Assignment: B2

Title

Implement MongoDB basic operations

Problem Statement:

Implement database with suitable example using MongoDB and implement all basic operations using two tier architecture.

Theory:

1. Insert() Method

Syntax:

Basic syntax of insert() command is as follows:

db.NAMEOFCOLLECTION.insert(document)

2. find() Method

Syntax:

Basic syntax of find() command is as follows:

db.NAMEOFCOLLECTION.find()

find() method will display all the documents in a non structured way.

3. pretty() Method

Syntax :

Basic syntax of pretty() command is as follows:

db.mycol.find().pretty()

find() method will display all the documents in a structured way.

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4. Update() method_

Syntax:

Basic syntax of update() command is as follows:

db.NAMEOFCOLLECTION.update(SELECTIOINCRITERIA, UPDATEDDATA)

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

5. remove() method_

Syntax:

Basic syntax of remove() command is as follows:

db.NAMEOFCOLLECTION.remove(DELLETIONCRITTERIA))

MongoDB's remove() method is used to remove document from the collection.

6. drop() method

Syntax:

Basic syntax of drop() command is as follows:

db.NAMEOFCOLLECTION.drop())

MongoDB's db.collection.drop() is used to drop a collection from the database.

1.1 MONITORING COMMANDS

1.1.1 mongostat

Captures and returns the counts of database operations by type (e.g. insert, query, update, delete, etc.). These counts report on the load distribution on the server.

How to use:

Execute the following command through root user. #mongostat

1.1.2 mongotop

Tracks and reports the current read and write activity of a MongoDB instance, and reports these statistics on a collection basis.

How to use:

Execute the following command through root user. #mongostop

note: Observe the change in mongostat and mongotop.

1.2 PERFORMANCE COMMANDS

These shows the stat of query performance. The following command retrieves the query plan information through the ex- plain() method:

db.collection.find().explain()

1.3 SERVER STATUS

The serverStatus command returns a document that provides an overview of the database processs state.

How to use:

Execute the following command. db.serverStatus()

Conclusion

Thus we have successfully implemented all basic operations of MongoDB.