**CS 248 – Web and Internet Programming**

**Assignment 5: SQL - 50 Points**

**Deliverables**: Upload answers in Assignment 5 Dropbox

**Assignment**: Answer the following questions.

Tiny IMDB is a small subset of the IMDB database with a limited number of movies and actors included. Enter a few queries to become familiar with the database (browse the database). Answer the following questions by writing the proper SQL for each query by testing the query at: <http://mscs-php.uwstout.edu/intranet/tinyimdb/imdbsql.php> If you are not on campus, you will need to connect to the VPN first (instructions at <https://kb.uwstout.edu/page.php?id=46880>).

Paste each query into this document under the appropriate item and dropbox the document for submission.

1. List all the contents of the Directors table.

SELECT \* FROM directors

1. List only the unique year values stored in the movies table.

SELECT DISTINCT year FROM movies

1. Output the count of the number of total movies in this database.

[[**https://www.w3schools.com/sql/sql\_count\_avg\_sum.asp**](https://www.w3schools.com/sql/sql_count_avg_sum.asp)]

SELECT COUNT(id) FROM movies

1. Output the count of the number of movies from the year 2000 in this database.

SELECT COUNT(id) FROM movies WHERE year = 2000

1. What is the average, minimum, and maximum year of all the movies? Do this in one query.

**[**[**https://www.w3schools.com/sql/sql\_min\_max.asp**](https://www.w3schools.com/sql/sql_min_max.asp)**]**

SELECT AVG(year), MIN(year), MAX(year) FROM movies

1. List all actors’ first and last names and their roles which start with the letter ‘P’.

SELECT actors.first\_name, actors.last\_name, roles.role FROM actors

JOIN roles

ON actors.id = roles.actor\_id

WHERE roles.role like “P%”

1. Return all the director information for the movie Fargo. **[Hint, multiple joins needed** [**https://www.w3schools.com/sql/sql\_join.asp**](https://www.w3schools.com/sql/sql_join.asp)**]**

SELECT directors.id, directors.first\_name, directors.last\_name FROM directors

JOIN movies\_directors

ON directors.id = movies\_directors.director\_id

JOIN movies

ON movies\_directors.movie\_id = movies.id

WHERE movies.name = “Fargo”

1. List all directors and movie year for movies released in 2000 or after.

SELECT directors.first\_name, directors.last\_name, movies.year FROM directors

JOIN movies\_directors

ON directors.id = movies\_directors.director\_id

JOIN movies

ON movies\_directors.movie\_id = movies.id  
 WHERE movies.year >= 2000

1. List all roles (plus actor’s first and last name) played by actors with first name Kevin where the movies are in the drama genre.

SELECT roles.role, actors.first\_name, actors.last\_name FROM roles

JOIN actors

ON roles.actor\_id = actors.id

JOIN movies\_genres

ON roles.movie\_id = movies\_genres.movie\_id  
 WHERE actors.first\_name = “Kevin”

AND movies\_genres.genre = “drama”

1. List all actors and their roles for each comedy genre movie in the database.

SELECT actors.first\_name, actors.last\_name, roles.role FROM actors

JOIN roles

ON actors.id = roles.actor\_id

JOIN movies\_genres

ON roles.movie\_id = movies\_genres.movie\_id

WHERE movies\_genres.genre = “comedy”