C:\Users\josli>cd C:\Program Files\MongoDB\Server\5.0\bin

C:\Program Files\MongoDB\Server\5.0\bin>mongo

> show databases

College 0.000GB

EMP 0.000GB

admin 0.000GB

config 0.000GB

demo 0.000GB

local 0.000GB

test 0.000GB

> use EMP

switched to db EMP

> db.createCollection("EMPL");

**1.Insert Records Into EMPL Collection**

>db.EMPL.insertMany([{no:1,name:"ST",salary:2000,role:"OB"},{no:2,name:"MSD",salary:1500,role:"WK"}])

{

"acknowledged" : true,

"insertedIds" : [

ObjectId("61d72245c77ec4c9cb5327c0"),

ObjectId("61d72245c77ec4c9cb5327c1")

]

}

> db.EMPL.insertMany([{no:3,name:"YS",salary:1000,role:"ALR"},{no:4,name:"RD",salary:1000,role:"MOB"},{no:5,name:"RS",salary:500,role:"OB"},{no:6,name:"BK",salary:500,role:"MOB"},{no:7,name:"VK",salary:300,role:"BW"},{no:8,name:"JB",salary:400,role:"BW"},{no:9,name:"HP",salary:400,role:"ALR"},{no:10,name:"VS",salary:300,role:"OB"}])

{

"acknowledged" : true,

"insertedIds" : [

ObjectId("61d725adc77ec4c9cb5327c2"),

ObjectId("61d725adc77ec4c9cb5327c3"),

ObjectId("61d725adc77ec4c9cb5327c4"),

ObjectId("61d725adc77ec4c9cb5327c5"),

ObjectId("61d725adc77ec4c9cb5327c6"),

ObjectId("61d725adc77ec4c9cb5327c7"),

ObjectId("61d725adc77ec4c9cb5327c8"),

ObjectId("61d725adc77ec4c9cb5327c9")

]

}

**2.Display Data in Proper Format**

> db.EMPL.find().pretty()

{

"\_id" : ObjectId("61d72245c77ec4c9cb5327c0"),

"no" : 1,

"name" : "ST",

"salary" : 2000,

"role" : "OB"

}

{

"\_id" : ObjectId("61d72245c77ec4c9cb5327c1"),

"no" : 2,

"name" : "MSD",

"salary" : 1500,

"role" : "WK"

}

{

"\_id" : ObjectId("61d725adc77ec4c9cb5327c2"),

"no" : 3,

"name" : "YS",

"salary" : 1000,

"role" : "ALR"

}

{

"\_id" : ObjectId("61d725adc77ec4c9cb5327c3"),

"no" : 4,

"name" : "RD",

"salary" : 1000,

"role" : "MOB"

}

{

"\_id" : ObjectId("61d725adc77ec4c9cb5327c4"),

"no" : 5,

"name" : "RS",

"salary" : 500,

"role" : "OB"

}

{

"\_id" : ObjectId("61d725adc77ec4c9cb5327c5"),

"no" : 6,

"name" : "BK",

"salary" : 500,

"role" : "MOB"

}

{

"\_id" : ObjectId("61d725adc77ec4c9cb5327c6"),

"no" : 7,

"name" : "VK",

"salary" : 300,

"role" : "BW"

}

{

"\_id" : ObjectId("61d725adc77ec4c9cb5327c7"),

"no" : 8,

"name" : "JB",

"salary" : 400,

"role" : "BW"

}

{

"\_id" : ObjectId("61d725adc77ec4c9cb5327c8"),

"no" : 9,

"name" : "HP",

"salary" : 400,

"role" : "ALR"

}

{

"\_id" : ObjectId("61d725adc77ec4c9cb5327c9"),

"no" : 10,

"name" : "VS",

"salary" : 300,

"role" : "OB"

}

**3.Update Salary Of Employee where Name is "ST" by +8000**

> db.EMPL.update({name:"ST"},{$inc:{salary:8000}})

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

**4.Update Salary Of All Employee by giving an increment of +4000 each**

> db.EMPL.update({},{$inc:{salary:4000}},{multi:true})

WriteResult({ "nMatched" : 10, "nUpserted" : 0, "nModified" : 10 })

**5.update role of "MSD" as "C and WK"**

> db.EMPL.update({name:"MSD"},{$set:{role:"C and WK"}})

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

**6.Add a New Field remark to document with name "RS" set Remark as WC**

> db.EMPL.update({name:"RS"},{$set:{remark:"WC"}})

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

**7.Add a New Field As Number 11,name AK,Salary 10000,role coch without using insert statement. But for Doing So You should have a Record Added woth number 11.**

> db.EMPL.update({no:11},{$set:{no:11,name:"AK",salary:10000,role:"coch"}},{upsert:true})

WriteResult({

"nMatched" : 0,

"nUpserted" : 1,

"nModified" : 0,

"\_id" : ObjectId("61d729d82fa0179b8000ae22")

})

**8.remove added New Field**

> db.EMPL.update({name:"RD"},{$unset:{remark:"WC"}})

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

**9.Update the Field "RD" by multiplying with salary by 2**

> db.EMPL.update({name:"RD"},{$mul:{salary:2}})

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

**10.To Find Document From the empl collection where name containing Capital S**

> db.EMPL.find({name:/S/i})

{ "\_id" : ObjectId("61d72245c77ec4c9cb5327c0"), "no" : 1, "name" : "ST", "salary" : 14000, "role" : "OB" }

{ "\_id" : ObjectId("61d72245c77ec4c9cb5327c1"), "no" : 2, "name" : "MSD", "salary" : 5500, "role" : "C and WK" }

{ "\_id" : ObjectId("61d725adc77ec4c9cb5327c2"), "no" : 3, "name" : "YS", "salary" : 5000, "role" : "ALR" }

{ "\_id" : ObjectId("61d725adc77ec4c9cb5327c4"), "no" : 5, "name" : "RS", "salary" : 4500, "role" : "OB", "remark" : "WC" }

{ "\_id" : ObjectId("61d725adc77ec4c9cb5327c9"), "no" : 10, "name" : "VS", "salary" : 4300, "role" : "OB" }

**11.To Find Document From the empl collection where name begins with S**

> db.EMPL.find({name:/^S/})

{ "\_id" : ObjectId("61d72245c77ec4c9cb5327c0"), "no" : 1, "name" : "ST", "salary" : 14000, "role" : "OB" }

**12.To Find Document From the empl collection where name begins with R**

> db.EMPL.find({name:/^R/})

{ "\_id" : ObjectId("61d725adc77ec4c9cb5327c3"), "no" : 4, "name" : "RD", "salary" : 10000, "role" : "MOB" }

{ "\_id" : ObjectId("61d725adc77ec4c9cb5327c4"), "no" : 5, "name" : "RS", "salary" : 4500, "role" : "OB", "remark" : "WC" }

**12.To Find Document From the empl collection where name ends with K**

> db.EMPL.find({name:/K$/})

{ "\_id" : ObjectId("61d725adc77ec4c9cb5327c5"), "no" : 6, "name" : "BK", "salary" : 4500, "role" : "MOB" }

{ "\_id" : ObjectId("61d725adc77ec4c9cb5327c6"), "no" : 7, "name" : "VK", "salary" : 4300, "role" : "BW" }

{ "\_id" : ObjectId("61d729d82fa0179b8000ae22"), "no" : 11, "name" : "AK", "role" : "coch", "salary" : 10000 }

**13.To Find Document From the empl collection where name ends with D**

db.EMPL.find({name:/D$/})

{ "\_id" : ObjectId("61d72245c77ec4c9cb5327c1"), "no" : 2, "name" : "MSD", "salary" : 5500, "role" : "C and WK" }

{ "\_id" : ObjectId("61d725adc77ec4c9cb5327c3"), "no" : 4, "name" : "RD", "salary" : 10000, "role" : "MOB" }

**14.To Find Document From the empl collection where name has S in any position**

> db.EMPL.find({name:/S/})

{ "\_id" : ObjectId("61d72245c77ec4c9cb5327c0"), "no" : 1, "name" : "ST", "salary" : 14000, "role" : "OB" }

{ "\_id" : ObjectId("61d72245c77ec4c9cb5327c1"), "no" : 2, "name" : "MSD", "salary" : 5500, "role" : "C and WK" }

{ "\_id" : ObjectId("61d725adc77ec4c9cb5327c2"), "no" : 3, "name" : "YS", "salary" : 5000, "role" : "ALR" }

{ "\_id" : ObjectId("61d725adc77ec4c9cb5327c4"), "no" : 5, "name" : "RS", "salary" : 4500, "role" : "OB", "remark" : "WC" }

{ "\_id" : ObjectId("61d725adc77ec4c9cb5327c9"), "no" : 10, "name" : "VS", "salary" : 4300, "role" : "OB" }

**15.To Find Document From the empl collection where name begins with S**

> db.EMPL.find({name:{$regex:"^S"}})

{ "\_id" : ObjectId("61d72245c77ec4c9cb5327c0"), "no" : 1, "name" : "ST", "salary" : 14000, "role" : "OB" }

**16.To Find Document From the empl collection where name begins with S**

> db.EMPL.find({name:{$regex:"S",$options:"i"}})

{ "\_id" : ObjectId("61d72245c77ec4c9cb5327c0"), "no" : 1, "name" : "ST", "salary" : 14000, "role" : "OB" }

{ "\_id" : ObjectId("61d72245c77ec4c9cb5327c1"), "no" : 2, "name" : "MSD", "salary" : 5500, "role" : "C and WK" }

{ "\_id" : ObjectId("61d725adc77ec4c9cb5327c2"), "no" : 3, "name" : "YS", "salary" : 5000, "role" : "ALR" }

{ "\_id" : ObjectId("61d725adc77ec4c9cb5327c4"), "no" : 5, "name" : "RS", "salary" : 4500, "role" : "OB", "remark" : "WC" }

{ "\_id" : ObjectId("61d725adc77ec4c9cb5327c9"), "no" : 10, "name" : "VS", "salary" : 4300, "role" : "OB" }

**17.Display Documents where in empl collection Field have OB,MOB**

> db.EMPL.find({role:{$in:["OB","MOB"]}})

{ "\_id" : ObjectId("61d72245c77ec4c9cb5327c0"), "no" : 1, "name" : "ST", "salary" : 14000, "role" : "OB" }

{ "\_id" : ObjectId("61d725adc77ec4c9cb5327c3"), "no" : 4, "name" : "RD", "salary" : 10000, "role" : "MOB" }

{ "\_id" : ObjectId("61d725adc77ec4c9cb5327c4"), "no" : 5, "name" : "RS", "salary" : 4500, "role" : "OB", "remark" : "WC" }

{ "\_id" : ObjectId("61d725adc77ec4c9cb5327c5"), "no" : 6, "name" : "BK", "salary" : 4500, "role" : "MOB" }

{ "\_id" : ObjectId("61d725adc77ec4c9cb5327c9"), "no" : 10, "name" : "VS", "salary" : 4300, "role" : "OB" }

**18.Display Documents where in empl collection Field not have OB,MOB**

> db.EMPL.find({role:{$nin:["OB","MOB"]}})

{ "\_id" : ObjectId("61d72245c77ec4c9cb5327c1"), "no" : 2, "name" : "MSD", "salary" : 5500, "role" : "C and WK" }

{ "\_id" : ObjectId("61d725adc77ec4c9cb5327c2"), "no" : 3, "name" : "YS", "salary" : 5000, "role" : "ALR" }

{ "\_id" : ObjectId("61d725adc77ec4c9cb5327c6"), "no" : 7, "name" : "VK", "salary" : 4300, "role" : "BW" }

{ "\_id" : ObjectId("61d725adc77ec4c9cb5327c7"), "no" : 8, "name" : "JB", "salary" : 4400, "role" : "BW" }

{ "\_id" : ObjectId("61d725adc77ec4c9cb5327c8"), "no" : 9, "name" : "HP", "salary" : 4400, "role" : "ALR" }

{ "\_id" : ObjectId("61d729d82fa0179b8000ae22"), "no" : 11, "name" : "AK", "role" : "coch", "salary" : 10000 }