

9/9/25 Task 8

## CRUD operations in Document databases

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

### STEPS:

Step 1: Install mongo db using following link

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

Step 2: install mongosh using below link

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

Step 3: To add MongoDB shell binary's location to your path

3.1 open the control panel

3.2 in system and security category, click system.

3.3 click Advanced system setting. The system properties modal displays

3.4 Click environment variables

3.5 in system variables section, select path and click edit.

3.6 click new and add filepath to mongosh binary

3.7 click ok to confirm your changes. on each other modal.

Click ok to confirm

Step 4: To confirm your path environment variable correctly configured to find mongosh, open command prompt and enter mongosh --help command. If your path is configured correctly, a list of valid command displays.

Step 5: open mongo shell 4.0 from

C:\program files\mongo DB\server\bin\mongod.exe.

Step 6: Type CRUD (create Read update delete) commands

GIVEN IN TEXT FILE.



## CRUD OPERATIONS :

db.create collection ("Cricket Board")

{ "ok": 1 }

> db.Cricket Board.insert one({ Board ID: "BID 01",  
Name: "Chennai Cricket Board",  
Address: "Chennai", phone: 99887766993});

{  
"acknowledged": true,

"inserted\_id":

objectId("651cf1726ebbf7993adf909")

db.mylab.find({ Board ID: "BID 01" })

{ "\_id": objectId("651cf1726ebbf7993adf909"),

"Board ID": "BID 01", "Name": "Chennai Cricket Board",

"Address": "Chennai", "phone": 99887766993

db.Cricket Board.insert many([ { Board ID: "BID 02", Name: "Tiruvallur Cricket Board", Address: "Chennai", phone:

9160587758 }, { Board ID: "BID 03", Name: "Viluppuram Cricket Board", Address: "Viluppuram", phone: 9110587758 },

{ Board ID: "BID 04", Name: "Tiruchy Cricket Board",

Address: "Tiruchy", phone: 9955886699 } ]

{

"acknowledged": true;

"insertedId": [

objectId("651ceee36ebb7993adf904"),

objectId("651ceee36ebb7993adf905"),

objectId("651ceee36ebb7993adf906");

] ]

}



db.CricketBoard.find()

```
{ "_id": ObjectId("651ceee36ebbfe7993adf904"),  
  "Board ID": "BID02", "Name": "Tiruvallur Cricket  
Board", "Address": "Chennai", "phone": 9988665533 }
```

```
{ "_id": ObjectId("651ceee36ebbfe7993adf905"),  
  "Board ID": "BID03", "Name": "Viluppuram Cricket  
Board", "Address": "Viluppuram", "phone": 9966886699 }
```

```
{ "_id": ObjectId("651ceee36ebbfe7993adf906"),  
  "Board ID": "BID04", "Name": "Tiruchy Cricket Board",  
  "Address": "Tiruchy", "phone": 9160587758 }
```

```
{ "_id": ObjectId("651ceee36ebbfe7993adf907"), "Board ID":  
  "BID05", "Name": "Machy Cricket board", "Address": "Madurai",  
  "phone": 9160587758 }
```

db.CricketBoard.find().pretty()

```
{  
  "_id": ObjectId("651ceee36ebbfe7993adf904"),  
  "Board ID": "BID02",  
  "Name": "Tiruvallur Cricket Board",  
  "Address": "Chennai",  
  "phone": 9160587758  
}
```

```
{  
  "_id": ObjectId("651ceee36ebbfe7993adf905"),  
  "Board ID": "BID03",  
  "Name": "Viluppuram Cricket Board",  
  "Address": "Viluppuram",  
  "phone": 9966332244  
}
```



```
"_id":  
objectId("651cee36ebbf7993ad7906"),  
"Board ID": "BTDO4",  
"Name": "Trichy Cricket Board",  
"Address": "Trichy",  
"phone": 9160587758
```

```
{  
  "_id":  
  objectId("651cee36ebbf7993ad7907"),  
  "Board ID": "BTDO5",  
  "Name": "Madhurai Cricket Board",  
  "Address": "Madhurai",  
  "phone": 9944886699  
}
```

```
db.cricketBoard.deleteOne({Board ID: "BTDO3"})  
{ "acknowledged": true, "deletedCount": 1 }  
db.cricketBoard.find().pretty()
```

```
"_id":  
objectId("651cee36ebbf7993ad7904"),  
"Board ID": "BTDO2",  
"Name": "Tiruvallur Cricket Board",  
"Address": "Chennai",  
"phone": 996248120
```

```
{  
  "_id":  
  objectId("651cee36ebbf7993ad7906"),  
  "Board ID": "BTDO4",  
  "Name": "Trichy Cricket Board",  
  "Address": "Trichy",  
  "phone": 9955886699
```



```

{
  "_id": "object Id ('651cee36ebbf7993adf907')",
  "Board ID": "BID05",
  "Name": "Madurai Cricket Board",
  "Address": "Madurai",
  "Phone": 9573926429
}

```

```

{
  "_id": "object Id ('651cf1726ebbf7993adf909')",
  "Board ID": "BID01",
  "Name": "Chennai Cricket Board",
  "Address": "Chennai",
  "Phone": 9110887758
}

```

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PERFORMANCE (5)	
RESULT AND ANALYSIS (5)	
VIVA VOCE (5)	
RECORD (5)	
TOTAL (20)	
SIGN WITH DATE	

Result: Thus CRUD using NPM design on mongodb designing document database and performing CRUD operations like creating, inserting, querying, finding, removing, operations are performed.