

Task - 10

CRUD operations in Document Database

1. To perform Mongoose using NPM design in MongoDB designing document database

steps

step 1. Install MongoDB

step 2. Install Mongosh

3. To add the MongoDB shell binary's

location to your path

control panel

system and security category, click system
advanced settings. The system model

lays

environmental variables

the system variables section, select path

click Edit

click New and add the file path

click OK to confirm your changes.

To confirm that your Path environment variable

is correctly configured to find mongosh.

open command prompt and enter mongosh

help command.

Step 4: open mongo shell from

c:\program files\mongodb\server\bin

- **Employee** (Employee_ID, Name, Department_ID, Job_Title, Hire_Date, Salary) ↗
- **Department** (Department_ID, Manager_ID) ↗
- **Manager** (Manager_ID, Name)

CRUD Operations:

```
db.createCollection("my lab")
("ok":1)
> db.myLab.insertOne({item: "canvas", qty: 100,
tags: ("cotton"), size: (h: 28, w: 35, uom: "cm")})
{
  "acknowledged": true,
  "insertedId": (
    ObjectId ("627d1598c73990c074e6397d"),
    ObjectId ("627d1598c73990c074e6397e"),
    ObjectId ("627d1598c73990c074e6397f")
  )
  "id": ObjectId ("627d13acc73990c074e6397c"),
  "item": "canvas", qty: 100
}
{
  "id": ObjectId ("627d1598c73990c074e6397d"),
  "item": "journal", qty: 25
}
{
  "id": ObjectId ("627d1598c73990c074e6397e"),
  "item": "mat", qty: 85
}
> db.myLab.find({item: "canvas", qty: 100}, {pretty: 1})
{
  "_id": ObjectId ("627d13acc73990c074e6397c"),
  "item": "canvas",
  "qty": 100
}
```

```
{  
  "_id": object ID("627d1598c73990c074e6397e"),  
  "item": "Journal",  
  "qty": 25  
}
```

```
{ "id": object ID("627d1598c73990c074e6397e"),  
  "item": "mat", "qty": 85 }
```

```
> db.myLab.find( {item: "canvas"} ).pretty().sort  
  ( {item: -1} )
```

```
{  
  "id": object id ("627d1390cc73990c074e6397e"),  
  "item": "canvas",  
  "qty": 100,  
  "tags": {  
    "cotton":  
    },  
  "size": {  
    "h": 28,  
    "w": 35,  
    "unit": "cm"  
  }  
}
```

}

```
> db.myLab.deleteOne( {item: "Journal"} )
```

- $\text{Employee_ID} \rightarrow \text{Name, Department, Job_Title, Manager_ID, Hire_Date, Salary}$ (The Employee's ID determines all other attributes).
- $\text{Department} \rightarrow \text{Manager_ID}$ (The department determines the manager's ID).
- $\text{Manager_ID} \rightarrow \text{Name}$ (The manager's ID determines the manager's name).

```
7db.my find ({} , {item: 1, qty: 13}).pretty()
```

```
{  
  "_id": objectID("627d13acc73990c74e397c")  
  "item": "canvas",  
  "qty": 100  
}
```

4. item

marked

Result: Thus, the implementation of CRUD operations is successfully executed

EX NO	TECH - CSE
PERFORMANCE (5)	10
RESULT (5)	5
VIVA VOCE (5)	5
REPORT (5)	5
TOTAL (20)	10
SIGN WITH DATE	11/10/2023

11/10/2023