

14/10/2025

## Task - 10.

### CRUD OPERATIONS IN DOCUMENT DATABASES

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

#### Steps:

Step 1: install Mongo db using following link

<https://www.mongodb.com/try/download/community>

Step 2: 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

Step 3: open mongo shell 4.0 from c:\program files\mongo DB\serve\bin\mongod.exe.

Step 4: Type the CRUD (CREATE READ UPDATE DELETE) commands given in Text file.

#### CRUD Operations:

db.createCollection("my lab")

{ "ok" : 1 }

> db.mylab.insertOne({ item: "Canvas", qty: 100, tags: ["cotton"], size: { h: 25, w: 35, uom: "cm" } })

{

"acknowledged": true,

"insertedId": ObjectId("627d13acc73990")

}

> db.mylab.find({ item: "Canvas" })

{ "\_id": ObjectId("627d13acc73990"), "item": "Canvas", "qty":

> db.mylab.insertMany([ { item: "Journal", qty: 25, tags: ["blank", "led"]

{ "acknowledged": true



insertsIds: [

objectId("627d1598c739903"),

objectId("627d1598c73990e"),

objectId("627d1598c73990f");

]

}

> db.mylab.find([{}], {item: 1, qty: 1})

{ "\_id": objectId("627d13acc7399c074e6397c"), "item":  
"canvas", "qty": 100 }

{ "\_id": objectId("627d13acc7399c07466397d"), "item":  
"canvas", "qty": <sup>25</sup>~~100~~ }

{ "\_id": objectId("627d13acc7399c07466397f"), "item":  
"canvas", "qty": 85 }

{

"\_id": objectId("627d13acc"),

"item": "canvas",

"qty": 100

}

{

"\_id": objectId("627d1598c")

"item": "Journal"

"qty": 25

}

{ "\_id": objectId("627d1598c73990"), "item": "mat",

"qty": 85 }

"\_id": objectId("627d1598").

"item": "mouse pad",

"qty": 25

}

> db.mylab.find({item: "canvas"}).

{

"\_id": objectId("627d13acc"),



```

    "item": "canvas",
    "qty": 100,
    "tags": [
      "cotton"
    ],
    "size": {
      "h": 28,
      "w": 35.5,
      "uom": "cm"
    }
  }
}
> db.mylab.deleteOne({item: "journal"})

```

```

> db.mylab.find({}, {item: 1, qty: 1})
{
  "_id": ObjectId("627d13ac"),
  "item": "canvas",
  "qty": 100
}
{
  "item": "journal",
}
{
  "_id": ObjectId("627d1598c73990c"), "item": "mat"
}

```

VEL TECH	
EX NO.	110
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	1
TOTAL (20)	16
SIGN WITH DATE	

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