

1/1/22 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 model. 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 from

C:\Program Files\mongoDB\server\bin\mongod.exe

Step 6: Type CRUD (Create Read Update Delete) commands

Given in TEXT FILE.

CRUD OPERATIONS :

db.createCollection("crick Board")

db.CricketBoard.insertOne({Board ID: "B1D01",

Name: "chennai Cricket Board", "Address": "brass",

Address: "chennai", phone: 9988776699},

{"acknowledged": true,

"inserted ID":

object ID("651cf1726ebbfe7993ad909")

ab.myLabFind({Board ID: "B1D01"},

{"id": object ID("651cf1726ebbfe7993ad909"),

"Board ID": "B1D01", "Name": "chennai cricket Board",

"Address": "Chennai", "Phone": 9988776699}

db.CricketBoard.insertMany([{"Board ID": "B1D02", Name: "Tiruvallur Cricket Board", Address: "chennai", Phone:

9160587758}, {"Board ID": "B1D03", Name: "Viluppuram",

cricket Board", Address: "Viluppuram", Phone: 9110587758},

{"Board ID": "B1D04", Name: "Tiruchy Cricket Board",

Address: "Tiruchy", phone: 9955886699},

{

"acknowledged": true,

"inserted Id": [

object ID("651ceee36ebb7993ad904"),

object ID("651ceee36ebb7993ad905"),

object ID("651ceee36ebb7993ad906"));

]

}

db.CricketBoard.find()

{ "id": objectID("651ceee36ebbfe7993adfa04") }

"Board ID": "B1D02", "Name": "Tiruvallur Cricket Board", "Address": "Chennai", "Phone": "9988665533" }

{ "id": objectID("651ceee36ebbfe7993adfa05") }

"Board ID": "B1D03", "Name": "Viluppuram Cricket Board", "Address": "Viluppuram", "Phone": "9966886699" }

{ "id": objectID("651ceee36ebbfe7993adfa06") }

"Board ID": "B1D04", "Name": "Trichy Cricket Board", "Address": "Trichy", "Phone": "9160587758" }

{ "id": objectID("651ceee36ebbfe7993adfa07") }, "Board ID":

{ "id": objectID("651ceee36ebbfe7993adfa04"), "Name": "Madurai", "Address": "Madurai", "Phone": "9160587758" }

{ "id": objectID("651ceee36ebbfe7993adfa05"), "Name": "Nagpur Cricket Board", "Address": "Nagpur", "Phone": "9160587758" }

{ "id": objectID("651ceee36ebbfe7993adfa06"), "Name": "Mumbai Cricket Board", "Address": "Mumbai", "Phone": "9160587758" }

{ "id": objectID("651ceee36ebbfe7993adfa07"), "Name": "Delhi Cricket Board", "Address": "Delhi", "Phone": "9160587758" }

{ "id": objectID("651ceee36ebbfe7993adfa04"), "Name": "Karnataka Cricket Board", "Address": "Bangalore", "Phone": "9160587758" }

{ "id": objectID("651ceee36ebbfe7993adfa05"), "Name": "Kerala Cricket Board", "Address": "Kochi", "Phone": "9160587758" }

{ "id": objectID("651ceee36ebbfe7993adfa06"), "Name": "Gujarat Cricket Board", "Address": "Ahmedabad", "Phone": "9160587758" }

{ "id": objectID("651ceee36ebbfe7993adfa07"), "Name": "Rajasthan Cricket Board", "Address": "Jaipur", "Phone": "9160587758" }

{ "id": objectID("651ceee36ebbfe7993adfa04"), "Name": "Haryana Cricket Board", "Address": "Panipat", "Phone": "9160587758" }

{ "id": objectID("651ceee36ebbfe7993adfa05"), "Name": "Punjab Cricket Board", "Address": "Ludhiana", "Phone": "9160587758" }

{ "id": objectID("651ceee36ebbfe7993adfa06"), "Name": "Himachal Pradesh Cricket Board", "Address": "Shimla", "Phone": "9160587758" }

{ "id": objectID("651ceee36ebbfe7993adfa07"), "Name": "Jammu & Kashmir Cricket Board", "Address": "Srinagar", "Phone": "9160587758" }

{ "id": objectID("651ceee36ebbfe7993adfa04"), "Name": "Assam Cricket Board", "Address": "Guwahati", "Phone": "9160587758" }

{ "id": objectID("651ceee36ebbfe7993adfa05"), "Name": "Meghalaya Cricket Board", "Address": "Shillong", "Phone": "9160587758" }

{ "id": objectID("651ceee36ebbfe7993adfa06"), "Name": "Sikkim Cricket Board", "Address": "Gangtok", "Phone": "9160587758" }

```
"_id": "651ceee36ebbfef7993adff906", "objId": "651ceee36ebbfef7993adff906", "board": "Trichy Cricket Board", "name": "Trichy Cricket Board", "address": "Trichy", "phone": "9160587758", "city": "Trichy", "state": "Tamil Nadu", "country": "India", "lat": 11.5, "long": 78.5}
```

```
"_id": "651ceee36ebbfef7993adff907", "objId": "651ceee36ebbfef7993adff907", "board": "Madhurai Cricket Board", "name": "Madhurai Cricket Board", "address": "Madhurai", "phone": "9944886699", "city": "Madhurai", "state": "Tamil Nadu", "country": "India", "lat": 11.5, "long": 78.5}
```

```
db.cricketBoard.deleteOne({BoardID: "B1D03"})
```

```
{ "acknowledged": true, "deletedCount": 1 }
```

```
db.cricketBoard.find().pretty()
```

```
{
```

```
    "_id": "651ceee36ebbfef7993adff904",  
    "BoardID": "B1D02",  
    "Name": "Tiruvallur Cricket Board",  
    "Address": "Chennai",  
    "Phone": "996248120",  
    "City": "Chennai",  
    "State": "Tamil Nadu",  
    "Country": "India",  
    "Lat": 13.0, "Long": 80.0}
```

```
}
```

```
ObjectID("651ceee36ebbfef7993adff906"),  
"BoardID": "B1D04",  
"Name": "Trichy Cricket Board",  
"Address": "Trichy",  
"Phone": "9955886699",  
"City": "Trichy",  
"State": "Tamil Nadu",  
"Country": "India",  
"Lat": 11.5, "Long": 78.5}
```

```
}
```

```
ObjectID("651ceee36ebbfef7993adff907"),  
"BoardID": "B1D05",  
"Name": "Madhurai Cricket Board",  
"Address": "Madhurai",  
"Phone": "9944886699",  
"City": "Madhurai",  
"State": "Tamil Nadu",  
"Country": "India",  
"Lat": 11.5, "Long": 78.5}
```

```

{
  "id": object_id("651ceee36ebfe7993adf908"),
  "Board ID": "BID059",
  "Name": "Madurai Cricket Board",
  "Address": "Madurai",
  "Phone": 9573926424
}

{
  "id": object_id("651cf1726ebbfe7993adf909"),
  "Board ID": "BID014",
  "Name": "Chennai Cricket Board",
  "Address": "Chennai",
  "Phone": 9110887758
}

```

({"**State**: "Tamilnadu"})) no states found in db
 {{"**State**: "Karnataka"})) no states found in db
 {"**State**: "Kerala"})) no states found in db
 {"**State**: "Andhra Pradesh"})) no states found in db

VEL TECH	
EX NO.	100-02-8533
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	5
TOTAL (20)	15
SIGN WITH DATE (IN C. P. P.)	15

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