

MAS DSE 250 Beyond Relational Data Models

Homework 3

Due Thu Dec 1, 2016

This homework is a programming assignment.

Please turn it in *electronically, by email to our TA, Michael Brevard* (mbrevard@eng.ucsd.edu) in form of a single text file containing your queries.

In this assignment, we will develop some Cypher queries over a movie graph. Assume that this graph models data just like the one provided by your installation of neo4j community edition. Make sure that your queries run over this graph.

1. Find persons who served as both actor and director in the same movie (display person name and movie title).
2. Find the name of directors who have never acted.
3. For each person who has acted in at least one movie, add a label "Actor" to the node representing this person.
4. For each actor, add a "roleCount" attribute containing the number of roles the actor has interpreted overall.
5. For each director, find the number of roles they have directed (display director name and role number).
6. Find the name of actors who have worked with **every** director born after 1966.
7. Rename each ACTED_IN relation to APPEARED_IN, preserve the "roles" attribute.