

Date: 14/10/25 Task: 10

CRUD operations in document database

AIM:

To perform mongoose using NPM design on mongoDB design document database and performing CRUD operations like creating, inserting, querying, finding, removing operations.

STEPS:-

Step 1) Install mongo db using following link.

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

Step 2) install mongoDB using below link.

<https://www.mongodb.com/tv/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

in the system and security category, click system.

click advanced system settings. The system window modal displays

click Environmental variables

In the System variable section, select path and click Edit. The Edit Environment variable modal displays

click New and add the file path to your mongosh binary.

click OK to confirm your changes. On each other modal, click OK to confirm your changes.

To confirm that your path environment variable is correctly configured to find mongosh, open a command prompt and enter the mongosh -help command.

If your PATH is configured correctly, a list of valid commands displays.

Step 4) open mongo shell -u.u from c program files.(mongo DB I served bin\mongod.exe)

Steps): Type the CRUD (CREATE READ UPDATE DELETE)
(COMMANDS GIVEN IN TEXT FILE)

CRUD operations:

db.createCollection("myLab")

{ "ok": 1 }

7 db.myLab.insertOne({ item: "canvas", qty: 100, tags: ["cotton"], size: { h: 28, w: 25, uom: "cm" } })

"acknowledged": true,

"insertedId": ObjectID("627dacc77990c074e6397c")

2

7 db.myLab.find({ item: "canvas" })

{ "_id": ObjectID("627dacc77990c074e6397c"), "item": "canvas", "qty": 100, "tags": ["cotton"], "size": { "h": 28, "w": 25, "uom": "cm" } }

7

7 db.myLab.insertMany([{ item: "journal", qty: 20, tags: ["blank", "red"] }, { item: "mat", qty: 85, tags: ["gray"], size: { h: 27.9, w: 21.5, uom: "cm" } }])

{ item: "mousepad", qty: 25, tags: ["gray"], size: { h: 27.9, w: 21.5, uom: "cm" } }

8.

"acknowledged": true,

"insertedIds": [

ObjectID("627d1598c7990c074e6397d"),

ObjectID("627d1598c7990c074e6397e"),

ObjectID("627d1598c7990c074e6397f")]

3 7

7 db.myLab.find({ item: "t-shirt", qty: 1 })

{ "_id": ObjectID("627d15acc77990c074e6397c"), "item": "t-shirt", "qty": 100 }

```
{ "id": object("627d1598c739900c074e6297c"), "item": "journal",  
  "qty": 25 }
```

```
{ "id": object("627d1598c739900c074e6297c"), "item": "mouse  
pad", "qty": 25 }
```

```
7db.mylab.find [], {item: 1, qty: 1}].pretty()
```

E.

```
"id": object id ("627d1598c739900c074e6297c"),  
  "item": "canvas":
```

```
  "qty": 100
```

]

E.

```
"id": object id ("627d1598c739900c074e6297c"),
```

```
  "item": "journal":
```

```
  "qty": 25
```

```
]
```

```
7db.mylab.find({item: "canvas"}).pretty() sort {item: -1})
```

```
E. "id": object id ("627d1598c739900c074e6297c"),
```

```
  "item": "canvas":
```

```
  "qty": 100
```

```
  "fass": [
```

```
    "cotton"
```

```
  ],
```

```
  "size": {
```

```
    "b": 28,
```

```
    "w": 35.5,
```

```
    " uom": "cm"
```

```
]
```

```
7db.mylab.deleteOne ({item: "journal"})
```

```
7db.mylab.find ([], {item: 1, qty: 1}).pretty()
```

E.

"id":

object id ("627d1598c739900c074e6297c"),

"item": "canvas":

"qty": 100

]

E.

"id": object id ("627d1598c739900c074e6297c"),

```

"item": "journals"
  "qty": 25
}
{
  objectID ("627d1598c72990c07e6397f"),
  "item": "mat", qty: 85
}
{
  "id",
  objectID ("627d1598c72990c07e6397f"), "item":
  "mousepad": "mat", "qty": 25
}

```

VEL TECH	
EX NO.	10
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	4
RECORD (5)	4
TOTAL (20)	14
WITH DATE	15/10/2022

LGW

Result: The implementation of crud operations like creating, inserting, finding and removing operations using mongoDB successfully executed

