

# TASK #10 CRUD OPERATIONS IN DOCUMENT DATABASES.

14/10/25

Aim: To perform mongoose using NPM design on mongo DB designing document database and performing CRUD operations like creating, inserting, querying, finding and removing operations.

Steps:

Step 1) install mongo db using following link.

<https://www.mongodb.com/tar/download/community-natty>.

Step 2) install mongosh using the below link.

<https://www.mongodb.com/docs/mongodb-shell/#download-and-install-mongosh>.

Step 3) To add the mongoDB shell binary's location to your PATH environment variable.

Open the Control panel.

Click OK to confirm your changes one each other modal.

Click OK to confirm your changes.

If your path is configured correctly a list of valid command displays

Step 4) Open mongo shell (A.O.)

Step 5) Type the CRUD Commands given in text file.

CRUD Operations:

db.createCollection("mylab")

{ "ok": 1 }

> db.mylab.insertOne({ item: "command", qty: 100, tags: ["cotton"], size: { n: 28, o: 35.5, l: 40, "cm": 34 } })

"acknowledged": true.

```
"insertedId": ObjectId("62fd13accf3990c0fue6397c"),
    }  
    > db.mylab.find({item: "Canvas"})  
    q "_id": ObjectId("62fd13accf3990c0fue6397c"),
        "item": "Canvas", "qty": 100, "tags": ["cotton"],  
        "size": {"h": 28, "w": 35, "cm": "cm"}  
> db.mylab.insertmany([{"item": "Journal", "qty": 25, "tags":  
        ["blank", "red"], "size": {"h": 14, "w": 21, "cm": "cm"}},  
        {"item": "mat", "qty": 85, "tags": ["gray"], "size":  
        {"h": 27.9, "w": 35.5, "cm": "cm"}], {"item": "mousepad",  
        "qty": 25, "tags": ["black"]}  
        "acknowledged": true,  
        "insertedIds": [  
            ObjectId("62fd1598cf3990c0fue6397d"),  
            ObjectId("62fd1598cf3990c0fue6397e"),  
            ObjectId("62fd1598cf3990c0fue6397f")  
        ]  
    }  
    "id": ObjectId("62fd13accf3990c0fue6397c"),  
        "item": "Canvas",  
        "qty": 100  
    }  
    "id": ObjectId("62fd1598cf3990c0fue6397d"),  
        "item": "Journal",  
        "qty": 100  
    }  
    "id": ObjectId("62fd1598cf3990c0fue6397d"),  
        "item": "Journal",  
        "qty": 25
```

```
3 { "-id": ObjectId("62fd1598cf3990c0fue639fe"),
  "item": "mat", "qty": 85}
```

```
{ "_id": ObjectId("62fd1598cf3990c0fue639fe"),
  "item": "mouse pad",
  "qty": 25}
```

```
3 > db.myLab.find({item: "canvas"}).pretty().sort
  ({item: 1})
```

```
{ "_id": ObjectId("62fd13accf3990c0fue639fe"),
  "item": "Canvas",
  "qty": 100
  "tag": [
    "cotton"
```

```
3 > db.myLab.deleteOne({item: "Journal"})
```

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3

```
{ "_id": ObjectId("62fd1598cf3990c0fue639fe"),
```

```
  "item": "Journal",
```

```
  "qty": 25
```

3

VEL TECH	
EX.NO.	10
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	5
TOTAL (20)	15

Result: The implementation of CRUD operations like creating, Inserting, finding and removing operations using MongoDB is successfully executed.