to find the actor who has the highest difference between their best and their worst rated movie

1.3 Assignment 3

Download 3. EmmenCity-daderbase.sql
Import into PhpMyAdmin

The Jukebox has been stolen! School has called upon you to solve the mystery of the stolen jukebox of room 1.016. School believes that the thief stole the jukebox and then, shortly afterwards, took a flight out of town with the help of an accomplice. Your goal is to identify:

1. Who the thief is
2. What city the thief escaped to
3. Who the thief's accomplice is who helped them escape

*The theft **took place on July 28***