Task-10 Crud Operations In Document Databases

Aim

To perform mongoose using NPM design on Mongo DB designing document database and performing CRUD operations like creating, inserting, querying, finding and removing operations.

Steps:

1) Install Mongo db using following link
https://www.mongodb.com/try/download/community

2) Install Mongosh using the below link
https://www.mongodb.com/docs/mongodb-shell

3) To add the MongoDB shell binary's location to your PATH environment.
variable: Open the control panel
In the system and security category.
click system.

Click Advanced system setting. The system properties modal displays.

Click Environment variables.

In the system variables section, select path and click edit. The Edit environment variable modal display.

Click New and add the filepath to your mongosh binary.

4) Open mongo shell 4.0 from c:\ programfiles \ mongoDB \ 5 cuver\bin \ mongod. exe

5) Type the CRUD (Create Read update delete) commands given in Text file.

CRUD Operations

```
db create Collection (" mylab")
{ "OK",: 1}
> db. mylab . insertOne ({item: " cannas", qty:
100, tags : ["cotton"], size : { h: 28, w: 35.5,
vom :" cm"}})
{
"
    "acknowledged": true,
"insertedId": ObjectId ("627d13 acc 73990107
    4e6397c")
}

> db. mylab. find ({ item:" cannas"})
{" _id": ObjectId ("627d13 acc 73990107
    4e6397c"), "item": "cannas", "qty":
100, "tags" : ["cotton"], "size" : {"h": 28,
    "w": 35.5 , "vom": "cm"}}

> db. mylab. insertMany ([{ item: "journal";
    qty : 25, tags: ["blank", "red"], size : {h:14,
    w:21, vom:" cm"}}, { item:" mat", qty:85,
    tags : ["gray"], size : {h:27.9, w: 35.5, von
    :"cm"}}, {item: " mousepad", qty :25,
```

```
"acknowledged": true,
"insertedIds": [
        ObjectId("627d1598c73990c074
            e6397d"),
        ObjectId("627d1598c73990c074
            e6397e"),
        ObjectId("627d1598c73990c074
            e6397f")
    ]
}

> db.mylab.find({}, {item:1, qty:1})
{"_id": ObjectId("627d13acc73990c074c
        6397c"), "item": "canvas", "qty":
        100}
{"_id": ObjectId("627d1598c73990c074e
        6397d"), "item": "journal", "qty":25}
{"_id": ObjectId("627d1598c73900c074e63
        97e"), "item": "mat", "qty":85}
{"_id": ObjectId("627d1598c73990c074e6397
        f"), "item": "mousepad", "qty":25}
> db.mylab.find({}, {item:1, qty:1}).pretty()
{
"_id": ObjectId("627d13acc73990c074e6397c"
"item": "canvas",
"qty": 100
```

```
}
{
    "_id": ObjectId("627d1598c73990c074e6397
        d"),
    "item": "journal",
    "qty": 25
}
{ "_id": ObjectId("627d1598c73990c074
        e6397e"), "item": "mat", "qty":85}
{
    "_id": ObjectId("627d1598c73990c074
        e6397f"),
    "item": "mousepad",
    "qty": 25
}
> db.mylab.deleteOne({item:"journal"}
...
> db.mylab.find({}, {item:1, qty:1}).pretty()
{
    "_id": ObjectId("627d13acc73990c074e6397
        c"),
    "item": "canvas",
    "qty": 100
}
{
```

```json
{
"_id": ObjectId("627d1598c7399Dc074e6397d"),
"item": "journal",
"qty": 25
}
{ "_id": ObjectId("627d1598c7399Dc074e6397e"), "item": "mat", "qty": 85}
{
"_id": ObjectId("627d1598c7399Dc074e6397f"), "item": "mousepad", "qty": 25}
```

Result

The implementation of CRUD operations like creating, inserting, finding and removing operations using MongoDB is successfully executed