

DATABASE DESIGN AND APPLICATIONS

SQL EXERCISE 1.

Resources: This exercise is to be done using the gross movies dataset shared on your learning management platform(moodle).

Prerequisite Instructions:

- i. Make sure you have installed sqlite and DBBrowser correctly on your system.
- ii. Download the gross movies csv file from moodle.
- iii. Make sure the gross movies file resides in the same folder as your installation directory for sqlite.
- iv. Using the sqlite3 terminal, load the csv file into the ***in-transient memory database*** and create a table called **Shows**.
- v. Examine the schema of the table, make sure it matches the columns in the csv file. Use the terminal to do this.
- vi. Save the table into a database called **FavMovies.db**
- vii. Using DBBrowser, Open the FavMovies.db database.
- viii. *The rest of the exercise will be worked out using DBBrowser***
- ix. Each question requires one sql query.**
- x. All queries should be written under the Execute sql tab in DBBrowser and they should correspond to the number of questions in order. In total you should have 10 sql queries in order of the questions.**
- xi. Save your project as a **sqbpro** file in DBBrowser.*
- xii. Zip your work and submit via moodle.*

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QUESTIONS

NB. Each query should return only the data necessary to answer the question: if the problem only asks you to output the names of movies, for example, then your query should not also output the each movie's release year.

1. Write a SQL query to list the titles of all movies released in 2008.
2. Write a SQL query to determine the profitability of Twilight: Breaking Dawn.
3. Write a SQL query to list the titles of all movies with a release date on or after 2009, in alphabetical order.
4. Write a SQL query to determine the number of movies with a Rotten tomatoes rating of 70 and above.
5. Write a SQL query to list the titles and release years of all Comedy movies, in chronological order.
6. Write a SQL query to determine the average Audience Score of all movies released in 2010.
7. Write a SQL query to list all movies released in 2008 and their Worldwide Gross, in descending order by Worldwide gross.
8. Write a SQL query to list the movies who produced by Independent.
9. Write a SQL query to list the movies released in 2011, ordered by profitability.
10. Write a SQL query to list the Lead studios that have a movie that received a rotten tomato rating of at least 80.