Perform the following queries using update, delete, rename and createcollection method: Part – A (Use collection “Student” created in Lab-9)

1. Update the age of John's to 31.

db.Student.updateOne({name:"John"},{$set:{age:31}})



2. Update the city of all students from 'New York' to 'New Jersey'.

db.Student.updateMany({city:"New York"},{$set:{city:"New Jersey"}})

1. Set isActive to false for every student older than 35.

db.Student.updateMany({age:{$gt:35}},{$set:{isActive:false}})

1. Increment the age of all students by 1 year.

db.Student.updateMany({},{$inc:{age:1}})

1. Set the city of 'Eva' to 'Cambridge'.

db.Student.updateMany({name:"Eva"},{$set:{city:"Cambridge"}})

1. Update 'Sophia's isActive status to false.

db.Student.updateMany({name:"Sophia"},{$set:{isActive:false}})

1. Update the city field of student aged below 30 to 'San Diego'.

db.Student.updateMany({age:{$lt:30}},{$set:{city:"San Diego"}})

1. Rename the age field to years for all documents.

db.Student.updateMany({},{$rename:{age:"years"}})

1. Update 'Nick' to make him active (isActive = true).

db.Student.updateMany({name:"Nick"},{$set:{isActive:true}})

1. Update all documents to add a new field country with the value 'USA'.

db.Student.updateMany({},{$set:{country:"USA"}})

1. Update 'David's city to 'Orlando'.

db.Student.updateMany({name:"David"},{$set:{city:"orlando"}})

1. Multiply the age of all students by 2.

db.Student.updateMany({},{$mul:{age:2}})

1. Unset (remove) the city field for 'Tom'.

db.Student.updateMany({name:"Tom"},{$unset:{city:""}})

1. Add a new field premiumUser and to true for users older than 30.

db.Student.updateMany({age:{$gt:30}},{$set:{premieruser:"True"}})

1. Set isActive to true for 'Jane'.

db.Student.updateMany({name:"Jane"},{$set:{isActive:'True'}})

1. Update isActive field of 'Lucy' to false.

db.Student.updateMany({name:"Lucy"},{$set:{isActive:'False'}})

1. Delete a document of 'Nick' from the collection.

db.Student.deleteOne({name:"Nick"})

1. Delete all students who are inactive (isActive = false).

db.Student.deleteMany({inActive:"False"})

1. Delete all students who live in 'New York'.

db.Student.deleteMany({city:'New York'})

1. Delete all the students aged above 35.

db.Student.deleteMany({age:{$gt:35}})

1. Delete a student named ''Olivia'' from the collection.

db.Student.deleteMany({age:{$gt:35}})

1. Delete all the students whose age is below 25.

db.Student.deleteMany({age:{$lt:25}})

1. Delete the first student whose isActive field is true.

db.Student.deleteOne({isActive:{$eq:"True"}})

1. Delete all students from 'Los Angeles'.

db.Student.deleteMany({city:'Los Angles'})

1. Delete all students who have city field missing.

db.Student.deleteMany({city:{$eq:null}})

1. Rename 'city' field to 'location' for all documents.

db.Student.deleteMany({city:{$eq:null}})

1. Rename the name field to FullName for 'John'.

db.Student.updateMany({name:"John"},{$rename:{name:"Fullname"}})

1. Rename the isActive field to status for all documents.

db.Student.updateMany({},{$rename:{isActive:"Status"}})

1. Rename age to yearsOld for everyone from 'San Francisco' student only.

db.Student.updateMany({city:"San Francisco "},{$rename:{age:"yearsOld"}})

1. Create a Capped Collection named “Employee” as per follows:
2. Ecode and Ename are compulsory fields
3. Datatype of EID is int, Ename is string, Age is int and City is string Insert following documents into above “Employee” collection.

db.createCollection("Employee",{

capped: true,

size:5120,

max:100,

validator:{

$jsonSchema:{

bsonType:"object",

required:["Ecode","Ename"],

properties:{

Ecode:{bsonType:"int"},

Ename:{bsonType:"string"},

Age:{bsonType:"int"},

City:{bsonType:"string"}

}}}})

{"Ecode": 1, "Ename": "John"} {"Ecode ": 2, "Ename": "Jane", "age": 25, "city": "Los Angeles"} {"Ecode ": 3, "Ename": "Tom", "age": 35} {"Ecode ": 4, "Ename": "Lucy", "age": 28, "city": "San Francisco", "isActive": true} {"Ename": "Dino"}

db.Employee.insertMany([ {"Ecode": 1, "Ename": "John"} ,

{"Ecode": 2, "Ename": "Jane", "age": 25, "city": "Los Angeles"},

{"Ecode": 3, "Ename": "Tom", "age": 35},

{"Ecode": 4, "Ename": "Lucy", "age": 28, "city": "San Francisco", "isActive": true} ])