

Project No. 1 - SQL

Due Date –October 20, 2017

The Assignment




Consider the following schema:

```
APPEARED_IN (STAR, MOVIE)
MADE_MONEY (MOVIE, HOW_MUCH, DAY_OPENED)
MARRIED (COUPLE_NUM, DAY)
DIVORCED (COUPLE_NUM, DAY)
IN_COUPLE (STAR, COUPLE_NUM)
```

Write SQL queries for the following equally weighted questions (10 points per question, +10 for extra credit). For any credit, you must run your query in MySQL, and copy and paste the query and the output into a text file using an editor like Notepad and turn that in Canvas. We will grade you by re-running the queries.

For full credit, your query should work over any database with the above schema, and not just for the one that you test it on.

Assumptions

-  Couple is identified by COUPLE_NUM.
-  There is only one couple in any movie.
-  If a couple remarried each other, it is a different (new) couple from the old one.

Loading Schema & Data

Download the attached file with the assignment (*SQL-Project-1.sql*). You should be able to import the file within your MySQL environment. To do so, you can launch the MySQL Workbench. Go to server -> data import. Select the options “Import from Self-Contained File” and select the *SQL-Project-1.sql* file from your local directory. Then click “start import” button. The screenshot is given below:

Hardest Question: (for extra credit +10)

11. What couple averaged the most money per film *while they were married*?

Notes

Here are a few more, final notes:

SQL is not truly set-oriented. What this means is that you can ask queries and get back multiples of the same value. To avoid this, add the `DISTINCT` keyword. For example:

```
SELECT DISTINCT(STAR) FROM APPEARED_IN;
```

Often times, it will be useful to create a temporary table that will be used to complete a given query. You can do it by using `CREATE VIEW` command:

```
CREATE VIEW ALL_STARS AS SELECT DISTINCT(STAR) FROM APPEARED_IN;
```

After you do this, you can query the imaginary table `ALL_STARS` just like it was a regular table. To kill it when you are done, type:

```
DROP VIEW ALL_STARS;
```

You must drop any newly created view/table in your answer if you use create view, or create table, otherwise points will be deducted.

Collaboration

Lastly, and most important, a note on what is allowed and what is not allowed in terms of collaboration. It is OK to speak in generalities about how one might approach these problems with others. In other words, you can bounce ideas off of one another. However, it is NOT OK TO DISCUSS SQL ANSWERS AT ALL, as it relates to these problems, with anyone else in class. It is not OK to look at anyone else's answers, or to specifically discuss answers to the problems with anyone else. Basically, two sets of answers to problems that are turned in with the same SQL queries will be viewed with extreme suspicion.

Submission Guidelines

The assignment is due by the midnight on the day mentioned on the front page. Please submit the assignment electronically via Canvas, but be sure to send the files in a format that we can read (.txt, .doc, .pdf, etc.). You also can (and may be should) optionally upload another text file (apart from the answers) where you can specify any additional assumptions you have made, or describe your method briefly in case it is not producing the desired result.

Late Policy

1 day late is 10% off

We will not accept assignments after Saturday, October 21, 2017