Task No: 10
Date: 14/10/25

CRUD" operations in Document Databases..

Aim:- To perform mangoose using NPM design on mangoes designing document database and performing CRUD operations like creating, inserting, quering, finding and removing operations.

Steps;

Step 1: install mango db using following link.

http://www.mongodb.com/try/download/community.

Step 2; install mongosh using the below link.

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

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

Open the control Panel.

In the system and Security category, click system.

Click Advanced system settings. The System properties model displays.

Click Envionment variables.

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

Click ~~Environment~~ new and add the filippath to your mongosh binary

Click ok to conform your changes. on each other modal.

Click ok to conform your changes.

To confirm that your PATH. environment variable is correctly configured to find mongash, Open a command prompt and enter the mongosh -- help command.

If your PATH is configured correctly, a list of valid commands displays.

Step 4; open mango shell 4.0 from C:\ Program files/ mongoDB/ server\bin\mangod.exe.

Step 5; Type the CRUD (CREATE READ, UPDATE DELETE) Commands GIVEN IN TEXT FILE.

CRUD OPERATIONS:

db.createCollection("mylab")

{ok":1}

>db.mylab.insertone({item:"canvas",qty:100,tags:["cotton"],size:{h:28,w:35.5,uom:"cm"}})

{
"acknowledged":true,
"insertedId":objectId("627d13acc7390c074e6397c")
}

>db.mylab.find({item:"canvas"})

{"id:objectId("627d13acc7390c074e6397c"),"item":"canvas","qty":100,"tags":["cotton"]"size:"{"h":28,"w":35.5,"uom":"cm"}}

>

db.mylab.insertmany([{item:"journal",qty:25,tags:["blank","red"],size:{h:14,w:21,uom:"cm"}},{item:"mat",qty:85,tags:["gray"],size:{h:27.9,w:35.5,uom:"cm"}},{item:"mousepad",qty:25,tags:["gel","blue"],size:{h:19,w:22.85,uom:"cm"}}])

"acknowledged":true,
"insertedIds":[objectId("627d1598c739900074c6397d"),
objectId("627d1598c7390c074e6397e"),
objectId("627d1598c7390c074e6397f")
]
}

>db.mylab.find({},{item:1,qty:1})

{"id":objectId("627d13acc7390c074ed397c"),"item":"canvas","qty":100}
{"_id":objectId("627d1598c7390c074c6397d"),
"item":"journal","qty":25}
{"_id":objectId("627d1598c7390c074e6397c"),
"item":"mat","qty":85}
{"_id":objectid("627d1598c7390c074e6397f"),
"item":"mousepad","qty":25}

>db.mylab.find({},{item:1,qty:1}).pretty()

{
"_id":objectId("627eH39cc7390c074e6397c"),
"item":"canvas"

"qty" : 100

{"id" object Id ("627d13acc73990c074e6397d").

"item" : "journal",

"qty" : 25

}

{ "_id" : object Id ("627d1598c73990e07fe6397e"), "item" : "mat",

"qty" : 85

}

{ "_id" : objectId ("627d1598c7399Dc07fe6397e"), "item" : "mat :

"qty" : 85

{

"_id" : object Id ("627d1598c 73990c074e6397f"),

~~"qty" : 85~~

"item" : "mousepad",

"qty" : 25

}

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

{

"_id" : object Id ("627d13acc73990c 074e6397c"),

"item" : "canvas", "qty" : 100, "tags" : ["cotton"],

"size" : { "h" : 28, "w" : 35.5, "uom" : "cm" }

}

>db.mylab.deleteone({item: "journal"})

....

....

>db mylab.find ({}, {item:1, qty:{}}).pretty()

{

"_id" : object Id ("627d13acc73990, 07 4e6397c"),

"item" : "conval",

"qty" : 100.

}

{

"_id" : object Id ("627d1598c7 3990c074e6399d")

"item": "journal",

"qty": 25

{
}

"_id": objectId("627d159fc73990c074e63f7e"),

"item": "max", "qty": 85}

{
"_id": objectId("627d159fc73990c074ed397f"),

"item": "mousepad", "qty": 25}

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