Mongodb Assignment no.01

Q1. Create database employee.

Create database Employee

Q2. Create Collection emp1 using createCollection method.

db.createCollection(“emp1”)

{ "ok" : 1 }

Q3. Insert 4 to 5 documents in emp1 collection(eno,ename,address,salary)

db.emp1.insertMany([{eno:100,ename:"Dipak",address:"Latur",Sal:60000},{eno:101,ename:"Jordan_sir",address:"Kolhapur",Sal:100000},{eno:102,ename:"Dipali",address:"pune",Sal:50000},{eno:103,ename:"Amit",address:"pune",Sal:80000},{eno:104,ename:"Rucha",address:"mumbai",Sal:90000}])

Q4. Display all documents.

db.emp1.find().pretty()


```
{
    "_id" : ObjectId("6531fe7104169eee3b689220"),
    "eno" : 100,
    "ename" : "Dipak",
    "address" : "Latur",
    "Sal" : 60000
}
{
    "_id" : ObjectId("6531fe7104169eee3b689221"),
    "eno" : 101,
    "ename" : "Jordan_sir",
    "address" : "Kolhapur",
    "Sal" : 100000
}
{
    "_id" : ObjectId("6531fe7104169eee3b689222"),
    "eno" : 102,
```

"ename" : "Dipali",

"address" : "pune",

"Sal" : 50000

}

{

"_id" : ObjectId("6531fe7104169eee3b689223"),

"eno" : 103,

"ename" : "Amit",

"address" : "pune",

"Sal" : 80000

}

{

"_id" : ObjectId("6531fe7104169eee3b689224"),

"eno" : 104,

"ename" : "Rucha",

"address" : "mumbai",

"Sal" : 90000

}

Q5. Insert document by creating own object id.

db.emp1.save({_id:1,Name:"Vivek"})

OP:-

{ "_id" : 1, "Name" : "Vivek" }

Q6. Display all employess having salary greater than 5000.

db.emp1.find({Sal:{$gt:5000}})

{ "_id" : ObjectId("6531fe7104169eee3b689220"), "eno" : 100, "ename" : "Dipak", "address" : "Latur", "Sal" : 60000 }

{ "_id" : ObjectId("6531fe7104169eee3b689221"), "eno" : 101, "ename" : "Jordan_sir", "address" : "Kolhapur", "Sal" : 100000 }

{ "_id" : ObjectId("6531fe7104169eee3b689222"), "eno" : 102, "ename" : "Dipali", "address" : "pune", "Sal" : 50000 }

{ "_id" : ObjectId("6531fe7104169eee3b689223"), "eno" : 103, "ename" : "Amit", "address" : "pune", "Sal" : 80000 }

{ "_id" : ObjectId("6531fe7104169eee3b689224"), "eno" : 104, "ename" : "Rucha", "address" : "mumbai", "Sal" : 90000 }

Q7. Display all employess having salary less than 15000

db.emp1.find({Sal:{$lt:5000}})

Q8. Display all employess having salary greater than 10000 and less than 20000.

db.emp1.find({Sal:{$gt:10000,$lt:20000}})

Q.9 Update salary of all employee with 10%

db.emp1.updateMany({},{$mul:{Sal:1.10}})

{ "acknowledged" : true, "matchedCount" : 6, "modifiedCount" : 6 }

Q.10 Delete employee having salary less than 5000.

db.emp1.deleteMany({Sal:{$lt:5000}})

{ "acknowledged" : true, "deletedCount" : 1 }

Q.11 Rename collection emp1 with employee1.

db.emp1.renameCollection("employee1")

{ "ok" : 1 }

Q.12 Display employee whose name start with n.

db.employee1.find({name:{$regex:/^n/i}})

Q.13 Sort name in ascending order.

db.employee1.find().sort({ ename: 1 })

{ "_id" : ObjectId("6534f89b6a18c59e8493dec7"), "eno" : 103, "ename" : "Amit", "address" : "pune", "Sal" : 88000 }

{ "_id" : ObjectId("6534f89b6a18c59e8493dec4"), "eno" : 100, "ename" : "Dipak", "address" : "Latur", "Sal" : 66000 }

{ "_id" : ObjectId("6534f89b6a18c59e8493dec6"), "eno" : 102, "ename" : "Dipali", "address" : "pune", "Sal" : 55000.00000000001 }

{ "_id" : ObjectId("6534f89b6a18c59e8493dec5"), "eno" : 101, "ename" : "Jordan_sir", "address" : "Kolhapur", "Sal" : 110000.00000000001 }

{ "_id" : ObjectId("6534f89b6a18c59e8493dec8"), "eno" : 104, "ename" : "Rucha", "address" : "mumbai", "Sal" : 99000.00000000001 }

Q14. Create a new database with name Employee1.

use Employee1

switched to db Employee1

Q15. Drop employee1 database.

use employee1

switched to db employee1

> db.dropDatabase()

{ "ok" : 1 }

Q.16 Create collection emp1 using insert method.

use emp1

switched to db emp1

db.emp1.insertMany([{name:"Dipak",salary:60000,dept:"Computer"},{name:"Dipali",salary:70000,dept:"IT"},{name:"Vivek",salary:65000,dept:"AIDS"}])

{

"acknowledged" : true,

"insertedIds" : [

ObjectId("6534fe086a18c59e8493dec9"),

ObjectId("6534fe086a18c59e8493deca"),

ObjectId("6534fe086a18c59e8493decb")

]

}

Q.17 Drop collection emp1.

db.emp1.drop()

true