Lab 8 – MongoDB – Query

# Objective

In this Lab, you learn to query a database in MongoDB.

# Submission

For this lab, you should submit a file with the below exercises completed.

Your file should be called: **L08–*lastname-firstname*** (for example: L08-King-Les) Make sure to show your output for each command to demonstrate it works.

# Getting Started

In this lab, you will use products.json dataset. Download products.json from Blackboard and store it in a folder named dataset.

Open your Windows command prompt and go the following directory where MongoDB is installed:

* cd C:\Program Files\MongoDB\Server\4.2\**bin** To run MongoDB, execute ***mongod***
* mongod

When MongoDB starts successfully, open another Windows command prompt and go the same

*bin* directory:

* cd C:\Program Files\MongoDB\Server\4.2\**bin** and execute ***mongo***
* mongo

Or you execute a batch file to start up MongoDB.

You will import products.json to the *inventory* database. To import data, go to the *bin* directory:

* cd C:\Program Files\MongoDB\Server\4.2\**bin** Execute the following command:
* mongoimport --db inventory --collection products --file ..\dataset\products.json

For the *json* file, provide the full path to the products.json. After executing the command, the data is imported to the *inventory* database. To make sure data is imported successfully, go to the MongoDB shell and execute the following command to see the imported documents:

* show dbs

You should see the database *inventory* added to the list of your databases. To see the documents inside the database:

* use inventory
* db.products.find().forEach(printjson)

# Tasks

1. Write a query to return *name* and *price* of each product in the *inventory* database.
2. Write a query to return *name* and *price* for products of type *accessory* in the *inventory*

database.

1. Write a query to return *name* and *price* for products with price between $12 and $20 (Values *12* and *20* are included).
2. Write a query to return *id*, *name*, *price*, and *type* for products that are not of type

*accessory*.

1. Write a query to return *id*, *name*, *price*, and type for products with type *accessory* or

*service*.

1. Write a query to return *id*, *name*, *price*, and *type* for products that do have the *type* key.
2. Write a query to return *id*, *name*, *price*, and *type* for products that their type is both

*accessory* and *case*.