Author name: Aditi Bairagi

Roll no:153

PRN no: UCS22F2153

Batch: AS4

Assignment No:07

problem statement: Study of Open Source NOSQL Database : MongoDB (Installation, Basic CRUD operations, Execution)

Installation:

If mongoDB already install on terminal then is will show following information.

(base) student@student-Veriton-M200-H61:~\$ mongo

MongoDB shell version v3.6.8

connecting to: mongodb://127.0.0.1:27017

Implicit session: session { "id" : UUID("2d91bb1b-e620-40b2-92a6-2b89e2402da0") }

MongoDB server version: 3.6.8 Server has startup warnings:

2023-04-27T09:54:01.507+0530 I STORAGE [initandlisten]

2023-04-27T09:54:01.507+0530 I STORAGE [initandlisten] ** WARNING: Using the XFS

filesystem is strongly recommended with the WiredTiger storage engine

2023-04-27T09:54:01.507+0530 I STORAGE [initandlisten] ** See

http://dochub.mongodb.org/core/prodnotes-filesystem

2023-04-27T09:54:19.430+0530 I CONTROL [initandlisten]

2023-04-27T09:54:19.430+0530 I CONTROL [initandlisten] ** WARNING: Access control is not

enabled for the database.

2023-04-27T09:54:19.430+0530 I CONTROL [initandlisten] ** Read and write access to

data and configuration is unrestricted.

2023-04-27T09:54:19.430+0530 I CONTROL [initandlisten]

Operations:

1. To show databases.

Syntax: show dbs;
admin 0.000GB
company 0.000GB
config 0.000GB
dbRucha 0.000GB
inventory 0.000GB
local 0.000GB
nisha 0.000GB
pranav 0.000GB
resturant 0.000GB

2.creating database in mongoDB.

Syntax: use roll153; switched to db roll153

```
3. show collections.
```

Syntax:show collections;

```
emp
4.creating collection.
Syntax:
db.emp.insert({eno:223,ename:"aaa",desgn:"manager"},{ id:2,eno:333,skillset:["c","c+
+","java"]});
WriteResult({ "nInserted" : 1 })
5.Show collections.
Syntax:
db.emp.find();
{ "_id" : ObjectId("644a03ef7f2a9911c38d9768"), "eno" : 111, "ename" : "abc", "esal" :
234.45 }
Show collection in well organized format
db.emp.find().pretty();
      " id": ObjectId("644a03ef7f2a9911c38d9768"),
      "eno": 111.
      "ename": "abc",
      "esal": 234.45
6.Inserting records into collection emp.
db.emp.insert({eno:222,ename:"cde",desgn:"manager",esal:223.67});
WriteResult({ "nInserted" : 1 })
> db.emp.insert({eno:222,ename:"cde",desgn:"manager",esal:223.67});
WriteResult({ "nInserted" : 1 })
> db.emp.find();
{ "_id" : ObjectId("644a03ef7f2a9911c38d9768"), "eno" : 111, "ename" : "abc", "esal" :
234.45 }
{ "_id" : ObjectId("644a04927f2a9911c38d9769"), "eno" : 222, "ename" : "cde", "desgn" :
"manager", "esal" : 223.67 }
{ " id" : ObjectId("644a049f7f2a9911c38d976a"), "eno" : 222, "ename" : "cde", "desgn" :
"manager", "esal" : 223.67 }
> db.emp.find().pretty();
{
      "_id": ObjectId("644a03ef7f2a9911c38d9768"),
      "eno": 111.
      "ename": "abc",
      "esal": 234.45
}
{
      " id": ObjectId("644a04927f2a9911c38d9769"),
      "eno": 222,
      "ename": "cde",
      "desgn": "manager",
      "esal": 223.67
```

```
}
{
      " id": ObjectId("644a049f7f2a9911c38d976a"),
      "eno": 222,
      "ename": "cde",
      "desgn": "manager",
      "esal": 223.67
}
db.emp.insert({eno:223,ename:"aaa",desgn:"manager"},{_id:2,eno:333,skillset:["c","c+
+","java"]});
WriteResult({ "nInserted" : 1 })
7.show records including ename, esal.
> db.emp.find({eno:111},{ename:1,esal:1});
{ "_id" : ObjectId("644a03ef7f2a9911c38d9768"), "ename" : "abc", "esal" : 234.45 }
db.emp.find().pretty();
      "_id": ObjectId("644a03ef7f2a9911c38d9768"),
      "eno": 111,
      "ename": "abc",
      "esal": 234.45
}
8.Show records excluding designation
{ "_id" : ObjectId("644a06117f2a9911c38d976b"), "eno" : 223, "ename" : "aaa", "desgn" :
"manager" }
> db.emp.find({eno:223},{desgn:0}).pretty();
      " id": ObjectId("644a06117f2a9911c38d976b"),
      "eno": 223,
      "ename": "aaa"
}
9. Remove records
_db.emp.remove({eno:223});
WriteResult({ "nRemoved" : 1 })
```