**Assignment No. 1**

**Name:** DARIAN DAJI

**Std:** TE-A

**Roll No.:** 3164018

> db.createCollection("employee",

... {

... validator:{$and:

... [

... {empid:{$exists:true}},

... {city:{$in:["Pune","Mumbai","Chennai","Delhi"]}},

... {salary:{$gt:1000}},

... {grade:{$in:["A","B","C"]}},

... {name:{$type:"string"}}

... ]}

... })

{ "ok" : 1 }

> db.employee.insert({empid:100,city:"Pune",salary:30000,grade:"A",name:"Kedar"}

)

WriteResult({ "nInserted" : 1 })

> db.employee.insert({empid:101,city:"Mumbai",salary:10000,grade:"A",name:"Kunal

"})

WriteResult({ "nInserted" : 1 })

> db.employee.find().pretty()

{

"\_id" : ObjectId("5b7f83848021d4210098d000"),

"empid" : 100,

"city" : "Pune",

"salary" : 30000,

"grade" : "A",

"name" : "Kedar"

}

{

"\_id" : ObjectId("5b7f83e88021d4210098d003"),

"empid" : 101,

"city" : "Mumbai",

"salary" : 10000,

"grade" : "A",

"name" : "Kunal"

}

> db.employee.insertMany([

... {empid:102,name:"Karan",city:"Pune",salary:50000,grade:"A"},

... {empid:103,name:"Prathamesh",city:"Delhi",salary:45000,grade:"B"},

... {empid:104,name:"Darian",city:"Chennai",salary:60000,grade:"A"},

... ])

{

"acknowledged" : true,

"insertedIds" : [

ObjectId("5b7f8acf8021d4210098d005"),

ObjectId("5b7f8acf8021d4210098d006"),

ObjectId("5b7f8acf8021d4210098d007")

]

}

> db.employee.find().pretty()

{

"\_id" : ObjectId("5b7f83848021d4210098d000"),

"empid" : 100,

"city" : "Pune",

"salary" : 30000,

"grade" : "A",

"name" : "Kedar"

}

{

"\_id" : ObjectId("5b7f83e88021d4210098d003"),

"empid" : 101,

"city" : "Mumbai",

"salary" : 10000,

"grade" : "A",

"name" : "Kunal"

}

{

"\_id" : ObjectId("5b7f8acf8021d4210098d005"),

"empid" : 102,

"name" : "Karan",

"city" : "Pune",

"salary" : 50000,

"grade" : "A"

}

{

"\_id" : ObjectId("5b7f8acf8021d4210098d006"),

"empid" : 103,

"name" : "Prathamesh",

"city" : "Delhi",

"salary" : 45000,

"grade" : "B"

}

{

"\_id" : ObjectId("5b7f8acf8021d4210098d007"),

"empid" : 104,

"name" : "Darian",

"city" : "Chennai",

"salary" : 60000,

"grade" : "A"

}

> db.employee.insertMany([

... {empid:105,name:"Abhijeet",city:"Pune",salary:90000,grade:"A"},

... {empid:106,name:"Jorginho",city:"Delhi",salary:45000,grade:"B"},

... ])

{

"acknowledged" : true,

"insertedIds" : [

ObjectId("5b7f8b978021d4210098d008"),

ObjectId("5b7f8b978021d4210098d009")

]

}

>db.employee.find().count()

7

> db.employee.update({grade:"A"},

... {$set:{salary:90000}},

... {multi:true}

... )

WriteResult({ "nMatched" : 5, "nUpserted" : 0, "nModified" : 5 })

> db.employee.find().pretty()

{

"\_id" : ObjectId("5b7f83848021d4210098d000"),

"empid" : 100,

"city" : "Pune",

"salary" : 90000,

"grade" : "A",

"name" : "Kedar"

}

{

"\_id" : ObjectId("5b7f83e88021d4210098d003"),

"empid" : 101,

"city" : "Mumbai",

"salary" : 90000,

"grade" : "A",

"name" : "Kunal"

}

{

"\_id" : ObjectId("5b7f8acf8021d4210098d005"),

"empid" : 102,

"name" : "Karan",

"city" : "Pune",

"salary" : 90000,

"grade" : "A"

}

{

"\_id" : ObjectId("5b7f8acf8021d4210098d006"),

"empid" : 103,

"name" : "Prathamesh",

"city" : "Delhi",

"salary" : 45000,

"grade" : "B"

}

{

"\_id" : ObjectId("5b7f8acf8021d4210098d007"),

"empid" : 104,

"name" : "Darian",

"city" : "Chennai",

"salary" : 90000,

"grade" : "A"

}

{

"\_id" : ObjectId("5b7f8b978021d4210098d008"),

"empid" : 105,

"name" : "Abhijeet",

"city" : "Pune",

"salary" : 90000,

"grade" : "A"

}

{

"\_id" : ObjectId("5b7f8b978021d4210098d009"),

"empid" : 106,

"name" : "Jorginho",

"city" : "Delhi",

"salary" : 45000,

"grade" : "B"

}

> db.employee.replaceOne({empid:106},

... {empid:106,name:"Eden",city:"Mumbai",salary:100000,grade:"C"}

... )

{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }

> db.employee.find().pretty()

{

"\_id" : ObjectId("5b7f83848021d4210098d000"),

"empid" : 100,

"city" : "Pune",

"salary" : 90000,

"grade" : "A",

"name" : "Kedar"

}

{

"\_id" : ObjectId("5b7f83e88021d4210098d003"),

"empid" : 101,

"city" : "Mumbai",

"salary" : 90000,

"grade" : "A",

"name" : "Kunal"

}

{

"\_id" : ObjectId("5b7f8acf8021d4210098d005"),

"empid" : 102,

"name" : "Karan",

"city" : "Pune",

"salary" : 90000,

"grade" : "A"

}

{

"\_id" : ObjectId("5b7f8acf8021d4210098d006"),

"empid" : 103,

"name" : "Prathamesh",

"city" : "Delhi",

"salary" : 45000,

"grade" : "B"

}

{

"\_id" : ObjectId("5b7f8acf8021d4210098d007"),

"empid" : 104,

"name" : "Darian",

"city" : "Chennai",

"salary" : 90000,

"grade" : "A"

}

{

"\_id" : ObjectId("5b7f8b978021d4210098d008"),

"empid" : 105,

"name" : "Abhijeet",

"city" : "Pune",

"salary" : 90000,

"grade" : "A"

}

{

"\_id" : ObjectId("5b7f8b978021d4210098d009"),

"empid" : 106,

"name" : "Eden",

"city" : "Mumbai",

"salary" : 100000,

"grade" : "C"

}

> db.employee.insert({empid:107,city:"Mumbai",salary:30000,grade:"C",name:"Kepa"}

)

WriteResult({ "nInserted" : 1 })

> db.employee.insert({empid:109,name:"Marina",city:"Delhi",salary:70000,grade

"})

WriteResult({ "nInserted" : 1 })

> db.employee.find().pretty()

{

"\_id" : ObjectId("5b7f83848021d4210098d000"),

"empid" : 100,

"city" : "Pune",

"salary" : 90000,

"grade" : "A",

"name" : "Kedar"

}

{

"\_id" : ObjectId("5b7f83e88021d4210098d003"),

"empid" : 101,

"city" : "Mumbai",

"salary" : 90000,

"grade" : "A",

"name" : "Kunal"

}

{

"\_id" : ObjectId("5b7f8acf8021d4210098d005"),

"empid" : 102,

"name" : "Karan",

"city" : "Pune",

"salary" : 90000,

"grade" : "A"

}

{

"\_id" : ObjectId("5b7f8acf8021d4210098d006"),

"empid" : 103,

"name" : "Prathamesh",

"city" : "Delhi",

"salary" : 82000,

"grade" : "B"

}

{

"\_id" : ObjectId("5b7f8acf8021d4210098d007"),

"empid" : 104,

"name" : "Darian",

"city" : "Chennai",

"salary" : 90000,

"grade" : "A"

}

{

"\_id" : ObjectId("5b7f8b978021d4210098d008"),

"empid" : 105,

"name" : "Abhijeet",

"city" : "Pune",

"salary" : 90000,

"grade" : "A"

}

{

"\_id" : ObjectId("5b7f8b978021d4210098d009"),

"empid" : 106,

"name" : "Eden",

"city" : "Mumbai",

"salary" : 100000,

"grade" : "C"

}

{

"\_id" : ObjectId("5b7f90b331cd15b83be45822"),

"empid" : 107,

"name" : "Kepa",

"city" : "Mumbai",

"salary" : 30000,

"grade" : "C"

}

{

"\_id" : ObjectId("5b837078a49a01b7dcfb58b9"),

"empid" : 109,

"name" : "Marina",

"city" : "Delhi",

"salary" : 70000,

"grade" : "A"

}

> db.employee.findOneAndReplace(

... { "name" : "Marina" },

... { empid:108,"name" : "John", city:"Delhi", salary:10000,grade:"C"}

... )

{

"\_id" : ObjectId("5b837078a49a01b7dcfb58b9"),

"empid" : 109,

"name" : "Marina",

"city" : "Delhi",

"salary" : 70000,

"grade" : "A"

}

> db.employee.update({city: {$ne: "Pune"}},

... {$inc : {salary:5000}},

... {multi:true}

... )

WriteResult({ "nMatched" : 6, "nUpserted" : 0, "nModified" : 6 })

> db.employee.update(

... {name:"Marina" },

... {

... empid:110,

... name:"Marina",

... city:"Pune",

... salary:90000,

... grade:"B"

... },

... { upsert: true }

... )

WriteResult({

"nMatched" : 0,

"nUpserted" : 1,

"nModified" : 0,

"\_id" : ObjectId("5b9f2fc06b6d19a21340292c")

})

> db.employee.remove( { city: { $eq: "Delhi" } } )

WriteResult({ "nRemoved" : 2 })

> db.employee.find().pretty()

{

"\_id" : ObjectId("5b7f83848021d4210098d000"),

"empid" : 100,

"city" : "Pune",

"salary" : 90000,

"grade" : "A",

"name" : "Kedar"

}

{

"\_id" : ObjectId("5b7f83e88021d4210098d003"),

"empid" : 101,

"city" : "Mumbai",

"salary" : 95000,

"grade" : "A",

"name" : "Kunal"

}

{

"\_id" : ObjectId("5b7f8acf8021d4210098d005"),

"empid" : 102,

"name" : "Karan",

"city" : "Pune",

"salary" : 90000,

"grade" : "A"

}

{

"\_id" : ObjectId("5b7f8acf8021d4210098d007"),

"empid" : 104,

"name" : "Darian",

"city" : "Chennai",

"salary" : 95000,

"grade" : "A"

}

{

"\_id" : ObjectId("5b7f8b978021d4210098d008"),

"empid" : 105,

"name" : "Abhijeet",

"city" : "Pune",

"salary" : 90000,

"grade" : "A"

}

{

"\_id" : ObjectId("5b7f8b978021d4210098d009"),

"empid" : 106,

"name" : "Eden",

"city" : "Mumbai",

"salary" : 105000,

"grade" : "C"

}

{

"\_id" : ObjectId("5b7f90b331cd15b83be45822"),

"empid" : 107,

"name" : "Kepa",

"city" : "Mumbai",

"salary" : 30000,

"grade" : "C"

}

{

"\_id" : ObjectId("5b9f2fc06b6d19a21340292c"),

"empid" : 110,

"name" : "Marina",

"city" : "Pune",

"salary" : 90000,

"grade" : "B"

}