Laboratory Sheet 7

MongoDB

1. Download and install locally the MongoDB community server from:
   https://www.mongodb.com/download-center/community

   Instructions: https://docs.mongodb.com/manual/administration/install-community/

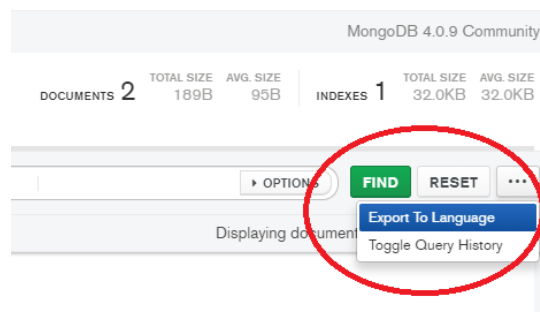   You can accept the default settings. Include the installation of the GUI "Compass".

2. Using Compass, create a database "Blog" and a collection "Posts", and insert data for 2 blog posts (documents). The requirements are:
   a) every post has a title, content and URL;
   b) every post can have zero or more tags;
   c) every post has the name of its author and total number of likes;
   d) on each post, there can be zero or more comments
   e) every comment will include the commenter's name, message, date-time and number of likes.

   Instructions: https://docs.mongodb.com/manual/tutorial/insert-documents/ → "Compass"

   NOTES: Compass omits the {} and "" of the JSON notation;

   Compass transforms your dates into UTC, e.g. "2020-03-01T14:20:00.000+00:00".

3. Query those documents, with help from:
   https://docs.mongodb.com/manual/tutorial/query-documents/ → "Compass"
   a. Filter for posts with a certain tag (String)
   b. Filter for posts with more than a number of likes (Int, Double…)
   c. Export your queries to Node to use in your web app

4. All instructions are also available for NodeJS, by clicking the corresponding button