LAB-2

**I. Perform the following DB operations using MongoDB.**

1. Create a database “Student” with the following attributes Rollno, Age, ContactNo, Email-

Id.

Use Student

db.createCollection(“students”)

**2. Insert appropriate values**

db.students.insertMany([{ "Rollno": 10, "Name": "Akira", "Age": 20, "ContactNo": "1234567890", "Email-Id": "akira@gmail.com" }, { "Rollno": 11, "Name": "Meghan", "Age": 22, "ContactNo": "9876543210", "Email-Id": "meg@gmail.com" }, { "Rollno": 12, "Name": "Bob", "Age": 21, "ContactNo": "4567890123", "Email-Id": "bob@gmail.com" }, { "Rollno": 13, "Name": "Charlie", "Age": 19, "ContactNo": "7890123456", "Email-Id": "charlie@gmail.com" }, { "Rollno": 14, "Name": "Samantha", "Age": 20, "ContactNo": "3216549870", "Email-Id": "sam@gmail.com" }])

**3. Write query to update Email-Id of a student with rollno 10.**

db.students.updateOne( {Rollno:10},{$set:{'Email-Id': "kira@gmail.com"}}, {upsert:true})

**4. . Replace the student name from “ABC” to “FEM” of rollno 11**

db.students.updateOne( {Rollno:11},{$set:{Name:"Baingan"}}, {upsert:true})

II. Perform the following DB operations using MongoDB.

**1. Create a collection by name Customers with the following attributes.**

Cust\_id, Acc\_Bal, Acc\_Type

use Customer

db.createCollection(“customers”)

**2. Insert at least 5 values into the table**

Customer> db.customers.insertMany([{ "Cust\_id": 1, "Acc\_Bal": 1500, "Acc\_Type": "Z" }, { "Cust\_id": 2, "Acc\_Bal": 1000, "Acc\_Type": "A" }, { "Cust\_id": 3, "Acc\_Bal": 1300, "Acc\_Type": "Z" }, { "Cust\_id": 4, "Acc\_Bal": 1100, "Acc\_Type": "B" }, { "Cust\_id": 5, "Acc\_Bal": 1400, "Acc\_Type": "Z" }])

**3. Write a query to display those records whose total account balance is greater than**

**1200 of account type ‘Z’ for each customer\_id.**

db.customers.aggregate([ { $match: { "Acc\_Type": "Z" } }, { $group: { \_id: "$Cust\_id", totalBalance: { $sum: "$Acc\_Bal" } } }, { $match: { "totalBalance": { $gt: 1200 } } }] )

**4. Determine Minimum and Maximum account balance for each customer\_id**

Customer> db.customers.aggregate([ { $group: { \_id: "$Cust\_id", minBalance: { $min: "$Acc\_Bal" }, maxBalance: { $max: "$Acc\_Bal" } } }] )