Lab 05 - MongoDB

1. **Download softwares:**

    a. https://www.mongodb.com/try/download/community (zip package)

    b. https://www.mongodb.com/try/download/compass

    Start MongoDB server by running the command, for example: **mongod.exe --dbpath "C:\data"** and connect to your MongoDB server using Compass software.

2. **Insert Data**

    Create a post collection, you can insert more documents into the collection.

    https://www.tutorialspoint.com/mongodb/mongodb_insert_document.htm

3. **Query the collection** :

    a. Find documents whose tags contain the word 'mongodb'

    b. Find documents whose descriptions contain the word 'NoSQL' (using text search)

    b. Find documents whose titles or descriptions contain the word 'NoSQL'

    c. Find documents having more than 50 likes

    d. Find the average likes number of documents in the collection.

4. *Replication*

    (https://www.tutorialspoint.com/mongodb/mongodb_replication.htm)

    a. Create a replica set named rs0 consisting of 2 Mongod instances using ports 27017, 27018

    b. See the status of rs0 and add data to the primary instance, check if the data appears on the secondary instance.

    c. Add a new mongod instance using port 27019 to rs0.

    d. Stop the primary instance, check the status of rs0 again, and see which secondary instance becomes the primary.