Saturday Assignment 22BLC1194

* 1st question

import java.util.ArrayList;

import org.bson.Document;

import com.mongodb.BasicDBObject; import com.mongodb.client.\*;

import com.mongodb.client.model.Filters;

public class Connection\_practice {

public static void main(String[] args) {

MongoClient mongoClient = MongoClients.create("mongodb://localhost:27017"); MongoDatabase database = mongoClient.getDatabase("Saturday");

MongoCollection<Document> collection = database.getCollection("student"); collection.drop();

Document document1 = new Document("First\_Name", "Sai")

.append("Last\_Name", "kushal")

.append("Mark", 90)

.append("age", 18);

Document document2 = new Document("First\_Name", "suneeth")

.append("Last\_Name", "reddy")

.append("Mark", 90)

.append("age", 22);

Document document3 = new Document("First\_Name", "krishna")

.append("Last\_Name", "kishore")

.append("Mark", 91)

.append("age", 20);

Document document4 = new Document("First\_Name", "Prem")

.append("Last\_Name", "sai")

.append("Mark", 89)

.append("age", 19);

ArrayList<Document> documents = new ArrayList<Document>(); documents.add(document1);

documents.add(document2); documents.add(document3); documents.add(document4);

collection.insertMany(documents);

Document highestMark = collection.find().sort(new BasicDBObject("Mark", -1)).first(); if (highestMark != null) {

int Mark = highestMark.getInteger("Mark");

FindIterable<Document> highestMarkStudents = collection.find(Filters.eq("Mark", Mark)); System.out.println("Students with the highest mark:");

for (Document doc : highestMarkStudents) { System.out.println(doc);

}

} else {

System.out.println("No students found");

}

}

}

* 2nd question

import java.util.ArrayList;

import org.bson.Document;

import com.mongodb.BasicDBObject; import com.mongodb.client.\*;

public class Assignment\_2\_2 {

public static void main(String[] args) {

MongoClient mongoClient = MongoClients.create("mongodb://localhost:27017"); MongoDatabase database = mongoClient.getDatabase("Saturday");

MongoCollection<Document> collection = database.getCollection("employee"); collection.drop(); // Drop the collection if it exists to start fresh

Document document1 = new Document("First\_Name", "Sai")

.append("Last\_Name", "Kushal")

.append("salary", 18000)

.append("age", 30);

Document document2 = new Document("First\_Name", "Krishna")

.append("Last\_Name", "Kishore")

.append("salary", 21000)

.append("age", 35);

Document document3 = new Document("First\_Name", "Feroz")

.append("Last\_Name", "shaik")

.append("salary", 17000)

.append("age", 42);

Document document4 = new Document("First\_Name", "karthik")

.append("Last\_Name", "ram")

.append("salary", 22000)

.append("age", 37);

Document document5 = new Document("First\_Name", "suneeth")

.append("Last\_Name", "reddy")

.append("salary", 38000)

.append("age", 44);

Document document6 = new Document("First\_Name", "lalith")

.append("Last\_Name", "sri")

.append("salary", 29000)

.append("age", 32);

ArrayList<Document> documents = new ArrayList<>();

documents.add(document1); documents.add(document2); documents.add(document3); documents.add(document4); documents.add(document5); documents.add(document6);

collection.insertMany(documents);

FindIterable<Document> sortedsalary = collection.find().sort(new BasicDBObject("salary", 1)); Document lowestSalary = null;

for (Document doc : sortedsalary) { int age = doc.getInteger("age"); if (age >= 30 && age <= 40) {

lowestSalary = doc; break;

}

}

if (lowestSalary != null) {

System.out.println("Employee with the lowest salary in the age range 30 to 40:"); System.out.println(lowestSalary.toJson());

} else {

System.out.println("No employees found");

}

}

}