

Assignment No. 4

Title :- How will working on MongoDB

Objectives :- MongoDB for CURD Operations

Objective :- Using select query

- ① understand about basic concept of MongoDB
- ② To understand operation on the MongoDB.

Problem statement :-

Perform CURD operation on data using MongoDB.

Theory :-

MongoDB is a Source-available cross-platform document-oriented database program classified as NOSQL database. MongoDB uses JSON-like documents with optional schema. MongoDB's data model is a document store.

* How does MongoDB works.

MongoDB environment provide users with a Server to create database with MongoDB. MongoDB stores data as record that are made up of collection and document.

Document contain the data the user wants to store in the MongoDB database. Document are Compressed as Field and Value pairs.

* Features of MongoDB

- Replication :- MongoDB supports Sets are made at primary and Secondary Services. The primary MongoDB Server perform all the write Operations.
- Scalability :- MongoDB supports Vertical and horizontal scaling.
Vertical Scaling created by adding more power to machine, while horizontal scaling work by adding more machine to a users resources.
- Documents :- Data in MongoDB is stored in document with key-value pair instead of rows and columns. which make the data more flexible, when compared to SQL database.

C → Create

R → Read

U → Update

D → Delete

- Create Operations :- The create or insert operations are used to insert or add new document in the collection. If a collection does not exist then it creates a new collection in the database.

Create representation using the following method provided by the MongoDB.

`db.collection.insert()`

- It is used to insert a single document in the collection.

`db.collection.inserting()`

- It is used to insert multiple document.

- Read operations :-

The read operation are used to retrieve document from the collection or in other words. Read operation are used to query a collection.

- Delete Operations :-

The delete operation are used to delete or generate open document from the collection that satisfy orientation. we can perform delete operation using the following method provided by the mongoDB.

`db.collection.deleteOne()`

It is used to delete single document from the collection that satisfy the given criteria.

Conclusion :-

In this we have studied the basic concept to perform CURD operations on mongoDB.

O/P