MongoDB CRUD operations

Open the command prompt ….

And type mongo…Press ENTER

Now the MongoDB should be added to your environment system variables

→ To see what databases or existed in our MongoDB,we use the following command

```
> show databases;
Amrutha  0.000GB
admin    0.000GB
config   0.000GB
local    0.000GB
```

→ To create a database,use the following command…

Use db_name;

```
 > use Amrutha;
switched to db Amrutha
> db
Amrutha
```

“Amrutha” is the data base name. Now the database is switched to “Amrutha” db.

→ Creating a Collection…

Command: db.createCollection(“Collection_name”);

```
> db.createCollection("mss");
{ "ok" : 1 }
```

In the above the collection is created with name “mss”

By using the below command,we can see that what collections are created.

```
> show collections;
```

Mss

→creating a document(i.e., inserting a document into a collection)

Command:db.Collection_name.insertOne({“key”:”value”})

```
> db.mss.insertOne({"name":"Ammu","rollno":"83"});
{
        "acknowledged" : true,
        "insertedId" : ObjectId("6472064e98c421973042e001")
}
```

Now the document inserted in the collection “mss”

→Inserting many documents into collection

Command:db.Collection_name.insertMany([{“key”:”value”}, {“key”:”value”}])

```
> db.mss.insertMany([{"name":"pinky","rollno":"34"},{"name":"ramu","rollno":"23"}]);
{
        "acknowledged" : true,
        "insertedIds" : [
                ObjectId("6472079a98c421973042e002"),
                ObjectId("6472079a98c421973042e003")
        ]
}
```

After pressing enter,for every inserted data should have objected.

→Reading the data(documents) from the collection.

Command: db.collection_name.find()

> db.mss.find();

{ "_id" : ObjectId("6472064e98c421973042e001"), "name" : "Ammu", "rollno" : "83" }

{ "_id" : ObjectId("6472079a98c421973042e002"), "name" : "pinky", "rollno" : "34" }

{ "_id" : ObjectId("6472079a98c421973042e003"), "name" : "ramu", "rollno" : "23" }

Now ,All the data is displayed from the collection

→Fetching particular document

> db.mss.find({ "_id" : ObjectId("6472064e98c421973042e001")});

{ "_id" : ObjectId("6472064e98c421973042e001"), "name" : "Ammu", "rollno" : "83" }

We can find the particular document by simply using the objected of that particular document

Also we can find the data by using some certain key:value as follows

> db.mss.find({"name":"Ammu"});

{ "_id" : ObjectId("6472064e98c421973042e001"), "name" : "Ammu", "rollno" : "83" }

→Updating the document

Command:db.collection_name.update({“key”:”old value”},{$set{“key”:”new_value”}})

> db.mss.update({"name":"Ammu"},{$set:{"name":"Amrutha"}});

WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })

In the above command,we updated the “name”:”Ammu” as “name”:”Amrutha

Now we can check whether it was updated or not by using find method as follows

> db.mss.find();

{ "_id" : ObjectId("6472064e98c421973042e001"), "name" : "Amrutha", "rollno" : "83" }

{ "_id" : ObjectId("6472079a98c421973042e002"), "name" : "pinky", "rollno" : "34" }

{ "_id" : ObjectId("6472079a98c421973042e003"), "name" : "ramu", "rollno" : "23" }

→Remove a Document

Command: db.collection_name({“key”:”value”});

> db.mss.remove({"name":"ramu"});

WriteResult({ "nRemoved" : 1 })

Now the document having the key value “name”:”ramu” has been deleted

We can check that by using the find method

> db.mss.find();

{ "_id" : ObjectId("6472064e98c421973042e001"), "name" : "Amrutha", "rollno" : "83" }

{ "_id" : ObjectId("6472079a98c421973042e002"), "name" : "pinky", "rollno" : "34" }