1) help

2) -use os42

-show dbs

3) -use iti

-db.students.insert({name:"Abdorrahman", age:23})

4) -show dbs

iti database is shown in the list after add collection

5) -var studentsData = [{name: "Ali", age:22},{name:"Hassan", age:24}, {name:"wael", age:26}, {name:"Omar", age:22},{name: "Ramy", age:23},{name:"bassem", age:24}, {name:"mahammad", age:35}, {name:"saif", age:22},{name:"Aslam", age:28}, {name:"Safi", age:24}]

-db.students.insertMany(studentsData)

db.students.find()

{ "\_id" : ObjectId("6239bf63824794fc3f7f5f63"), "name" : "Abdorrahman", "age" : 23 }

{ "\_id" : ObjectId("6239c204824794fc3f7f5f64"), "name" : "Ali", "age" : 22 }

{ "\_id" : ObjectId("6239c204824794fc3f7f5f65"), "name" : "Hassan", "age" : 24 }

{ "\_id" : ObjectId("6239c204824794fc3f7f5f66"), "name" : "wael", "age" : 26 }

{ "\_id" : ObjectId("6239c204824794fc3f7f5f67"), "name" : "Omar", "age" : 22 }

{ "\_id" : ObjectId("6239c20b824794fc3f7f5f68"), "name" : "Ramy", "age" : 23 }

{ "\_id" : ObjectId("6239c20b824794fc3f7f5f69"), "name" : "bassem", "age" : 24 }

{ "\_id" : ObjectId("6239c20b824794fc3f7f5f6a"), "name" : "mahammad", "age" : 35 }

{ "\_id" : ObjectId("6239c20b824794fc3f7f5f6b"), "name" : "saif", "age" : 22 }

{ "\_id" : ObjectId("6239c20b824794fc3f7f5f6c"), "name" : "Aslam", "age" : 28 }

{ "\_id" : ObjectId("6239c20b824794fc3f7f5f6d"), "name" : "Safi", "age" : 24 }

6) db.students.find({name:"Omar"})

{ "\_id" : ObjectId("6239c204824794fc3f7f5f67"), "name" : "Omar", "age" : 22 }

7) b.students.find({age:24})

{ "\_id" : ObjectId("6239c204824794fc3f7f5f65"), "name" : "Hassan", "age" : 24 }

{ "\_id" : ObjectId("6239c20b824794fc3f7f5f69"), "name" : "bassem", "age" : 24 }

{ "\_id" : ObjectId("6239c20b824794fc3f7f5f6d"), "name" : "Safi", "age" : 24 }

8) db.students.find({age:{$gt: 23}})

{ "\_id" : ObjectId("6239c204824794fc3f7f5f65"), "name" : "Hassan", "age" : 24 }

{ "\_id" : ObjectId("6239c204824794fc3f7f5f66"), "name" : "wael", "age" : 26 }

{ "\_id" : ObjectId("6239c20b824794fc3f7f5f69"), "name" : "bassem", "age" : 24 }

{ "\_id" : ObjectId("6239c20b824794fc3f7f5f6a"), "name" : "mahammad", "age" : 35 }

{ "\_id" : ObjectId("6239c20b824794fc3f7f5f6c"), "name" : "Aslam", "age" : 28 }

{ "\_id" : ObjectId("6239c20b824794fc3f7f5f6d"), "name" : "Safi", "age" : 24 }

9) db.students.deleteOne({name:"Aslam"})

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

10) db.students.find().pretty()

11) db.students.count()

10

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part2

after use ems and insert documents in faculty collection

1) db.faculty.find().pretty()

2) db.faculty.count()

11

3) db.faculty.find({"qualification":"Ph.D"}).pretty()

4) db.faculty.find({"exp":{$in:[8,12]}}).pretty()

5) db.faculty.find({$or:[{"subjects":"NETWORKING"}, {"subjects":"MATHS"}]})

6) db.faculty.find({$and:[{"subjects":"MATHS"},{"age":{$gt:30}},{"qualification":"Ph.D"}]}).pretty()

{

"\_id" : ObjectId("6239cd1c5b6300a5c0f702b7"),

"name" : "Latha",

"age" : 40,

"gender" : "F",

"exp" : 13,

"subjects" : [

"MATHS"

],

"type" : "Full Time",

"qualification" : "Ph.D"

}

7) db.faculty.find({$or:[{"type":"Part Time"},{"subjects":"JAVA"}]}).pretty()

8) db.faculty.insertOne({ "name":"Suresh Babu", "age":55, "gender":"M", "exp":25, subjects:["MATHS","DE"], "type":"Full Time", "qualification":"Ph.D"})

9) db.faculty.updateMany({},{$inc:{"exp":1, "age":1}})

10) db.faculty.updateOne({"name":"Sivani"},{$set:{"qualification":"Ph.D", "type":"Full Time"}})

11) db.faculty.updateMany({"subjects":"MATHS"},{$set:{"subjects":"PSK"}})

12) db.faculty.deleteMany({"age":{$gt:55}})

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

13) db.faculty.find({},{"name":1,"qualification":1, \_id:0}).pretty()

14) db.faculty.find({},{"name":1,"qualification":1,"exp":1, \_id:0}).sort({"exp":1}).pretty()

15) db.faculty.find().sort({"age":-1}).limit(5).pretty()