

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)

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 college --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 *college* 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 *college* added to the list of your databases. To see the documents inside the database:

- `use college`
- `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.

3. Write a query to return *name* and *price* for products with price between \$12 and \$20 (Values 12 and 20 are included).

4. Write a query to return *id*, *name*, *price*, and *type* for products that are not of type *accessory*.

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

6. Write a query to return *id*, *name*, *price*, and *type* for products that do have the *type* key.

7. Write a query to return *id*, *name*, *price*, and *type* for products that their type is both *accessory* and *case*.