

## CIS 8045 Assignment 2

### What/How to Turn-In (Please closely follow this instruction to turn in your assignment):

- Put all your code (Cypher code) you develop in a MS Word document. Add necessary denotations for clarity;
- The grading will be based on the correctness/appropriateness of your code;
- Upload the MS Word document to the “Assignment 2 Dropbox” in the iCollege class website.

### What to Do:

**I.** Access a Neo4j database online at: <https://demo.neo4jlabs.com:7473>. You can use username "recommendations", password: "recommendations" to login and then access the database: "recommendations". This is a movie database. You already have all the data. You can build and test your Cypher queries here for the following homework questions.

**II.** Based on the movie database you created, write Cypher commands to complete the following queries.

1. Find all movies that Sylvester Stallone acted in;
2. Find all artists who are two steps away from Sylvester Stallone;
3. Find a path between the movie Rocky II and the movie The Karate Kid II;
4. Find how many “DIRECTED” relationships are represented in the movie database. Your result should present the total number of “DIRECTED” relationships;
5. Find who played in which movies with a role named “Daniel LaRusso”;
6. Find all artists who are associated with (either ACTED\_IN or DIRECTED) the Rocky series of movies;
7. Find the total number of movies directed by each of the directors in the database. Your result should present the total numbers;
8. Find all the movies released after year 1990, but only return the most recent two of them;
9. Find the director John G. Avildsen and the total number of movies he has directed;
10. Find out if Sylvester Stallone directed “The Expendables II” or not. If not, return NULL.