C:\Users\student.MCALAB>cd C:\Program Files\MongoDB\Server\5.0\bin

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

**> use text**

switched to db text

**db.Employee.find();**

{ "\_id" : ObjectId("6273992297a5ed18c75a9de4"), "Empid" : 1, "Name" : "Alona", "Job" : "Teacher" }

{ "\_id" : ObjectId("627399f097a5ed18c75a9de5"), "Empid" : 2, "Name" : "Timin", "Job" : "Clerk", "Age" : 27 }

{ "\_id" : ObjectId("62739a2e97a5ed18c75a9de6"), "Empid" : 3, "Name" : "Teres", "Job" : "Engineer", "Salary" : 25000 }

{ "\_id" : ObjectId("62739a7097a5ed18c75a9de7"), "Empid" : 4, "Name" : "Kichu", "Job" : "Peon", "Age" : 29 }

{ "\_id" : ObjectId("62739a9797a5ed18c75a9de8"), "Empid" : 5, "Name" : "Sera", "Job" : "Analyst" }

> db.Employee.find({"Name":"Alona"});

{ "\_id" : ObjectId("6273992297a5ed18c75a9de4"), "Empid" : 1, "Name" : "Alona", "Job" : "Teacher" }

> **db.Employee.find().pretty();**

{

"\_id" : ObjectId("6273992297a5ed18c75a9de4"),

"Empid" : 1,

"Name" : "Alona",

"Job" : "Teacher"

}

{

"\_id" : ObjectId("627399f097a5ed18c75a9de5"),

"Empid" : 2,

"Name" : "Timin",

"Job" : "Clerk",

"Age" : 27

}

{

"\_id" : ObjectId("62739a2e97a5ed18c75a9de6"),

"Empid" : 3,

"Name" : "Teres",

"Job" : "Engineer",

"Salary" : 25000

}

{

"\_id" : ObjectId("62739a7097a5ed18c75a9de7"),

"Empid" : 4,

"Name" : "Kichu",

"Job" : "Peon",

"Age" : 29

}

{

"\_id" : ObjectId("62739a9797a5ed18c75a9de8"),

"Empid" : 5,

"Name" : "Sera",

"Job" : "Analyst"

}

**> db.Employee.find({"Empid":2}).pretty();**

{

"\_id" : ObjectId("627399f097a5ed18c75a9de5"),

"Empid" : 2,

"Name" : "Timin",

"Job" : "Clerk",

"Age" : 27

}

> **db.Employee.update({"Job":"Analyst"},{$set:{"Job":"Architect"}})**

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

> **db.Employee.find().pretty();**

{

"\_id" : ObjectId("6273992297a5ed18c75a9de4"),

"Empid" : 1,

"Name" : "Alona",

"Job" : "Teacher"

}

{

"\_id" : ObjectId("627399f097a5ed18c75a9de5"),

"Empid" : 2,

"Name" : "Timin",

"Job" : "Clerk",

"Age" : 27

}

{

"\_id" : ObjectId("62739a2e97a5ed18c75a9de6"),

"Empid" : 3,

"Name" : "Teres",

"Job" : "Engineer",

"Salary" : 25000

}

{

"\_id" : ObjectId("62739a7097a5ed18c75a9de7"),

"Empid" : 4,

"Name" : "Kichu",

"Job" : "Peon",

"Age" : 29

}

{

"\_id" : ObjectId("62739a9797a5ed18c75a9de8"),

"Empid" : 5,

"Name" : "Sera",

"Job" : "Architect"

}

> **db.Employee.remove({"Age":29})**

WriteResult({ "nRemoved" : 1 })

> **db.Employee.find().pretty();**

{

"\_id" : ObjectId("6273992297a5ed18c75a9de4"),

"Empid" : 1,

"Name" : "Alona",

"Job" : "Teacher"

}

{

"\_id" : ObjectId("627399f097a5ed18c75a9de5"),

"Empid" : 2,

"Name" : "Timin",

"Job" : "Clerk",

"Age" : 27

}

{

"\_id" : ObjectId("62739a2e97a5ed18c75a9de6"),

"Empid" : 3,

"Name" : "Teres",

"Job" : "Engineer",

"Salary" : 25000

}

{

"\_id" : ObjectId("62739a9797a5ed18c75a9de8"),

"Empid" : 5,

"Name" : "Sera",

"Job" : "Architect"

}

> **use demo**

switched to db demo

> **db.createCollection("Student");**

{ "ok" : 1 }

> **db.Student.insertMany([{"Rollno":1,"Name":"Piyush","Class":"TE Comp"},{"Rollno":2,"Name":"Abhi","Class":"TE Comp"},{"Rollno":3,"Name":"Ashley","Age":25},{"Rollno":4,"Name":"Hitesh","Age":23,"Class":"TE Comp"}])**

{

"acknowledged" : true,

"insertedIds" : [

ObjectId("62749f42c9a79b75b3c952cc"),

ObjectId("62749f42c9a79b75b3c952cd"),

ObjectId("62749f42c9a79b75b3c952ce"),

ObjectId("62749f42c9a79b75b3c952cf")

]

}

> **db.Student.find().pretty();**

{

"\_id" : ObjectId("62749f42c9a79b75b3c952cc"),

"Rollno" : 1,

"Name" : "Piyush",

"Class" : "TE Comp"

}

{

"\_id" : ObjectId("62749f42c9a79b75b3c952cd"),

"Rollno" : 2,

"Name" : "Abhi",

"Class" : "TE Comp"

}

{

"\_id" : ObjectId("62749f42c9a79b75b3c952ce"),

"Rollno" : 3,

"Name" : "Ashley",

"Age" : 25

}

{

"\_id" : ObjectId("62749f42c9a79b75b3c952cf"),

"Rollno" : 4,

"Name" : "Hitesh",

"Age" : 23,

"Class" : "TE Comp"

}

> **db.Student.find({"Class":"TE Comp"}).pretty();**

{

"\_id" : ObjectId("62749f42c9a79b75b3c952cc"),

"Rollno" : 1,

"Name" : "Piyush",

"Class" : "TE Comp"

}

{

"\_id" : ObjectId("62749f42c9a79b75b3c952cd"),

"Rollno" : 2,

"Name" : "Abhi",

"Class" : "TE Comp"

}

{

"\_id" : ObjectId("62749f42c9a79b75b3c952cf"),

"Rollno" : 4,

"Name" : "Hitesh",

"Age" : 23,

"Class" : "TE Comp"

}

> **db.Student.update({"Name":"Piyush"},{$set:{"Name":"Jiby"}})**

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

> **db.Student.find({"Name":"Jiby"}).pretty();**

{

"\_id" : ObjectId("62749f42c9a79b75b3c952cc"),

"Rollno" : 1,

"Name" : "Jiby",

"Class" : "TE Comp"

}

> **db.Student.update({"Name":"Piyush"},{$set:{"Name":"Jiby"}})**

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

> **db.Student.find({"Name":"Jiby"}).pretty();**

{

"\_id" : ObjectId("62749f42c9a79b75b3c952cc"),

"Rollno" : 1,

"Name" : "Jiby",

"Class" : "TE Comp"

}

> **db.Student.remove({"Name":"Hitesh"})**

WriteResult({ "nRemoved" : 1 })

> **db.Student.find().pretty();**

{

"\_id" : ObjectId("62749f42c9a79b75b3c952cc"),

"Rollno" : 1,

"Name" : "Jiby",

"Class" : "TE Comp"

}

{

"\_id" : ObjectId("62749f42c9a79b75b3c952cd"),

"Rollno" : 2,

"Name" : "Abhi",

"Class" : "TE Comp"

}

{

"\_id" : ObjectId("62749f42c9a79b75b3c952ce"),

"Rollno" : 3,

"Name" : "Ashley",

"Age" : 25

}

> **db.Student.insert({"Rollno":4,"Name":"Anna","Date\_of\_birth":"2015-09-21","Age":7})**

WriteResult({ "nInserted" : 1 })

**> db.Student.find().pretty();**

{

"\_id" : ObjectId("62749f42c9a79b75b3c952cc"),

"Rollno" : 1,

"Name" : "Jiby",

"Class" : "TE Comp"

}

{

"\_id" : ObjectId("62749f42c9a79b75b3c952cd"),

"Rollno" : 2,

"Name" : "Abhi",

"Class" : "TE Comp"

}

{

"\_id" : ObjectId("62749f42c9a79b75b3c952ce"),

"Rollno" : 3,

"Name" : "Ashley",

"Age" : 25

}

{

"\_id" : ObjectId("6274a480c9a79b75b3c952d2"),

"Rollno" : 4,

"Name" : "Anna",

"Date\_of\_birth" : "2015-09-21",

"Age" : 7

}

**use comp;**switched to db comp  
//CREATE COLLECTION WEBSITE  
> **db.createCollection('website');**{ "ok" : 1 }  
//INSERT VALUES IN WEBSITE  
>  
**db.website.insert({'roll':'1','name':'harsh','amount':1000,'ur  
l':'**[**www.yahoo.com**](http://www.yahoo.com/)**'});**WriteResult({ "nInserted" : 1 })  
>**db.website.insert({'roll':'2','name':'jitesh','amount':2000,'url':'**[**www.yahoo.com**](http://www.yahoo.com/) **'});**WriteResult({ "nInserted" : 1 })  
>**db.website.insert({'roll':'3','name':'rina','amount':3000,'url':'**[**www.google.com**](http://www.google.com/)**'  
});**WriteResult({ "nInserted" : 1 })  
>**db.website.insert({'roll':'4','name':'ash','amount':4000,'url':'**[**www.gmail.com**](http://www.gmail.com/)**'})  
;**WriteResult({ "nInserted" : 1 })  
>**db.website.insert({'roll':'5','name':'ash','amount':1000,'url':'**[**www.pvg.com**](http://www.pvg.com/)**'});**WriteResult({ "nInserted" : 1 })

**Aggregate Functions**

> **db.website.aggregate({$group:{\_id:"$name","total":{$sum:"$amount"}}});**

{ "\_id" : "harsh", "total" : 1000 }

{ "\_id" : "rina", "total" : 3000 }

{ "\_id" : "ash", "total" : 5000 }

{ "\_id" : "jitesh", "total" : 2000 }

**> db.website.aggregate({$group:{\_id:"$name","total":{$avg:"$amount"}}});**

{ "\_id" : "harsh", "total" : 1000 }

{ "\_id" : "rina", "total" : 3000 }

{ "\_id" : "ash", "total" : 2500 }

{ "\_id" : "jitesh", "total" : 2000 }

**> db.website.aggregate({$group:{\_id:"$name","total":{$max:"$amount"}}});**

{ "\_id" : "rina", "total" : 3000 }

{ "\_id" : "harsh", "total" : 1000 }

{ "\_id" : "jitesh", "total" : 2000 }

{ "\_id" : "ash", "total" : 4000 }

> **db.website.aggregate({$group:{\_id:"$name","total":{$first:"$amount"}}});**

{ "\_id" : "rina", "total" : 3000 }

{ "\_id" : "harsh", "total" : 1000 }

{ "\_id" : "jitesh", "total" : 2000 }

{ "\_id" : "ash", "total" : 4000 }

**> db.website.aggregate({$group:{\_id:"$name","total":{$last:"$amount"}}});**

{ "\_id" : "harsh", "total" : 1000 }

{ "\_id" : "rina", "total" : 3000 }

{ "\_id" : "ash", "total" : 1000 }

{ "\_id" : "jitesh", "total" : 2000 }

**> db.website.aggregate({$group:{\_id:"$name","total":{$push:"$amount"}}});**

{ "\_id" : "harsh", "total" : [ 1000 ] }

{ "\_id" : "rina", "total" : [ 3000 ] }

{ "\_id" : "ash", "total" : [ 4000, 1000 ] }

{ "\_id" : "jitesh", "total" : [ 2000 ] }

**> db.website.aggregate({$group:{\_id:"$name","total":{$sum:1}}});**

{ "\_id" : "harsh", "total" : 1 }

{ "\_id" : "rina", "total" : 1 }

{ "\_id" : "ash", "total" : 2 }

{ "\_id" : "jitesh", "total" : 1 }

**> db.website.aggregate({$group:{\_id:"$name","total":{$addToSet:"$amount"}}});**

{ "\_id" : "harsh", "total" : [ 1000 ] }

{ "\_id" : "rina", "total" : [ 3000 ] }

{ "\_id" : "ash", "total" : [ 1000, 4000 ] }

{ "\_id" : "jitesh", "total" : [ 2000 ] }