# Exercises: MongoDB

This document defines the class assignments from the ["Databases" Course @ Software University](https://softuni.bg/trainings/1168/Databases-Jun-2015).

## Run MongoDB Locally

Run a MongoDB instance on localhost so you can connect from a client

### Task 1. Install MongoDB for you platform

1. Go to <https://www.mongodb.org/downloads>
2. Find you platform
3. Download
4. Follow the installer

### Task 2. Run a server

If you are using windows and MongoDB is installed in Program Files you’d need to use Administrative role

1. Open command prompt as administrator
2. Navigate to MongoDB root
3. Create a folder “data”
4. Run “mongod –dbpath ../data”

## Data extraction

Fill a database and extract data by certain critera

### Task 1. Create a database

Consider using the “use” command

### Task 2. Create a collection

Consider using the “db.collectionName” pattern

### Task 3. Insert data

1. Use bulk insert
2. Use property for later filtration e.g. “RegisterDate”, “Level”, “Age”, etc..

### Task 4. Extract filtered data

1. Find documents that match certain criteria e.g. Registered after a data, more than 18 years, etc
2. Use find() method
3. Use operators e.g. $gt