

MAS DSE 250 Beyond Relational Data Models

Homework 3

Due Thu, Nov 16, 2017

This homework is a programming assignment.

Please turn it in *electronically, by github, 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.*