

14/10/25  
TASK 10.

## CRUD OPERATIONS IN DOCUMENT DATABASE

APPRO:-

To perform mongoDB using NPM design on mongo DB 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/try/download/community>

Step-2:

Install mongosh using the below link.

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

Step-3:-

To add the mongo DB shell binary location to your path environment variable

Open the control panel

In the system and security category - click <sup>System</sup>  
click Advanced system settings. The system properties modal displays

click Environment Variables

In the System Variables section, select Path and click Edit. The Edit environment variable modal displays

click New and add the file path ~~create~~  
to your Change mongosh binary

click ok to confirm your changes. on each

Other model : click ok to confirm your changes.  
click ok to your changes. or -edit -other model

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

PF your path is configured correctly or  
Lst DF invalid commands displays

Step-4) Open mongo shell u-o from c:\ program  
files\mongo DB\server\bin\mongod.exe

Step-5) Type the CRUD (Create Read Update Delete) commands given in test file

## CRUD Operations

db.createCollection("myLab").

{ "OK": 14 }

```
> d b. mylab Insert One[{"item": "canvass", qty: 100,  
tags: ["cotton"]}, {size: "h:28 mm : 35-5. uam : 11 cm"]  
]} ]
```

"acknowledged": true,

"Patient ID": Object ID ("B27d13ac73990e0  
74e6397c11")

~~>db.mybib.find({item: "kanvar" })~~

{ "id": "ObjectID\_14627d13acc73970c074e63f7c", "item": "canavar", "qty": 100, "tag": "

④ [ Cotton ] , "size" = { "h" = 28, "w" = 35.5, "Uom" "cm" } }

> db.mylab.insertMany([{"item": "journal", "qty": 25, "tags": ["blank", "red"]}, {"size": {"h": 14, "w": 21, "uom": "cm"}, "type": "mat", "qty": 85, "tags": ["gray"]}, {"size": {"h": 27, "w": 35, "uom": "cm"}, "type": "mousepad", "qty": 25}], {allowDiskWriteConflict: true})

{ "type": "mousepad", "qty": 25, "tags": ["gray"], "size": {"h": 27, "w": 35, "uom": "cm"}, "allowDiskWriteConflict": true}, {"type": "journal", "qty": 25, "tags": ["red"], "size": {"h": 14, "w": 21, "uom": "cm"}, "allowDiskWriteConflict": true}, {"type": "mat", "qty": 85, "tags": ["gray"], "size": {"h": 27, "w": 35, "uom": "cm"}, "allowDiskWriteConflict": true}

" acknowledged": true,

" acknowledged": false

Object ID ("627d1598c73990c074e6397d"),

Object ID ("627d1598c73990c074e6397e")

Object ID ("627d1598c73990c074e6397f")

}

> db.mylab.find({}).size(1).qty(100)

{"pd": ObjectID("627d1598c73990c074e6397c")}

{"id": ObjectID("627d1598c73990c074e6397d"), "item": "canvas", "qty": 100},  
{"item": "journal", "qty": 25}

{"pd": ObjectID("627d1598c73990c074e6397e"), "item": "mat", "qty": 85}

{"pd": ObjectID("627d1598c73990c074e6397f"), "item": "mousepad", "qty": 25}

> db.mylab.find({}).size(1).qty(100).pretty()

{"pd": ObjectID("627d1598c73990c074e6397c"),  
"item": "canvas",  
"qty": 100}

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"\_id": ObjectId("627d1598c73990c074e6397d"),  
"item": "journal",  
"qty": 25  
},  
{"\_id": ObjectId("627d1598c73990c074e6397e"),  
"item": "that", "qty": 853}

"\_id": ObjectId("627d1598c73990c074e6397f"),  
"item": "mouse pad",  
"qty": 25  
},  
> db.myLab.find({item: "canvas"}).pretty() + sort(item=1)

{"\_id": ObjectId("627d13a473990c074e63981"),  
"item": "canvas",  
"qty": 100,  
"tags": [],  
"cotton": 1,  
"size": 2,  
"w": 28,  
"h": 35.5,  
"uom": "cm"}

> db.myLab.deleteOne({item: "journal"});

> db.myLab.find({item: 1, qty: 1}).pretty()

"\_id": ObjectId("627d13a473990c074e6397e"),  
"item": "canvas",  
"qty": 100

"\_id": ObjectId("627d1598c73990c074e6397d"),  
"item": "canvas",  
"qty": 100

"\_id": ObjectId("627d1598c73990c074e6397e"),  
"item": "journal",  
"qty": 25

"  
" - id": ObjectID("1f627d1598c73290c674e6397e11"), "item"  
": "movie", "qty": 853,

" - Pdv": ObjectID("1f627d1598c73290c574e6, 597f4"), "item",  
"movie": "Pdv", "qty": 254}

### RESULT:-

Thus implementation of CRUD operations like creating, inserting, finding and removing operations using mongo DB is successfully executed

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

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HJD