**MongoDB**

Install MongoDB

Syntax:

>mongo.exe

Text

Description automatically generated

Database

* Database is a physical container for collections.
* Each database gets its own set of files on the file system.
* A single MongoDB server typically has multiple databases.
* Create Database

Syntax

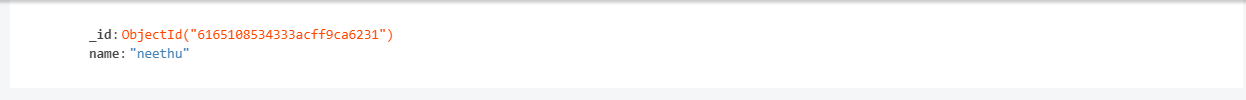
>use DATABASE\_NAME

Text

Description automatically generated

Graphical user interface, application, Teams

Description automatically generated



* DROP database

Syntax:

>db.dropDatabase()

A picture containing text

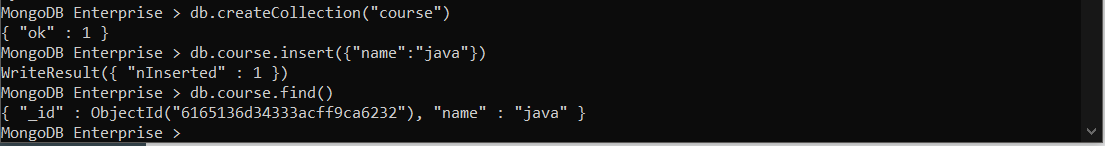
Description automatically generated

Collection

* Collection is a group of MongoDB documents.
* CREATE COLLECTION

Syntax:

db.createCollection(name, options)



Graphical user interface, application, table

Description automatically generated

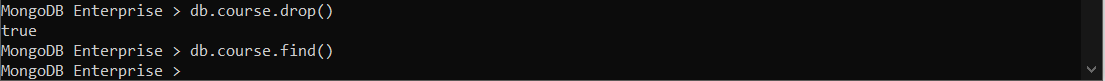
A picture containing chart

Description automatically generated

* DROP COLLECTION

Syntax:

db.COLLECTION\_NAME.drop()



Graphical user interface, application

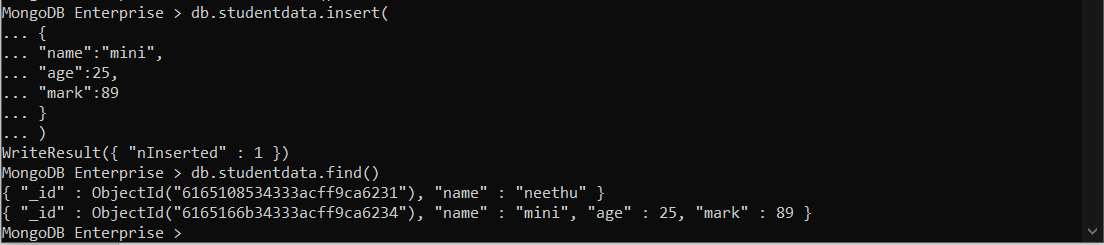
Description automatically generated

Document

* A document is a set of key-value pairs.
* Documents have dynamic schema.
* Dynamic schema means that documents in the same collection do not need to have the same set of fields or structure, and common fields in a collection's documents may hold different types of data.
* INSERT data into MongoDB collection:

Syntax:

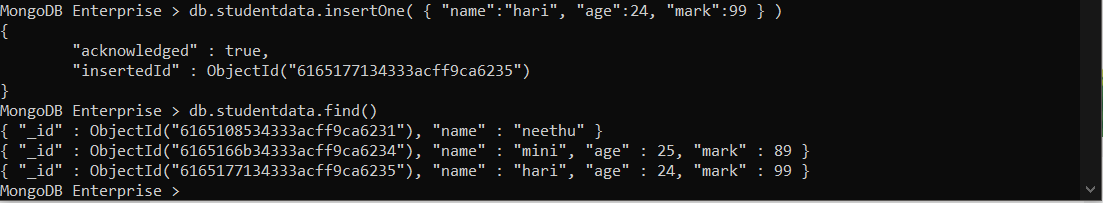
>db.COLLECTION\_NAME.insert(document)



Graphical user interface, application

Description automatically generated

>db.COLLECTION\_NAME.insertOne(document)



Graphical user interface, application

Description automatically generated

>db.COLLECTION\_NAME.insertMany(document)

Text

Description automatically generated

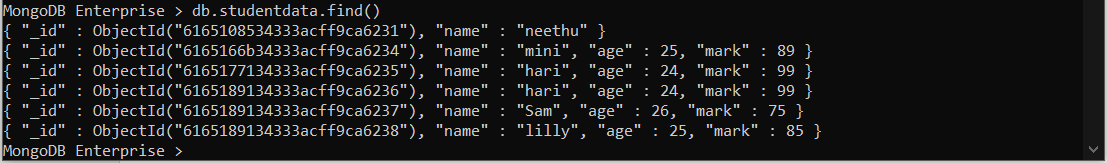
Graphical user interface, application, Teams

Description automatically generated

* find() Method:To query data from MongoDB collection

syntax :

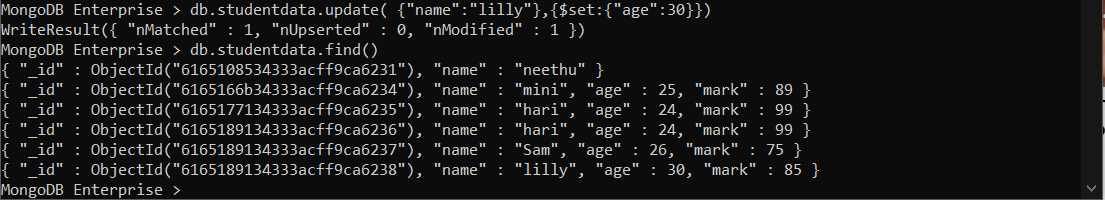
>db.COLLECTION\_NAME.find()



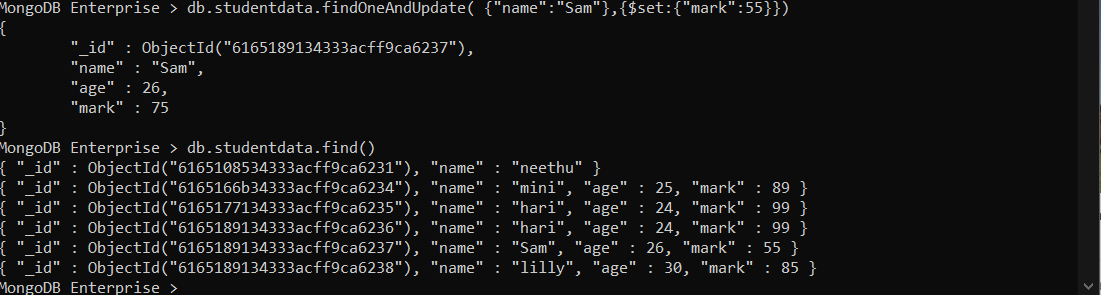
* The update() method updates the values in the existing document.

Syntax:

>db.COLLECTION\_NAME.update(SELECTION\_CRITERIA, UPDATED\_DATA)



>db.COLLECTION\_NAME.findOneAndUpdate(SELECTIOIN\_CRITERIA, UPDATED\_DATA)



>db.COLLECTION\_NAME.updateOne(<filter>, <update>)

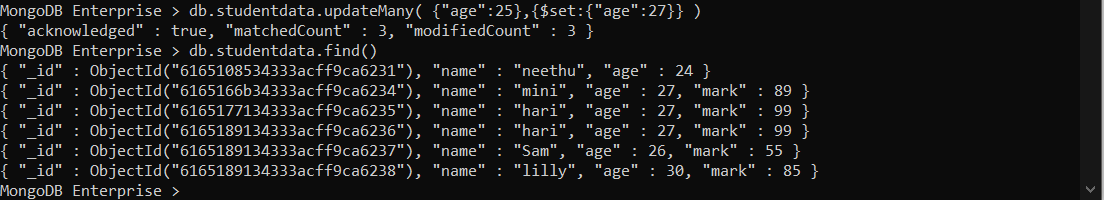
Graphical user interface, text

Description automatically generated

A picture containing graphical user interface

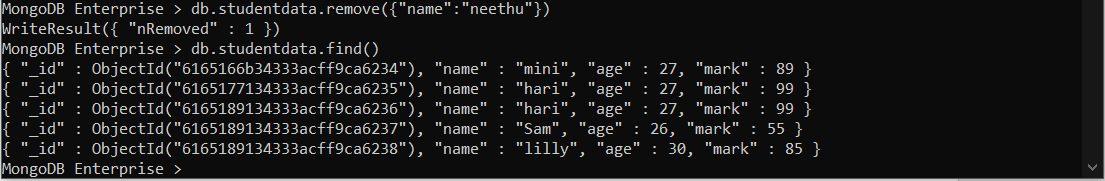
Description automatically generated

>db.COLLECTION\_NAME.updateMany(<filter>, <update>)



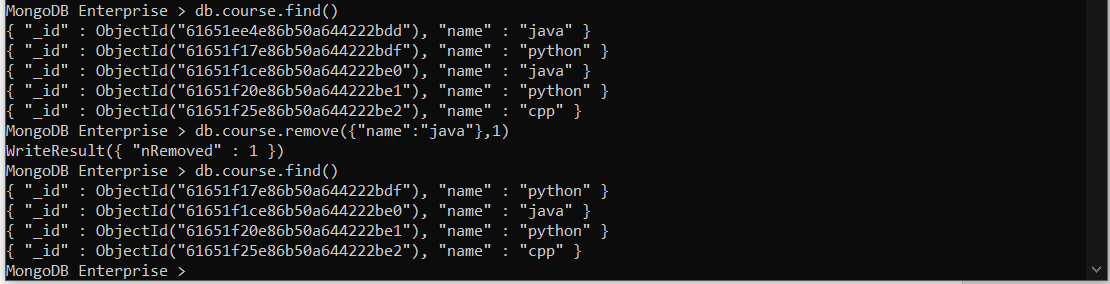
* REMOVE: used to remove a document from the collection.

>db.COLLECTION\_NAME.remove(DELLETION\_CRITTERIA)



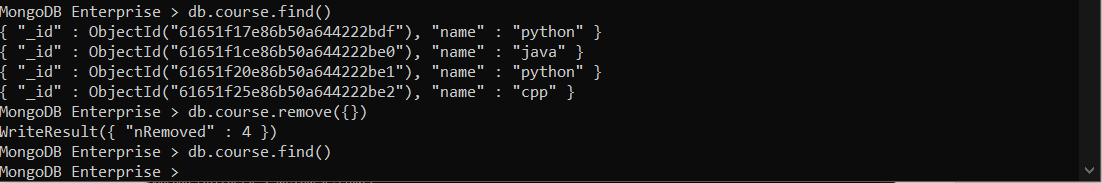
Remove one

>db.COLLECTION\_NAME.remove(DELETION\_CRITERIA,1)



Remove All Documents

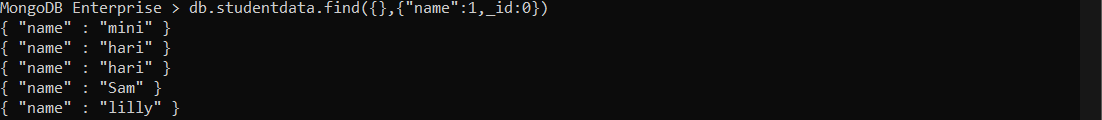
>db.COLLECTION\_NAME.remove({})



* find() Method

syntax:

>db.COLLECTION\_NAME.find({},{KEY:1})



Aggregations operations

* Aggregations operations process data records and return computed results.
* Aggregation operations group values from multiple documents together, and can perform a variety of operations on the grouped data to return a single result.
* Syntax :

>db.COLLECTION\_NAME.aggregate(AGGREGATE\_OPERATION)

Text

Description automatically generated