

CT230 DATABASE SYSTEMS

PROBLEM SHEET 3

FOR LABS ON: Mon 03/10/2022; Tue 04/10/2022; Thur 06/10/2022

Learning Outcomes: To become familiar with the SQL SELECT commands, working with strings and sub-queries.

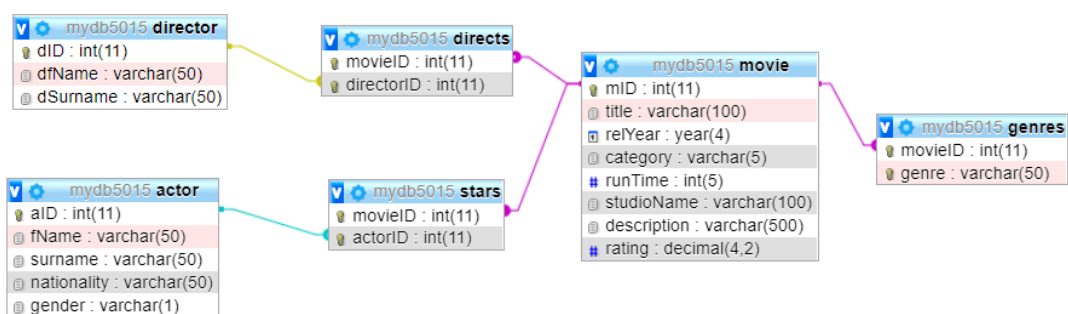
Goal: This assignment involves the **querying** of tables from the movie database. It is important that **all** data given in problem sheet 2 is input to the tables before producing the outputs for this assignment. If done completely, everyone should get the same answers which is a nice way to check the correctness of your code!

*** Please note that it is good practice to write/type your query using the schema given before typing/pasting in and running in MySQL.***

Resources: See lecture notes on SQL SELECT and the movie database.

Examining & Marking: This problem sheet allows you to practice the material and obtain help/explanation if necessary. The material will be examined for marks via a Blackboard quiz – Test 2.

SCHEMA:



(For description see Blackboard resources).

WRITE SQL CODE TO GET ANSWERS FOR THE FOLLOWING TASKS:

1. List the titles of all movies released in 2022.
2. List the names of actors with Irish nationality, ordered by surname.
3. Find the number of movies which are age category 15.
4. Using a sub-query approach, list the names of the actors in the movie with movie ID 17.
5. Using a sub-query approach, list the titles and release year of movies which star the actor with actor ID 24.
6. Find the maximum rating given to a movie.
7. List the titles of movies which received greater than the average rating, ordering by title.
8. List the names (first name and surname) of directors whose first name begins with 'A'.
9. Using a sub-query approach, list the titles of movies directed by the director Quentin Tarantino. *Hint: two sub-queries are needed.
10. For each director in the database, list the director ID, and the number of movies directed by that director if the director has directed more than one movie. *Hint: need GROUP BY and HAVING clauses.