CS 248 – Module 3.3 Assignment (part 1)

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Little IMDB is a small subset of the Internet Movie Database (IMDB) with a relatively small number of movies and actors included. You can play with this database at the URL listed below. Enter a few queries to become familiar with the database (browse the database).

When you are ready, answer the following questions by *providing the proper SQL for each query*. **DO NOT provide the returned results, just the SQL**. You can test the query at the web page below.

Paste the queries directly into this document. MAKE SURE YOUR SQL IS NICELY FORMATTED.

Tiny IMDB test Site: <http://144.13.22.52/examples/littleimdbsql.php>

1. List every row in the movies\_crew table where job is ‘Director’

SELECT \* FROM movies\_crew WHERE job="director";

1. List the *unique* genre values stored in the genres table.

SELECT DISTINCT genre FROM genres;

1. Output the number of total unique movies in this database (just the number, not the movies)  
   (note: see the COUNT function)

SELECT DISTINCT COUNT(id) FROM movie;

1. Output the number of movies from the year 2018 in this database (just the number).

SELECT COUNT(id) FROM movie WHERE year="2018";

1. What is the average, min, and max imdb\_rating of all the entries in the movie table?  
   (You must do this in one query, with each entry being a separate column)

SELECT AVG(imdb\_rating) AS Avg, MIN(imdb\_rating) AS Min, MAX(imdb\_rating) AS Max FROM movie;

1. List the crew\_id with first and last names of every Director for movies released in 2000 and 2001 WITHOUT duplicates (Note: see the AND and OR operators, 3 tables must be joined for this)

SELECT DISTINCT movies\_crew.crew\_id AS ID, crew.firstName, crew.lastName

FROM movies\_crew

JOIN crew ON movies\_crew.crew\_id = crew.id

JOIN movie ON movies\_crew.movie\_id = movie.id

WHERE movie.year = "2000" OR movie.year = "2001";

1. List all the actors’ names and roles for the movie All Quiet on the Western Front   
   (Note: 3 different tables must be joined for this)

SELECT actor.name AS Actor, movies\_actors.role AS Role

FROM actor

JOIN movies\_actors ON actor.id = movies\_actors.actor\_id

JOIN movie ON movies\_actors.movie\_id = movie.id

WHERE movie.title = "All Quiet on the Western Front";

1. List all **distinct** crew members with the job ‘Producer’ for movies released in the year 2000 or later (Note: make sure to not repeat any names if they produced more than 1 film like ‘Peter Jackson’)

SELECT DISTINCT crew.name AS Name

FROM crew

JOIN movies\_crew ON crew.id = movies\_crew.crew\_id

JOIN movie ON movies\_crew.movie\_id = movie.id

WHERE movie.year >= "2000" AND movies\_crew.job = "Producer";

1. List all roles from movies in the Musical genre played by an actor with a first name that is some form of *Anthony* (including *Tony*) stored in this database (Note: this requires joining 4 tables, see LIKE operator). HINT! There are 7 actors that fit these requirements.

SELECT movies\_actors.role, actor.name

FROM movies\_actors

JOIN actor ON movies\_actors.actor\_id = actor.id

JOIN movie ON movies\_actors.movie\_id = movie.id

JOIN genres ON movie.id = genres.movie\_id

WHERE genres.genre = "Musical" AND actor.firstName LIKE "%ony%";

1. List all actors (first and last name) and their roles for every Animation genre movie in the database.

SELECT actor.name AS Name, movies\_actors.role AS Role

FROM actor

JOIN movies\_actors ON actor.id = movies\_actors.actor\_id

JOIN genres ON movies\_actors.movie\_id = genres.movie\_id

WHERE genres.genre = "Animation";