NDBI040: Big Data Management and NoSQL Databases

http://www.ksi.mff.cuni.cz/~svoboda/courses/2016-1-NDBI040/

Practical Class 5

MongoDB Document Database

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First Steps

Remotely connect to our NoSQL server

- SSH and SFTP access
- PuTTY and WinSCP on Windows
- nosql.ms.mff.cuni.cz:42222

Start mongo shell

mongo

Switch to your database

• use login

Insert sample data into your database

- Empty your collections first
- See /home/NOSQL/mongodb/data.js

Express the following MongoDB query

Find actors born in 1966 with first name Jiri

- Find movies directed by Jan Hrebejk
- Note that the order of fields for first and last names can be arbitrary

- Find actors with first name Jiri who played in Medvidek movie
- Return names of these actors only

- Find movies shot between years 2000 and 2005 such that they have a director specified
- Return movie identifier only
- Order the result by ratings in descending order and then by years in ascending order

- Find actors who stared in Samotari or Medvidek movies
- Return actor identifier only
- Find two different approaches

- Find actors who played in both Samotari and Medvidek
- Return actor identifier only
- Find two different approaches

- Find movies with Czech title equal to Vratne lahve
- Return movie title only
- Note that there are two means how movie titles are defined

- Find actors having their movies defined as an array
- Return actor identifier and the second and third movie only (if any)

- Find movies in which at least one actor with an identifier ending with ova played
- Return movie identifier and the first actor who satisfies such a condition

- Find movies that have a Czech Lion award from 2005
- Return movie identifier and all awards

- Find movies that are comedies and dramas at the same time or
 - have a rating 80 or more
- Return movie identifier only