# Lab<sub>03</sub>

## **NoSQL**

### Task

Your task is to analyze the Netflix Prize dataset, which you already transformed into a CSV format, by importing the data into a database technology.

- 1. Choose one database technology among following list (use docker if possible):
  - a. Redis
  - b. MongoDB
  - c. Neo4j
  - d. Cassandra
- 2. Import your processed Netflix Prize data set and movie titles data set (see movie\_titles.csv at Kaggle) via Python script.
- 3. Execute/Compute following queries on the chosen database technology:
  - a. Compute the average rating, lowest rating, highest rating and number of ratings per movie
  - b. Get the movie with the lowest overall rating. If the movies are tied for rating, take the movie with the lowest movie\_id
  - c. Get the movie with the highest overall rating. If the movies are tied for rating, take the movie with the lowest movie\_id
  - d. Get the number of ratings in February 2002
  - e. Get the user that creates the lowest average rating and has rated at least 5 times. If two users are tied, use the one with the lower user\_id
  - f. For the movie "The Spy Who Loved Me": Get the average rating for each year and month sorted by year and month in ascending order

## **Output**

- A PDF document containing the queries and results for each step
- Furthermore, the document shall contain all setup steps and the (Python) script which was used for importing the data
- Include also a conclusion why certain queries might not be ideal for your chosen database technology

#### Outcome

Basic understanding of ingesting and analyzing data in the chosen database technology

#### **Note**

You are allowed to shrink the dataset accordingly if you hit certain performance bottlenecks on your laptop. If so, for subtask 3f another movie might be freely chosen.