# Lab 8

# (MongoDB – Query)

## Objective

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

## 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\[version]\**bin**

To run MongoDB, execute ***mongod***

* mongod

When MongoDB starts successfully, open another Windows command prompt and execute ***mongosh (***from the bin directory of the unzipped mongo shell archive file)

* mongosh

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\[version]\**bin**

Execute the following command:

* mongoimport --db inventory --collection products --file ..\dataset\products.json

For the *json* file, provide the full path to the prodcuts.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 added to the list of your databases. To see the documents inside the database:

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

## Submission

You submit this file with answers (in the provided space). Name the file “L08\_ID#\_LASTNAME.pdf”.

## Tasks

1. Write a query to return *name* and *price* of each product in the *inventory* database.

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| To find the name and price only for each product in the inventory database:   * db.products.find({}, {"name": 1, "price": 1});   However, to find the name and price along with the id of each product in the inventory database:   * db.products.find({}, {“\_id”: 0, "name": 1, "price": 1}); |

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

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| The query to return the name and the price for products of type accessory in the inventory is:   * db.products.find({“type” : “accessory”}, {“\_id”: 0, “name”: 1, “price”: 1}); |

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

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| The query to return name and the price for the products with the price between $12 to $ 20 is:   * db.products.find({"price": {"$gte" : 12, "$lte": 20}}, {"\_id": 0, "name": 1, "price": 1}); |

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

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| The query to return the id, name, price and type for the products that are not of type called accessory is:   * db.products.find({"type": {"$ne" : "accessory"}}, {"\_id": 0, "name": 1, "price": 1, "type": 1}); |

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

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| The query to return the id, name, price and the type of the product with the type accessory or the service is:   * db.products.find({"$or": [{"type": "accessory"}, {"type": "accessory"}]}, {"\_id": 0, "name": 1, "price": 1, "type": 1}); |

Good luck.