

# Programming Applications with Databases

## Exercise Set 8

1. Download and install locally the latest version of the Neo4j Desktop. Run Neo4j Browser and by clicking in the navigator in the left sidebar show movies from the example database.

[1p]

2. In the example database

- add 2 new actors and 2 new movies,
- add 2 new properties to 1 movie,
- add 2 new *acted\_in* relation,
- update 1 movie property,
- remove 1 *acted\_in* relation.

[2p]

3. Prepare the following queries

- return the movies where person A acted in,
- return the movies where person A was both the producer and the director,
- return actors who didn't play in any movie,
- return actors who played in more than 3 movies,
- return movies with the larger number of actors.

In case it is needed, additional nodes or relations can be added. For more details about functions in Cypher see <https://neo4j.com/docs/cypher-manual/current/functions/>.

[2p]

*Paweł Rajba*