

## Task 10: CRUD Operation in <sup>Document</sup> Database

14/10/23

To perform Mongo using NPM Design on Mongo DB designing document database and performing CRUD operation like creating inserting, querying finding and removing operation:

Steps:

Step 1: install Mongo db using following link

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

Step 2: To add the mongo ~~shell~~ using the below link

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

Step 3: To add the mongo 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 properties

Step 4: Open mongo shell 4.0 from ~~C:\Program Files~~

mongod.exe

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

CRUD Operations

```
db.createCollection("mylab")
```

```
{ "ok": 1 }
```

```
> db.mylab.insertOne({ canvas: 100, tags:
```

```
{ "cotton": 1, size: { h: 28, w: 35.5, uom: "cm" } })
```

```
{ "acknowledged": true }
```



```

=> db.mylab.find({item: "Canvas"})
{"_id": Object Id ("627d13acc73990c074e6397d"), "item":
  "Canvas", "qty": 100, "tags": ["cotton"], "size":
  {"h": 25, "w": 35.5, "uom": "cm", "l": "m" 333}}

```

```

{
  "acknowledged": true
  "insertedIds": [
    Object Id ("627d1598c73990c074e6397d"),
    Object Id ("627d1598c73990c074e6397d"),
    "item": "journal", "qty": 25
  ]
  Object Id ("627d1598c73990c074e6397d");
}

```

```

=> db.mylab.find({item: 1, qty: 13})

```

```

{"_id": Object Id ("627d1598c73990c074e6397d"), "item": "Canvas", "qty":
  100
}

```

```

{"_id": Object Id ("627d1548c73990c074e6397d"), "item":
  "journal", "qty": 25.
}

```

```

{"_id": Object Id ("627d1548c73990c074e6397d"), "item": "mat", "qty":
  853
}

```

```

{"_id": Object Id ("627d1598c73990c074e6397d"), "item":
  "mouse pad", "qty": 25
}

```

```

=> db.mylab.find({item: "Canvas"}) pretty().
  sort({item: -1}).

```

```

"item": "Canvas",
"qty": 100,
"tags": [
  "cotton"
],

```



"size": 5

"h": 28,

"w": 35.5

"uon": "em"  
3

adb mylab.delete one {item: "Journal"}

adb mylab.find {23, {item: 1, qty: 2} 3. pretty

{  
"id": Object Id ("627d13acc73990c74e6397d").

"item": "canvas";

"qty": 100

3

{  
"id": Object Id ("627d1598c73990c074e6397d"),

"item": "Journal";

"qty": 15

3

{ "id": Object Id ("627d1598c73990c074e6397d"),

"item": "mat", "qty": 85}

{

"id": Object Id ("627d1598c73990c074e6397d"),

"item": "mousepad", "qty": 25}

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EX NO.	10
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	2
RECORD (5)	
TOTAL (20)	12
SIGN WITH DATE	14/10

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