

14/10/25 Task 10 CRUD operations in document database

Aim:- To Performs Manage using nrm design on Mango DB designing document database and performing crud

Steps:-

Step 1:- install mango db using following link
<https://www.mango.db.com/tray/download>

Step 2:- install mango sh using the below link
<https://www.mangodb.com/docs/mangodb.sh>

Step 3:- To add the mango DB shell binary location

Step 4:- open mango shell v'0 frame : | program file

Step 5:- TYPE the CRUD (CREATE READ UPDATE DELETE) commands Given in text file.

CRUD operation

1. create database

```
db.createCollection("products")
{"ok": 1}
```

2. Insert one products:

```
db.products.insertOne({name: "Realme 12 Pro",  
price: 30000, category: "electronic device", stock: 100, status: "off"}).
```

details: [brand: "Realme"; warranty: 'year 3)

output:-

```
{ "acknowledged": true;
  "insertedId": ObjectId("62a163a0")
}
```

3. Find one mobile product (read)

db.products.find([name: realme])

output:

```
{ "_id": ObjectId("62a163a0"),
  "name": "Realme",
  "price": "3000",
  "category": "Electronics",
  "stock": 25,
  "tags": ["oppo"]
}
```

4) insert multiple mobile products

db.mobileProduct.insertMany({ {
name: "smart-phone", price: 30,000 ;category =
'Electronics', stock = 50, tags: ["android",
"ios"], details {brand "realme" 3);

{name: "redmi", price: 25,000, category:
"Electronics" stock = 30, tags ("oppo")

output:

```
[ "acknowledge": true ]  
"insert Edited": [  
  object id ("6201b3ac")  
  object id ("6201b500c")  
]
```

3) Display selected field:

```
db.mobile.product.find ( { name = 1,  
  price = 1, stock = 13 }
```

output:-

```
{ "id": object id ("6201b3ace") name: "realme",  
  price: 25000, "stock": 25 }  
{ "id": object id ("6201b504c") name:  
  "Smart-Phone", price: 3000, "stock": 30 }  
{ "id": object ("6201b500c"), name: "Redmi",  
  "price": 25000, "stock": 30 }
```

5) Pretty Format

```
db.mobile.product.find ( { }, { name = 1, price = 1,  
  stock = 13 }, pretty ( )
```

output:

```
{ "id": object id ("6201b3acc"), name:  
  "realme", price: 3000, stock: 3 }
```

```
{ "id" : objectId ("62a1b5a9c"), "name" : "smartphone",  
  price : 25000, "stock" : 50 }
```

```
{ "id" : objectId ("62a1b5a9c"), "name" : "redmi",  
  "price" : 25000, "stock" : 30 }
```

delete one mobile product

```
db.mobileProduct.deleteOne  
({ name : "realme" })
```

output:-

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

Final display

```
db.mobileProduct.find({ } { name = 1, price = 1,  
  stock = 13 }) .mobileProduct
```

output:-

```
{ "id" : objectId ("62a1b3acc"),  
  "name" : "realme", "price" : 3000,  
  "stock" : 25 }
```

```
{ "id" : objectId ("62a1b3a9c"),  
  "name" : "realme", "price" : 2800, "stock" : 313 }
```

VEL TECH	
EX NO.	10
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	5
TOTAL (20)	15
SIGN WITH DATE	

Result:- Thus, implementation of CRUD operation (creating, inserting, finding and removing) has been implemented & executed successfully.