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Lat Assignment - I

Dim: Create a sample database using as Mongo DB and implement the CRUD operation

Objective: To learn NosQL database Mongo BB

To ta study and execute CRUD operation

Problem: To create a sample database using Mongo BB and implement CRUD operation

Theory:

What is Mongo DB Mongo DB is a document oncuted NoSql database used for high volume data & storage instead of using tables and rows as in the traditional reach relational database. It makes use of collection and document. Documents consists of key value pairs, collections consists of documents. It is a document model that is simple for developed to learn & use

- Characteristic of Mongo DB
 - · High performance
 - · Rich Query language · High availability

 - · Horizontal stability
 - · Support for multiple storage
- → Mongo DB Command (CRUD)

1) CReate

→ Use database name

Collection

ato collection do creat collection ("none")

- of Ensert document, and (< doc >)
- 3) Read: Reading doc from a collection db. collection find ()
- 4) Update: update the document of collection db. collection . update One ()

 ols. collection. update Many ()

 ds. collection. replace One ()
- 5) Delete: Deleting the document of a collection db. collection. delete One() db. collection. delete Many()

Enput: Customer databas

Output: Execution of all commands metional above

Platform: Windows.

Conclusion: Thus, we learn the syntax and the use of basic Mongo DB commands.

FAQS

- 1 what are CRUD operations? List some of them CRUD operation operators refer to the basic creak. Read update & delek?
- → I Create operation

 → Used to create destabase and collection

 → Errert operation to add new document into created

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- Creat collection (), insert (), insert One (), insert Many ()

2) Read Operation

-> Retrieves document from collection find, find One, find Many

31 Update Operation

→ Modify the existing document from a collection delete one, delete Many.

Compare 582 and NOSQL

584	Nosql
	_/
-> Relational Database Mgmt System	-> Distributed database Mynt system
- Vertically scallable	-> Distributed database Mgmt system -> Horizontally scallable
→ Not suitable heritarchical	-> Suitable for herizarchercal
→ Can be used for	-> Suitable for herirarchercal
	queries
- Fixed schema	-> Dynamic Scheme
	U

3 Compare and Explain Mongo, Mongod and Mongos

-> Mongo

· Enteractive shell interface to Mongo DB · Provides powerful me interface for system administrator as well as for development to test queries and operation directly with the database

· The Mongo shall is included as a part of Mongo DB server installation

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Mongod

Out is primary domain process for the Mongo DB system

Out handles data request manages data occasion perform

background management operation.

Mongod is the mongo domain in the host process

for the database when you start

o Jor a shadow cluster the mongos instance provide the interface the client application and shared cluster → The mongos instance route queries and write approaches to shareless