

TASK 10

CRUD OPERATIONS IN DOCUMENT DATABASE

Aim: To perform CRUD operations using NPM design on mongoDB designing document database and performing CRUD.

Step 1: Install mongoDB using following
<https://www.mongodb.com/> click download

Step 2: Install mongoShell using the below.

HTTP = <http://www.mongodb.com/tutorials/mongodb-shell>

Step 3: To add the mongoDB shell binary location

Step 4: Open mongo shell up from C:\Program files.

Step 5: Type the CRUD (Create, Read, Update, delete).

Commands given in the .tex file

~~CRUD operations~~

~~1. Create database.~~

db.createCollection('product')
{}'ok':1]

2. Insert one product

db.mobile_products.insertOne({
name: "Realme", price: 30000, category:
"electronic device", stock: 25, tags:
["OPPO"]});

details : { brand: "Realme", warranty: 1 year })

Output:

{ "acknowledged": true,
"insertedId": "629163ac1" };

}

3. finds one mobile product (read)

db.products.find({ name: "Realme" })

Output:

{ "id": "629163ac1",
"name": "Realme",
"price": 30000,
"category": "electronics",
"stock": 25,
"tags": ["OPPO"] }

u) Insert multiple mobile products:

db. mobileProduct insert many {

```
    name: "SmartPhone", price: 30000, category:  
    "electronics", stock: 50, tags: ["android",  
    "ios"], details {brand: "realme" 3},  
    {name: "redmi", price: 25000, category:  
    "electronics"}, stock: 30, tags: ["comics"] } }
```

Output:

{

"all knowledge". find()

"insert fed id";

object id ("6291b5aee")

object id ("62a1b500c")

}

s) ~~Display selected field.~~

db. mobileProduct find(), {name, price: 1, stock: 1}

Output:

{ "id": object id ("72a1b3acc"),

name: "Stealth", price: 25000 }

```
{ "id": ObjectId("62a1b3acc") ; "name",  
  "Smartphone", "price": 30000,  
  "Stock": 30}  


```
{ "id": ObjectId("62a1b500c") ; "name",
 "Redmi", "price": 25000
 "Stock": 30}


```
{ "id": ObjectId("62a1b580c") ; "name",  
  "Redmill", "price": 25000  
  "Stock": 30}
```


```


```

i) pretty format

db. mobile.Product.find({ \$name: "Redmill", "price": 1, "Stock": 15 }).pretty()

OUTPUT:

```
= {  
  "_id": ObjectId("62a1b3acc"),  
  "name": "Smartphone", "price": 30000,  
  "Stock": 30}  


```
{
 "_id": ObjectId("62a1b500c"), "name":
 "Smartphone", "price": 25000,
 "Stock": 30}
```


```

delete one mobile product.
db. mobile. products. delete one
{
name: "realme 3")

OUTPUT: final display
db. mobile. products find [{
name = , stock : 13. }]. mobile.products
price = , stock = 13.

OUTPUT:
= {
"id": ObjectId("62a1b3acc1"),
"name": "realme",
"price": 30000,
"stock": 13
}{
"id": ObjectId("62a1b399c1"),
"name": "realme",
"price":
28000, "stock": 30}

VEL TECH	
EX NO.	50
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	16
TOTAL (20)	20
SIGN WITH DATE	✓

Result:

Thus the implementation of CRUD
operations like creating, inserting, finding
and removing operation using mongoose
is exercised.