Project Assignment 1

To understand and be able to write simple SQL queries.

Overview

In this homework you are asked to write 6 SQL queries on a relational **rating** database. The database for this assignment consists of the following three tables:

1. Movie (mID, title, year, director)
   English: There is a movie with ID number *mID*, a *title*, a release *year*, and a *director*.
2. Reviewer (rID, name)
   English: The reviewer with ID number *rID* has a certain *name*.
3. Rating (rID, mID, stars, ratingDate)
   English: The reviewer *rID* gave the movie *mID* a number of *stars* rating (1-5) on a certain *ratingDate*.

   `Rating.rID` refers to `Reviewer.rID`, and `Rating.mID` refers to `Movie.mID`.

Your queries will run over a small data set conforming to the schema. Please import the schema and data into your database from the given file *rating.sql* by issuing the command in `mySQL Client(Mariadb)`:

```
MariaDB [(none)]> source c:[\the path rating.sql is in\]rating.sql
e.g.
MariaDB [(none)]> source c:\database\rating.sql
```

- You are to translate the English into **one** SQL query that computes the desired result over all possible databases. All we actually check is that your query gets the right answer on the small sample database. But you **DO NOT** have to turn in the results you get from executing your queries.
- Your queries are auto-graded using Sqlight3. If you use **alternatives**, e.g. MS SQL, please ensure the queries you submit are executable on the Moodle VPL auto-grading system.
- **Eliminate duplicates** tuples from the result.

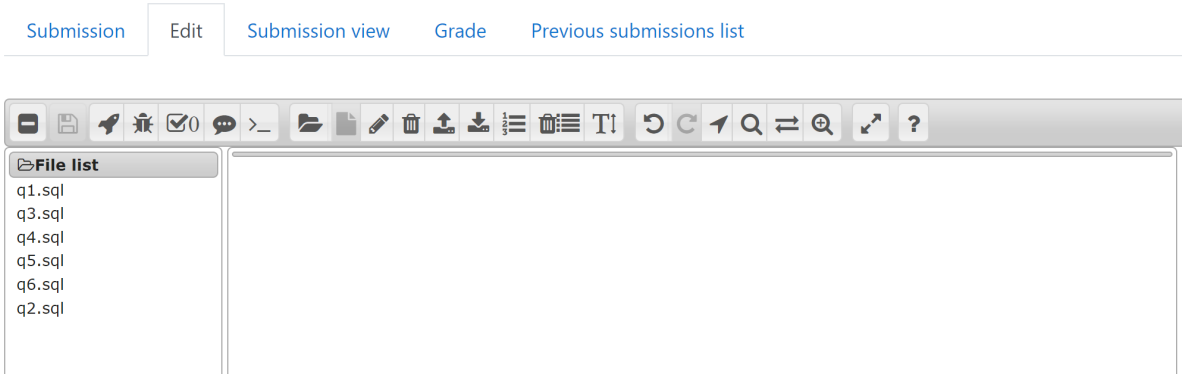
SQL Query Questions

1. Find the titles of all movies directed by `George Lucas`. (save the sql in q1.sql)
2. Find the names of all reviewers who rated `Gone with the Wind`, sort them in ascending order. (in q2.sql)
3. For any rating where the reviewer is the same as the director of the movie, return the reviewer name, movie title, and number of stars. (in q3.sql)
4. Find all reviewer's name that is ending with an 'on', sort them in ascending order. (in q4.sql)
5. Find the titles of all movies that have no ratings, sort them in ascending order. (in q5.sql)
6. Write a query to return the ratings data in a more readable format: reviewer name, movie title, stars, and rating Date. Also, sort the data, first by reviewer name, then by movie title, and lastly by number of stars. (*Note*: if there are more than one word in alias, use single or double quotes. e.g. 'reviewer name' or “reviewer name", this question will be using blend grading mode, i.e. auto + manual grading). (in q6.sql)

Submission and Evaluation

You need to submit in total 6 .sql text files to the Moodle. Each of the files containing only one query statement.

A quick way to submit multiple files in one time: Select all the files you want to submit, and the drag and drop them into the tab `Edit` in the submission page of Moodle, as in below:



Once all the 6 files have been uploaded, click button `evaluate` to get your result. The result can be be also seen in the tab `Grade`.