Task : 8

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, removing operation

Steps:

Step 1 : Install Mongo db using following link.

Step 2 : Install Mongosh using the below link.

Step 3 : To add the MongoDB shell binary's location to your PATH environment variable.

    3.1 : click the control Panel.

    3.2 : In the system and security category, click system

    3.3 : click Advanced system settings. The system properties modal displays.

    3.4 : click Environment variables

    3.5 : In the system variables selection, select path and click Edit. The Edit environment variable modal displays.

    3.6 : click New and add the filepath to your mongosh binary.

Step 4 : To conform that your PATH environment variable is correctly configured to find mongosh, open a command prompt and enter mongosh --help command. strov

Step 5 : open mongo shell 4.0 from
    C:\program files \mongo DB\ sever\bin\mongogod .exe

Step 6 : Type the CRUD (CREATE READ UPDATE DELETE) COMMANDS GIVEN IN TEXT FILE.

CRUD OPERATIONS

```
db.createCollection ("cricketBoard")
{ "ok": 1}
>db.cricketBoard.insertOne({BoardID: "BID001",
        Name: "Chennai CricketBoard",
        Address: "chennai", Phone: 9317276699})
}

    "acknowledged": true,
    "inserted Id": objectId ("651Cf1726ebbfe7993adf909")
}
db.mylab.find({find BoardID: "BID001"})
{ "_id": objectId ("651Cf1726ebbfe7993adf909"), BoardID:
"BID01", "Name": "Chennai CricketBoard", "Address": "chennai",
"Phone": 9988276699}

db.cricketBoard.insertMany ([{BoardID: "BID02", Name: "Tiruvallur
cricket Board", Address: "chennai", Phone 9927286699}, {BoardID:
"BID03", Name: "villupuram CricketBoard", Address: "villupuram",
Phone: 9448166997}]);
{ "acknowledged": true,
        "inserted Ids": [
                ObjectId ("651Cceeddff974321"),
                Objectid ("651Cceeddff974321"),
                ObjectId ("651Cceeddff974321"),
                ObjectId ("651Cceeddff974321").

                ]
}
db.cricketBoard.find()
{ "_id": objectId ("651Cceeddff974321"), "BoardID": "BID02",
"Name": "Tiruvallur CricketBoard", "Address": "chennai", "Phone": 9917286699}
{ "_id": objectId ("651Cceeddff974321"), "BoardID": "BID03",
"Name", "villupuram CricketBoard", "Address": Phone "villupuram", "Phone":
        9981776665}
```

```
{ "_id": Object Id ( "651cee36 ordog7h113"); "Board Id": "B5 004")

  "name" : "Madurai cricket Board", "Address": "Madurai",

  "phone": 9944866993}

{ "_id" : Object Id ( "651 cee 36 cd4ay5h113") "Board Id":B

  Board ID": "BID01", name : "chennai cricket Board", "Address":

  "chennai", "phone": 9981726699)

db.cricket Board.find() Pretty()
{
    "_id" : object Id("651cee36 ebbfe 7993ad f904"),

    "Board ID" : "BID02",

    "name" : "Tiruvallu Cricket Board",

    "Address" : "Chennai",

    "Phone" : 9997851669}
}
{
    "_id" : object Id ("651cee36 ebbfe 7993adf905"),

    "Board ID" : "BID03",

    "name" : "villupuram Cricket Board",

    "Address" : "villupuram",

    "phone" : 9966886699.
}
{
    "_id": object Id ( "65 1 cee 36 ebbfe"),

    "BoardID": "BID04",

    "Name" : "Madurai Cricket Board",

    "Address" : "Madurai",

    "phone" : 9944886699
}
```

```
"id": ObjectId ("65 CCe 36 ebbfe 7998 ed f905"),
"BoardId": "B3005",
"Name": "Madurai Cricket Board",
"Addres": "Madurai",
"Phone": 9944886699
}
{
"_id": ObjectId ("65 1Cf 1226 ebbfe7993ad f905"),
"BoardID": "BID01",
"Name": "Chennai Cricket Board",
"Addres": "Chennai",
"Phone": 9788776993
}

db.CricketBoard.deleteOne({BoardID: "BID03"})
{acknowledged: true, deletedCount: 1}
db.CricketBoard.find().pretty()

{
"_id": ObjectId ("651Cee036ebbfe758),
"BoardID": "BDD02",
"Name": Tiruvallur Cricket Board",
"Addres": "Chennai",
"Phone": 897788699
}
{
"_id": ObjectId ("651Cee036ebbfe793")
"Board ID": "BID04",
"Name": Trichy Cricket Board",
"Addres": Trichy",
"Phone": 9958866 99
}
```

VEL TECH CSE	
EX NO	8
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	5
TOTAL (20)	20
SIGN WITH DATE	8

Result: Thus CRUD using NPM design on MONgo DB designing document database and Performing CRUD operations like creating, inserting and querying, finding, removing operation are performed.