# Objectives

In this assignment you will:

* import data into a MongoDB database.
* query data in a MongoDB database.
* export data from MongoDB.

# Tools / Software

* MongoDB Server
* MongoDB Command Line Backup Tools

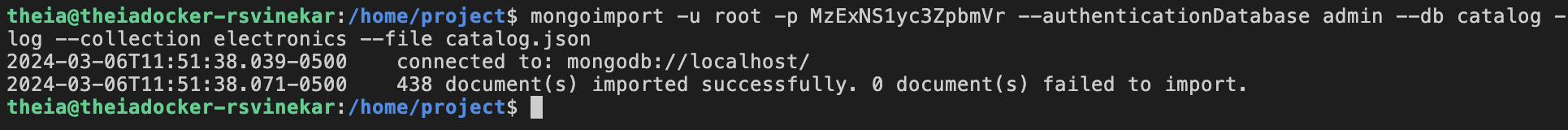
## Exercise 1 - Check the lab environment

Before you proceed with the assignment :

* Check if you have the ‘mongoimport’ and ‘mongoexport’ installed on the lab, otherwise install them.
* Download the catalog.json file.

## Exercise 2 - Working with MongoDB

### Task 1 - Import ‘catalog.json’ into mongodb server into a database named ‘catalog’ and a collection named ‘electronics’

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mongoimport.jpg

### Task 2 - List out all the databases

A screenshot of a computer

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list-dbs.jpg.

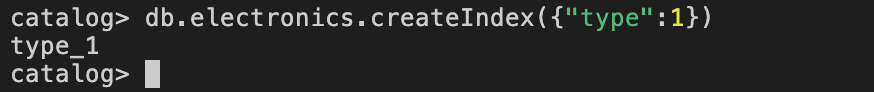
### Task 3 - List out all the collections in the database ‘catalog’.

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list-collections.jpg

### Task 4 - Create an index on the field “type”

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create-index.jpg

### Task 5 - Write a query to find the count of laptops

**A screen shot of a computer code

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mongo-query-laptops.jpg

### Task 6 - Write a query to find the number of ‘smart phones’  with screen size of 6 inches.

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mongo-query-mobiles1.jpg

### Task 7. Write a query to find out the average screen size of ‘smart phones’ .

**A screen shot of a computer

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mongo-query-mobiles2.jpg.

### Task 8 - Export the fields \_id, “type”, “model”, from the ‘electronics’ collection into a file named ‘electronics.csv’

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mongoexport.jpg