NoSQL Model Comparator

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1 Context

The main reason of this paper is to show what we both have done so far. First, this paper is about introducing the tool we've been assigned; MongoDB. Then, we will present the work done on the dataset we've been assigned on Github, using MongoDB.

2 MongoDB

MongoDB is a platform-independent document-oriented database program. Its main objective is to handle these data never needing a predefined schema. Actually, MongoDB stores data in a flexible, JSON-like documents way. The document model maps to the objects in our application code, making data easy to work with.

It is about having many collections with many fields, grouped in databases. Which is the structure we find when visualizing the data.

Plus, the fact that MongoDB provides the possibility to store data in a very dynamic way is an advantage over SQL relational databases where you must define and declare the structure of the data prior to inserting it in the database.

3 Dataset Work -Screenshots

When it comes to MongoDB, after downloading it from its website, we needed to create a collection of our database in order to visualize our JSON file. MongoDB makes it possible for us to filter our database, to view it on charts, to add items, to modify them and to remove them.

The dataset, books.json, that we're going to present in this paper is one found in mongo-db-files on the Github link that Mrs.Asaad has shared before.

Here are the screenshots of the different steps and operations we've done.

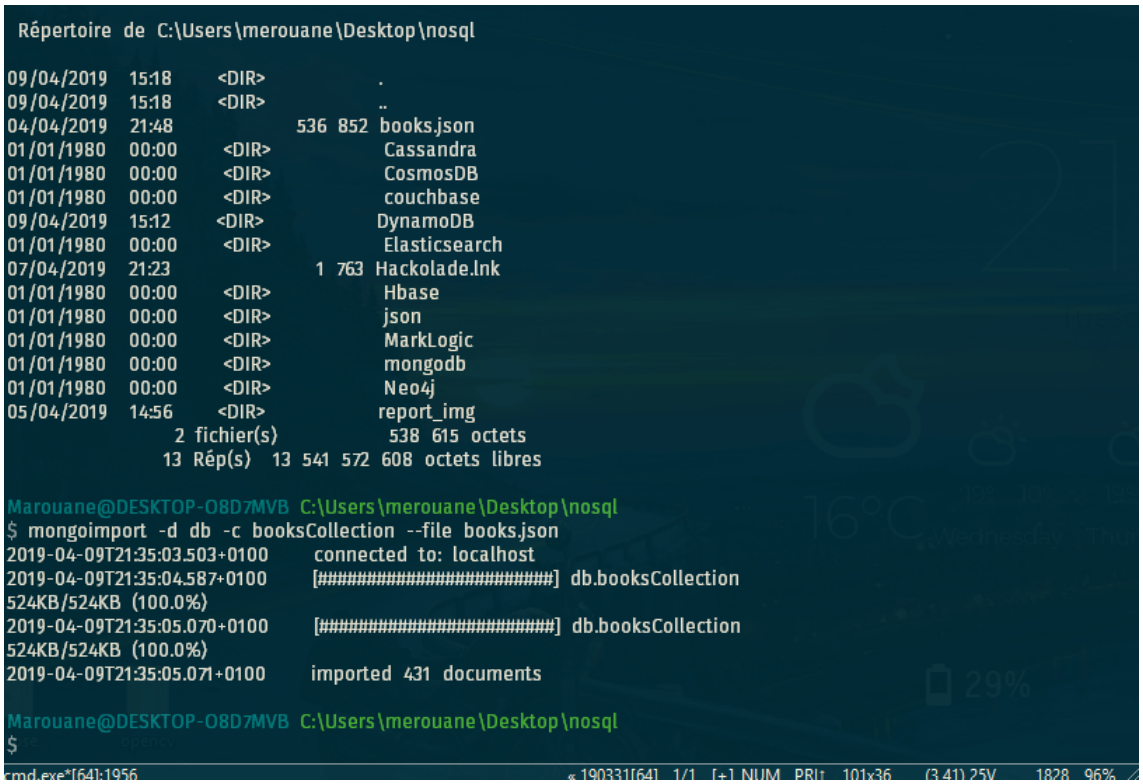

Figure 1: Importing books.json

Figure 2: Show Collections

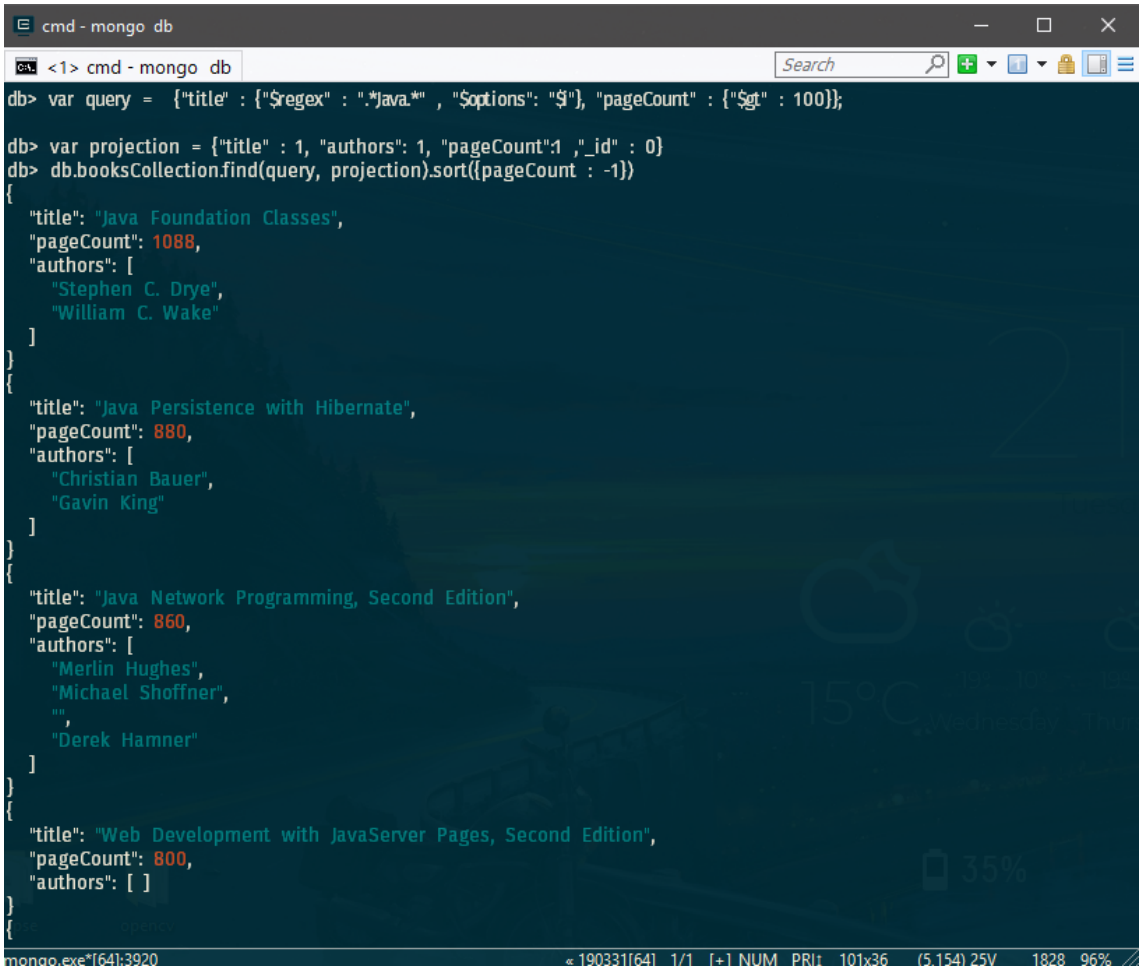

Figure 3: DataSelectQuery

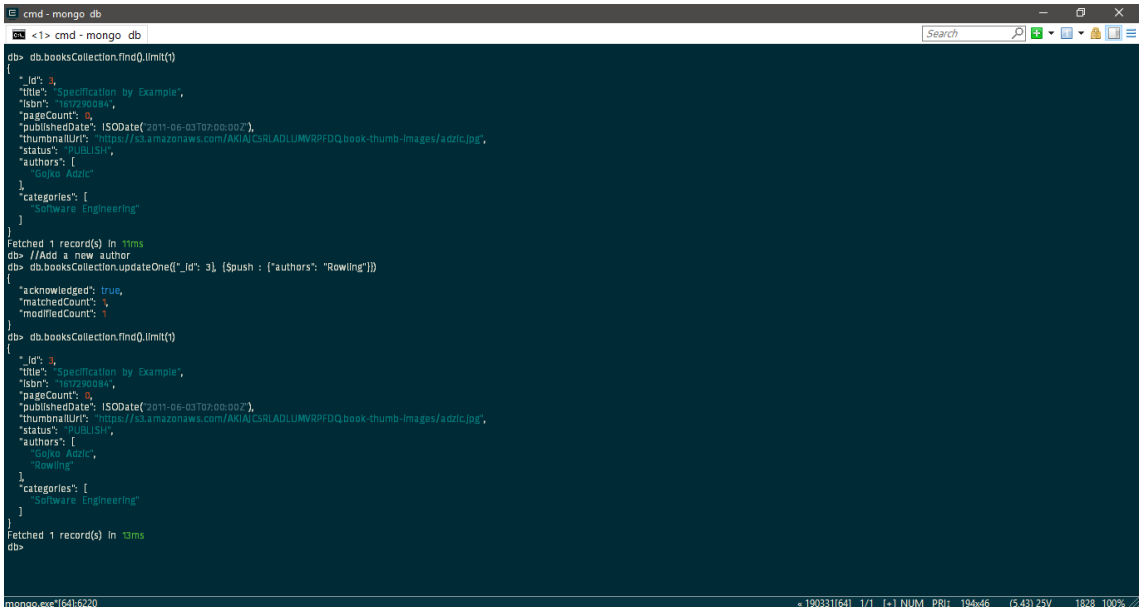

Figure 4: dataSelectNupdate

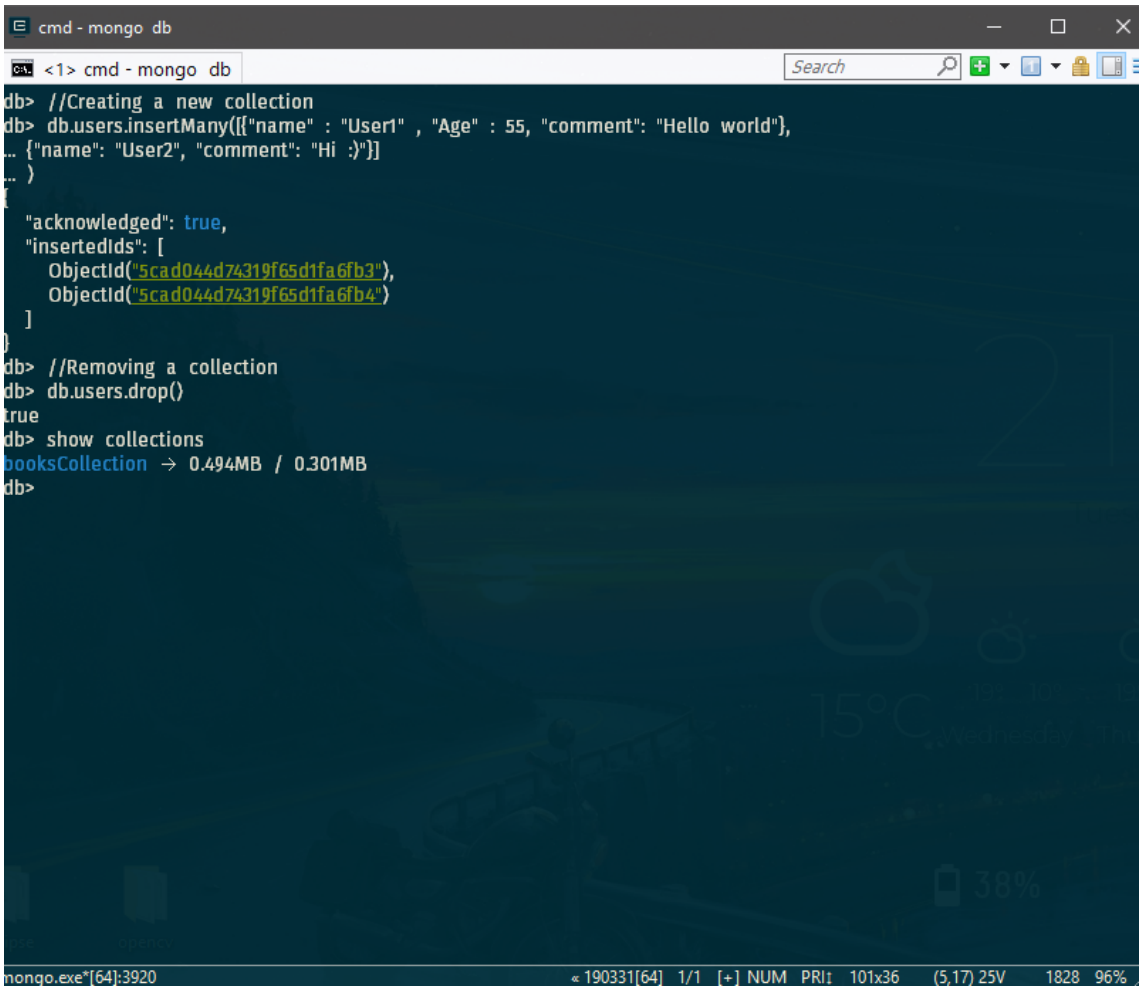

Figure 5: newCollections

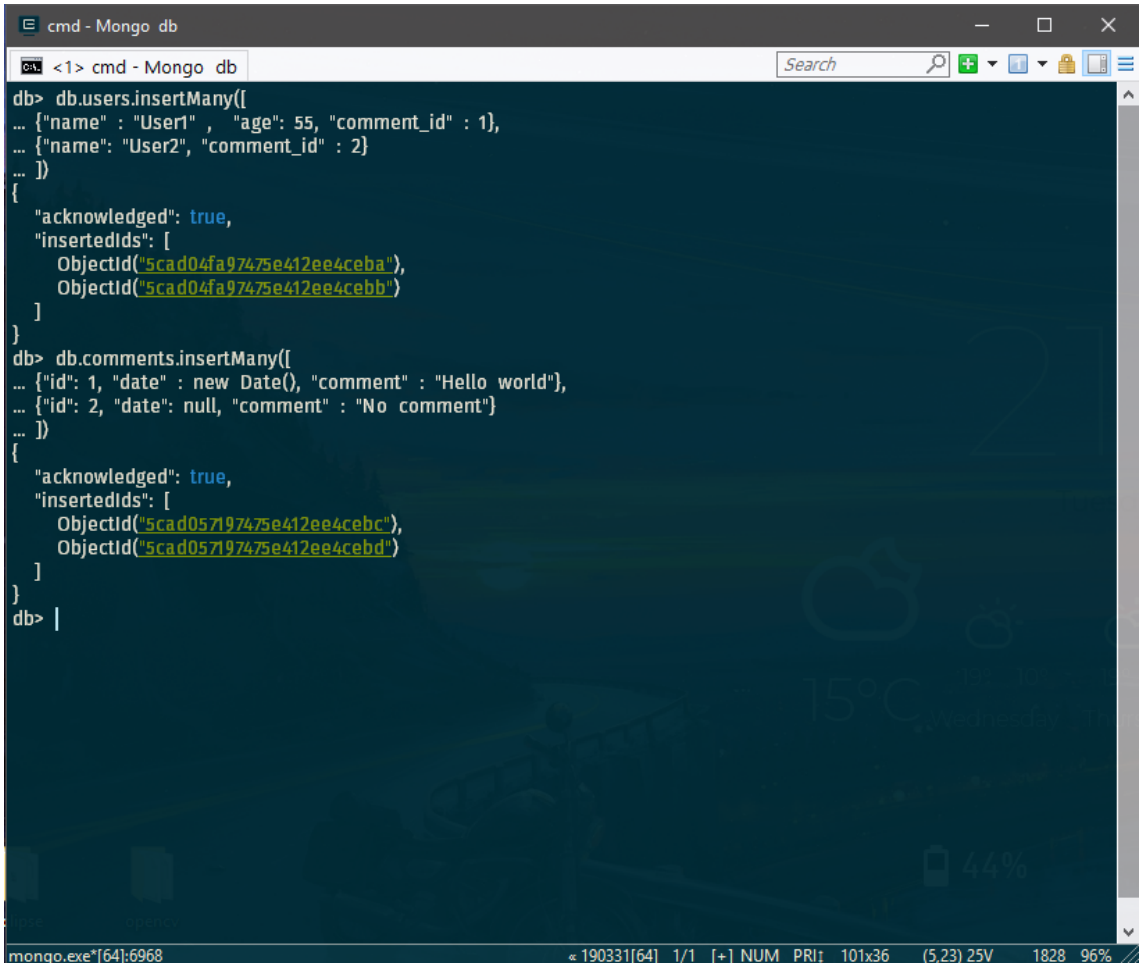

Figure 6: Insert

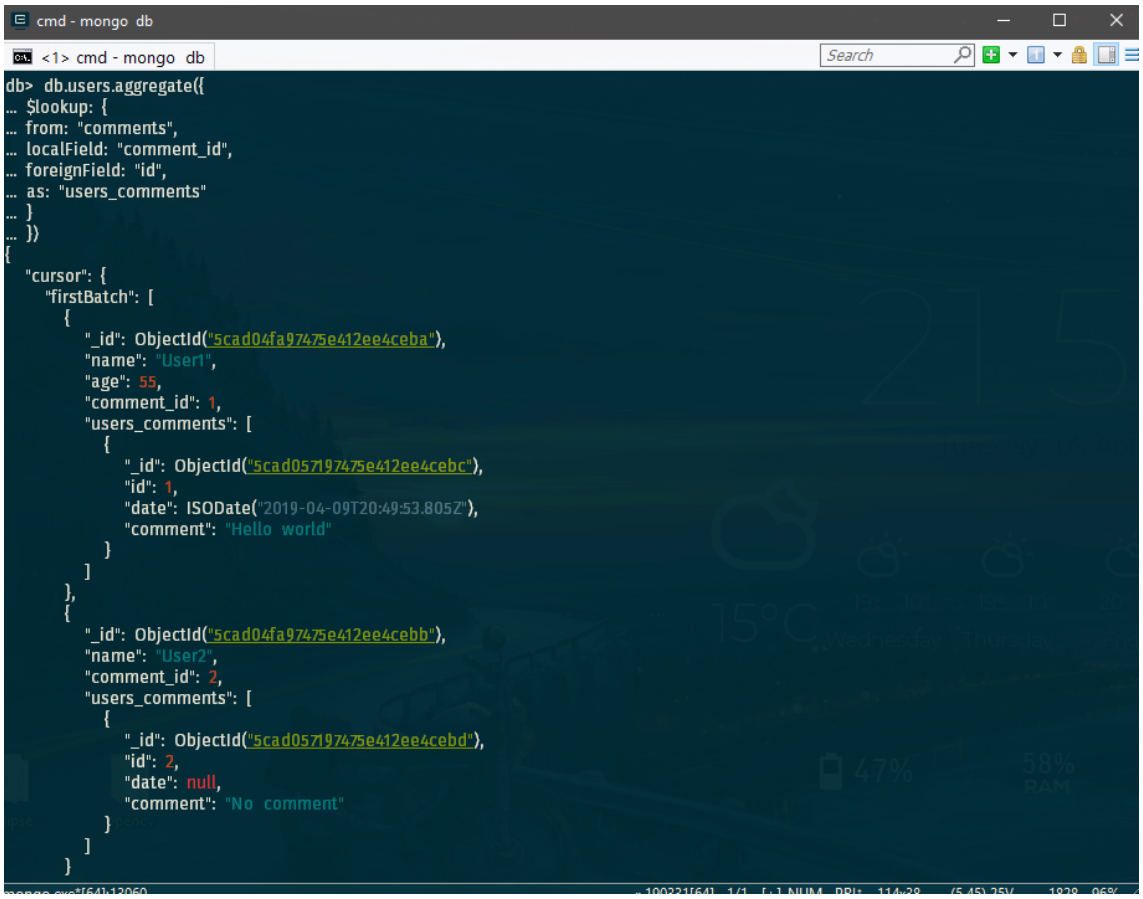

Figure 7: Join

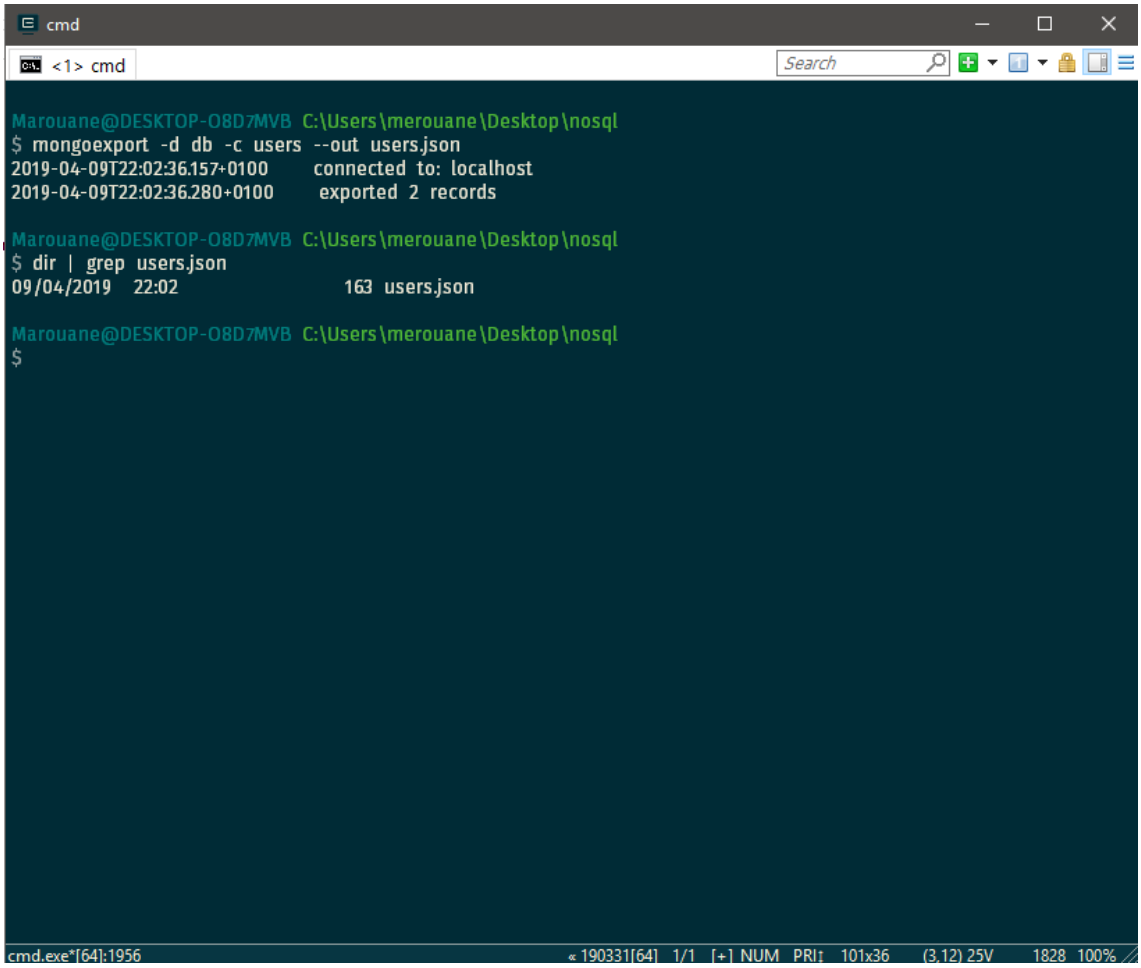

Figure 8: Export