

F28DM: Coursework 2- SQL

Deadline: Fri 21st Feb 2020 – 3:30pm (Week 6)

Submission: F28DM Vision – CW2 – online quiz (found under ASSESSMENTS in VISION)

Overview

This is an **individual** assignment whereby you will submit your answers to a Vision online quiz. You also need to submit a single text file of your SQL workings – please use the template provided.

Dataset

The data to be queried can be downloaded from here as a zip file and loaded on to your own mySQL install: <http://www.macs.hw.ac.uk/~pb56/f28dm.html>

Note for Edinburgh Students:

Edinburgh students can access a pre-installed copy of the database via mySQL on the MACS server. To access the MySQL database from a Linux command line on the university servers:

(substitute your username)

```
mysql -u username -p -h mysql-server-1
use imdb;
show tables;
```

If you are an Edinburgh student and can not access the imdb database please contact help@macs.hw.ac.uk and ask for permission to access the shared imdb database, provide the coursecode (F28DM), and your username (e.g. abc123).

Collaboration and Plagiarism

This coursework should be carried out individually. Students must never give hard or soft copies of their coursework/code to other students. Students must always refuse any request from another student for a copy of their code.

Sharing a coursework or code with another student is collusion, and if detected, this will be reported to the School's Discipline Committee. If found guilty of collusion, the penalty could involve voiding the course.

Required Tasks

Answer the following questions (see next page) using SQL and the IMDB data subset supplied.

Each query should be answered with a single SQL statement. In other words you must not calculate the answer from using several separate SQL statements, putting the answer from one in to the next by hand.

- Submit your answers via the Vision Quiz in the F28DM course, CW2.
- Any questions with sub-parts need all parts to be answered correctly for the marks (i.e. no partial marking)
- Not all questions are worth the same marks (see the Vision quiz for weightings)
- In addition submit a script of your SQL statements to Vision – the file must use your university username (e.g. abc123.sql) and it must clearly state the question number for each SQL statement with a preceding comment - use the template provided (see Vision CW2).

Ensure you substitute your username, and add the corresponding SQL statement under each comment. The first few lines of the template you should download from Vision look like this:

```
#F28DM CW2
#username = abc123
#question 1
SELECT..
#question 2
...
```

Question	
1	How many female actors are listed in the dataset supplied?
2	What is the title of the earliest movie in the dataset?
3	How many movies have more than 5 directors?
4	Give the title of which movie has the most directors?
5	What is the total running time of all the <i>Sci-Fi</i> movies in the dataset?
6	How many movies star both 'Ewan McGregor' and 'Robert Carlyle'? (i.e. both actors are starring in the same movie)
7	How many actors (male / female) have worked together on 10 or more films?
8	Assign the number of movies released per decade as listed below (1960-69, 1970-79, 1980-89,1990-99,2000-2010)
9	How many movies have more female actors than male actors?
10	Based ratings with 10,000 or more votes, what is the top movie genre using the average rank per movie genre as the metric? (Note: where a higher value for rank is considered a better movie)
11	List any actors (male/female) that have starred in 10 or more different film genres.
12	How many movies have an actor/actress that also wrote and directed the movie?
13	Which decade has the highest average ranked movies? (put the first year from the decade, so for 1900-1909 you would put 1900)
14	How many movies are missing a genre in the dataset?
15	how many movies have an actor/actress written and directed but not starred in? (i.e. the person that wrote and directed the movie is an actor/actress but they didn't star in their own movie)

Submit your answers via Vision "Coursework 2 – SQL" in the assessment section. You must include a single text file upload of your SQL workings (last part of the quiz) otherwise you will received 0 marks for this coursework.

Note: You can save the quiz, but only submit once.

=== End ===