

# Big Data Infrastructures: Graph DB Homework

## Instructions:

1. Go to Neo4j Sandbox: <https://neo4j.com/sandbox-v2/>
2. Press "Start now"
3. Log in with the existing account (Google, GitHub, Twitter, LinkedIn) or create a new one
4. Go to "Recommendations" → "Launch Sandbox"
5. Open Neo4j Browser

## Dataset:

Dataset contains the following entities and relationships:

```
(:User)-[:RATED]->(:Movie)
(:Actor)-[:ACTED_IN]->(:Movie)
(:Director)-[:DIRECTED]->(:Movie)
(:Movie)-[:IN_GENRE]->(:Genre)
```

You can discover properties of each type of entity and relationship with the following queries:

```
MATCH (u:User) RETURN u;
MATCH ()-[r:RATED]->() RETURN r;
```

## Exercises:

**Task 1.** Execute the following queries:

- a) Rate your favourite movie
- b) Change your rating
- c) Delete your rating

**Task 2.** Find movies with Tom Hanks released in 1990s (1990-1999). Output name of the movie, release year and director name.

**Task 3.** Count the average rating for "Titanic" movie, directed by James Cameron.

**Task 4.** List names of all Keanu Reeves co-actors.

**Task 5.** Find someone to introduce Tom Hanks to Tom Cruise (that is, a common co-actor for Tom Cruise and Tom Hanks).

## Deliverables:

For each task, please provide:

1. Query
2. Table with results (Text view in Neo4j Sandbox)

Upload your solution to ILIAS before **midnight 5th of December 2018**