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FINAL YEAR B.Tech

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BDA

LAB ASSIGNMENT - I

AIM:- Create a sample database using mongodb and implement CRUD operations.

OBJECTIVES:-

- To learn NOSQL database mongodb.
- To study and execute CRUD operations.

PROBLEM STATEMENT:-

To create a sample database using mongodb and implement CRUD operations.

THEORY:-

Mongodb command (CRUD):-

1) Create:-

Database \Rightarrow use database name
collection \Rightarrow `db.createCollection("mycoll")`

2) Insert document:-

`db.collection-name.insert(<doc>)`

3) Read:- Reading docs from a collection
`db.collection.find()`

4) Update:- Update document of collection.

`db.collection.updateOne()`

`db.collection.updateMany()`

`db.collection.replaceOne()`

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5) Delete: Deleting document of collⁿ.
db.collection.deleteOne()
db.collection.deleteMany()

INPUT: Customer database

OUTPUT: Execution of all commands mentioned above

PLATFORM: Windows

CONCLUSION: Thus we learn the syntax and the use of mongo db commands

FAQ'S

Q1 What are CRUD operations? List some of them.
CRUD operations refer to basic create, read, update, delete?

→ Explained in theory above.

Q2 Compare SQL and NO SQL.

SQL	NO SQL.
→ RDBMS	→ Distributed DBMS.
→ Vertically Scalable	→ Horizontally Scalable.
→ Not suitable hierarchical	→ Suitable for hierarchical.
→ Can be used for complex queries	→ Not good for complex queries
→ Fixed schema	→ Dynamic Schema

Q3 Compare and explain mongo, mongod and mongos?

→ Mongo:-

1) Interactive shell interface to mongo DB.

2) Provides powerful interface for system administrators.

3) The mongoshell is included as a part of mongodb server installation

→ Mongod :-

- It is a primary demon process for mongodb system
- It handles data request manages data on disk performs background management operation.
- Mongod is mongo daemon i.e. the host process for database when you start.

→ Mongos :-

- For a sharded cluster the mongos instance provide the interface the client application and sharded cluster.
- The mongos instance route queries ~~and write~~