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CIS 552: Database Design – Homework 6

# Introduction:

In order to perform CRUD operations on MongoDB deployments, I am utilizing both the MongoDB Shell and MongoDB Compass. Specifically, I am using the 'mongosh' environment to interact with the database. This setup allows for efficient and effective management of data within the MongoDB environment.

## Pre-Requisites:

Connected using MongoDB Compass

Graphical user interface, text, application, chat or text message

Description automatically generated

Connected using MongoDB Shell:

Text

Description automatically generated

# Creating a Database:

## Using MongoDB Compass:

Graphical user interface, text, application, chat or text message

Description automatically generated

The above image shows the step to create a database.

## Using MongoDB Shell:

Graphical user interface, text

Description automatically generated

In MongoDB Shell, inserting a data will create a collection if not exists.

# Inserting Document:

## Using MongoDB Compass:

Graphical user interface, application, chat or text message

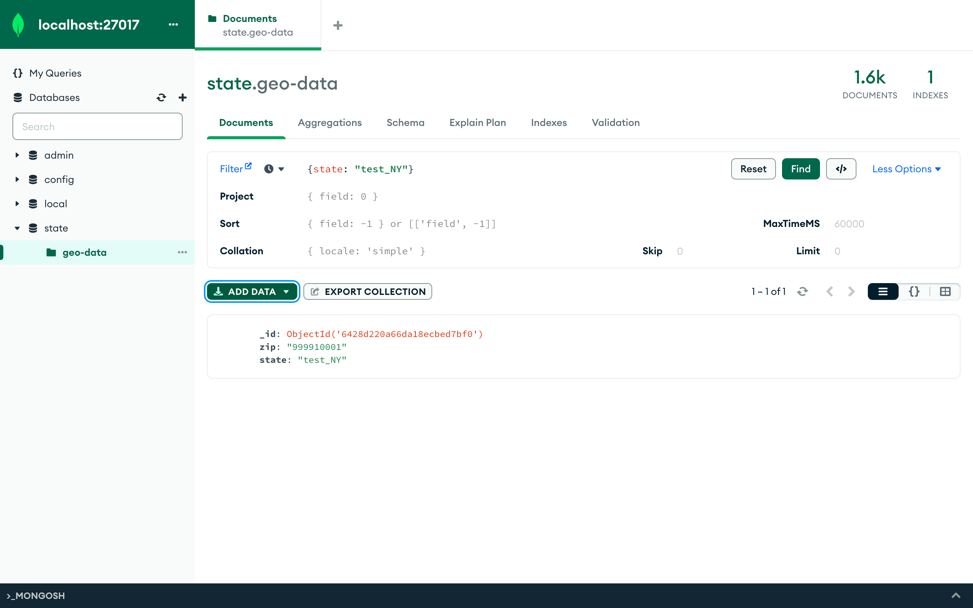
Description automatically generated

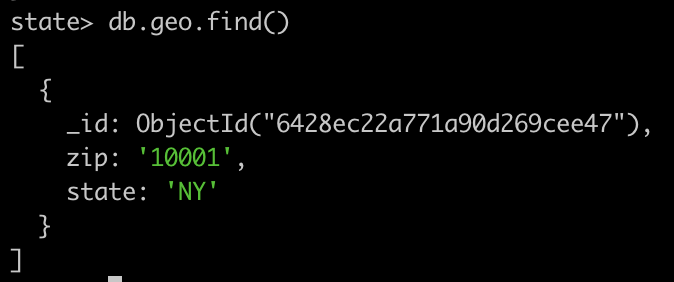
## Using MongoDB Shell:

Graphical user interface, text

Description automatically generated

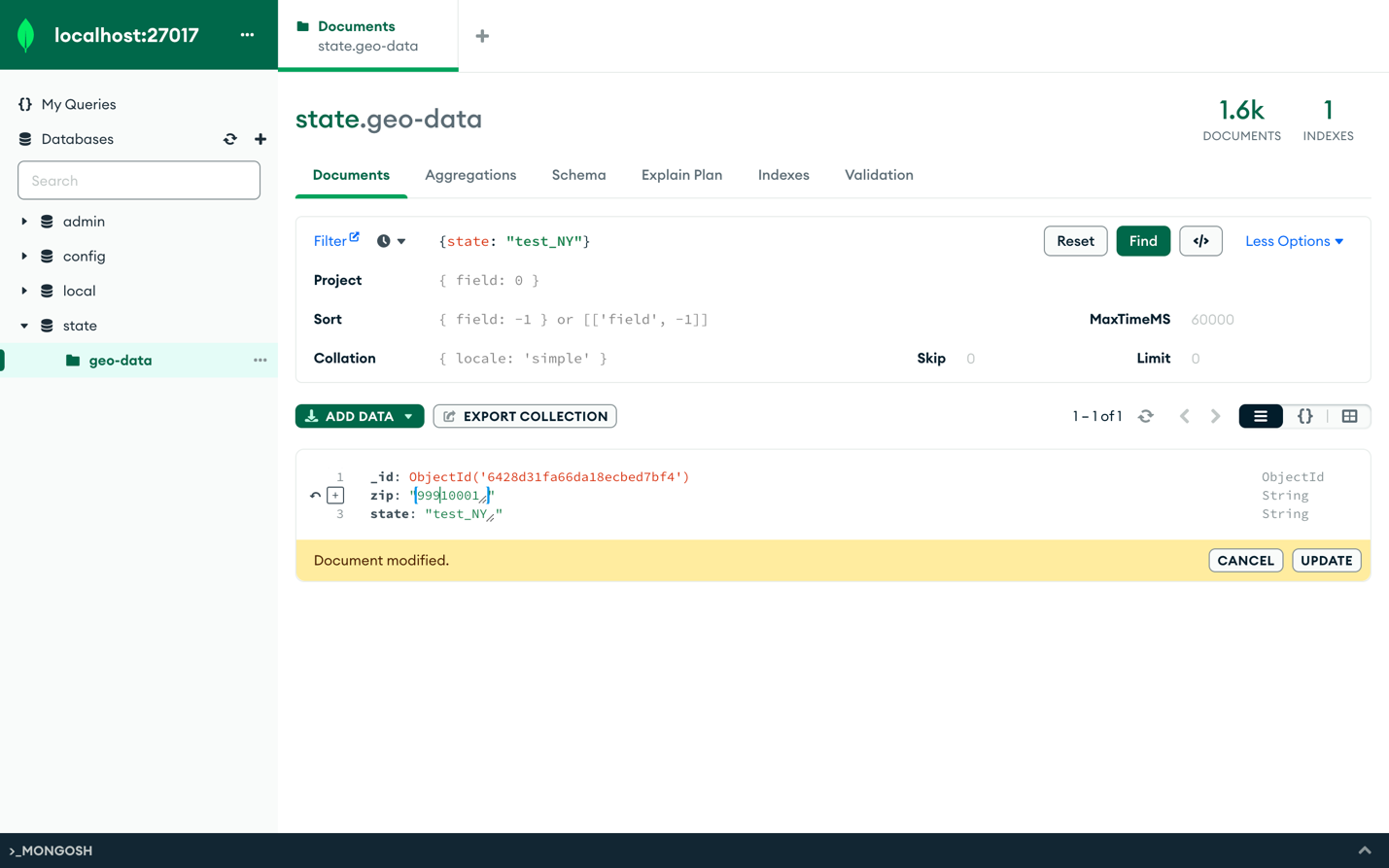
### Acknowledgement:





# Updating Document:

## Using MongoDB Compass:



## Using MongoDB Shell:



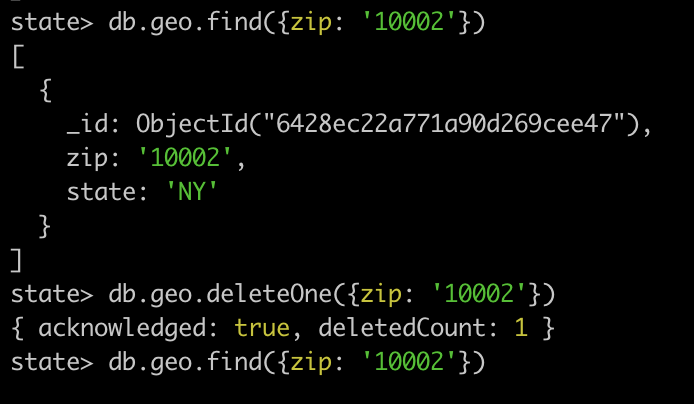
# Delete Documents:

## Using MongoDB Compass:

Graphical user interface, application, email

Description automatically generated

## Using MongoDB Shell:



Text

Description automatically generated

# Query Documents:

## Using MongoDB Compass:

Graphical user interface, text, application, email

Description automatically generated

## Using MongoDB Shell:

Text

Description automatically generated

# Import Collection:

Graphical user interface, application

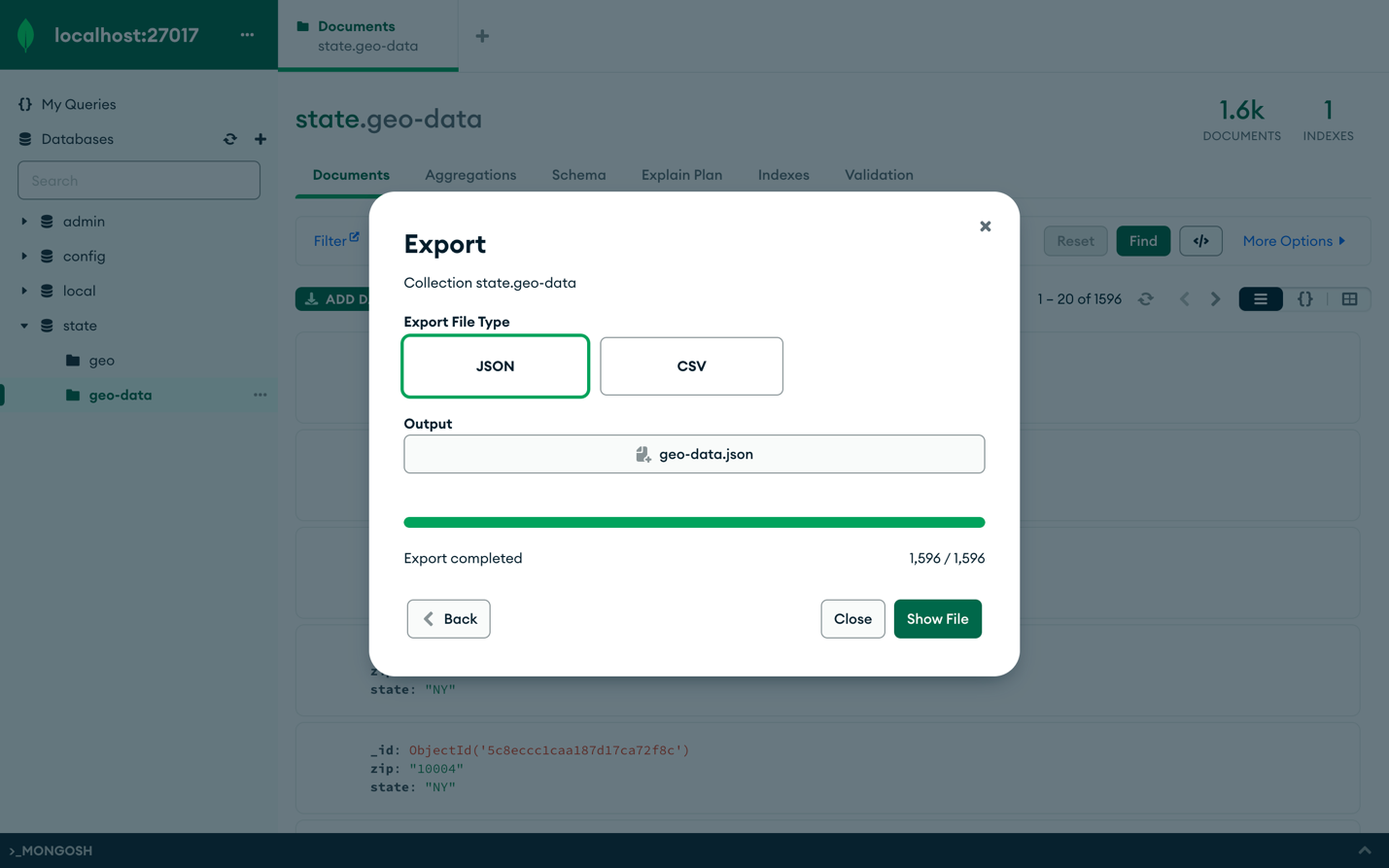
Description automatically generated

Imported Data:

Graphical user interface, text, application

Description automatically generated

# Exporting Collection:



Text

Description automatically generated

# Conclusion:

In conclusion, this assignment has provided hands-on experience with MongoDB, a popular NoSQL database system. Through the use of tools such as MongoDB Shell and MongoDB Compass, CRUD operations were performed, allowing for efficient management of data within MongoDB deployments. The 'mongosh' environment was particularly useful for interacting with the database. Additionally, MongoDB Compass was used to import and export collections, allowing for seamless data transfer between databases and backup of important data. This feature adds another layer of functionality to MongoDB Compass, making it a valuable tool in database management.