**CREATE A DATABASE:**

package connection;

import org.bson.Document;

import com.mongodb.client.MongoClient;

import com.mongodb.client.MongoClients;

import com.mongodb.client.MongoCollection;

import com.mongodb.client.MongoDatabase;

import com.mongodb.client.MongoIterable;

public class mongoDB {

public static void main(String[] args) {

MongoClient mongoClient = MongoClients.*create*("mongodb://localhost:27017");

MongoDatabase database=mongoClient.getDatabase("monday123");

database.createCollection("employeeRecord");

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

Document document= new Document("title","MongoDB");

collection.insertOne(document);

MongoIterable<String> loop1 = mongoClient.listDatabaseNames();

for (String name : loop1) {

System.*out*.println(name);

}

}

}

**AFTER DROPPING THE DATABASE:**

package connection;

import org.bson.Document;

import com.mongodb.client.MongoClient;

import com.mongodb.client.MongoClients;

import com.mongodb.client.MongoCollection;

import com.mongodb.client.MongoDatabase;

import com.mongodb.client.MongoIterable;

public class mongoDB {

public static void main(String[] args) {

MongoClient mongoClient = MongoClients.create("mongodb://localhost:27017");

MongoDatabase database=mongoClient.getDatabase("monday123");

database.drop();

System.out.println("Database dropped.");

MongoIterable<String> loop1 = mongoClient.listDatabaseNames();

for (String name : loop1) {

System.out.println(name);

}

}}

**CREATING AND DISPLAYING THE COLLECTION:**

package connection;

import org.bson.Document;

import com.mongodb.client.MongoClient;

import com.mongodb.client.MongoClients;

import com.mongodb.client.MongoCollection;

import com.mongodb.client.MongoDatabase;

import com.mongodb.client.MongoIterable;

public class collectionDB {

public static void main(String[] args) {

// Creating a Mongo client

MongoClient mongoClient = MongoClients.create("mongodb://localhost:27017");

MongoDatabase database = mongoClient.getDatabase("myDb");

database.createCollection("sampleCollection");

MongoIterable<String> collections = database.listCollectionNames();

for (String name : collections) {

System.out.println(name);

}

}

}

**INSERTING DOCUMENTS:**

package connection;

import java.util.ArrayList;

import java.util.List;

import org.bson.Document;

import com.mongodb.client.MongoClient;

import com.mongodb.client.MongoClients;

import com.mongodb.client.MongoCollection;

import com.mongodb.client.MongoDatabase;

public class insertionDB {

public static void main(String[] args) {

// Creating a Mongo client

MongoClient mongoClient = MongoClients.*create*("mongodb://localhost:27017");

MongoDatabase database = mongoClient.getDatabase("myDb");

// Get the collection

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

Document document = new Document("First\_Name", "Mahesh")

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

.append("Date\_Of\_Birth", "1990-08-21")

.append("e\_mail", "mahesh\_parashar.123@gmail.com")

.append("phone", "9034343345");

collection.insertOne(document);

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

documents.add(new Document("First\_Name", "Radhika")

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

.append("Date\_Of\_Birth", "1995-09-26")

.append("e\_mail", "radhika\_sharma.123@gmail.com")

.append("phone", "9000012345"));

documents.add(new Document("First\_Name", "Rachel")

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

.append("Date\_Of\_Birth", "1990-02-16")

.append("e\_mail", "Rachel\_Christopher.123@gmail.com")

.append("phone", "9000054321"));

documents.add(new Document("First\_Name", "Fathima")

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

.append("Date\_Of\_Birth", "1990-02-16")

.append("e\_mail", "Fathima\_Sheik.123@gmail.com")

.append("phone", "9000054321"));

collection.insertMany(documents);

System.*out*.println("Documents inserted.");

}

}

**RETRIEVING VALUES FROM THE COLLECTION:**

package connection;

import org.bson.Document;

import com.mongodb.client.FindIterable;

import com.mongodb.client.MongoClient;

import com.mongodb.client.MongoClients;

import com.mongodb.client.MongoCollection;

import com.mongodb.client.MongoDatabase;

import com.mongodb.client.model.Filters;

public class retrieveDB {

public static void main(String[] args) {

MongoClient mongoClient = MongoClients.*create*("mongodb://localhost:27017");

MongoDatabase database = mongoClient.getDatabase("myDb");

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

FindIterable<Document> allDocuments=collection.find();

for (Document document: allDocuments){

System.*out*.println(document);

}

System.*out*.println("\*\*\*Selected Document\*\*\*");

FindIterable<Document> documents=collection.find(Filters.*eq*("First\_Name","Mahesh"));

for(Document document: documents){

System.*out*.println(document);

}

}}

**RETRIEVING DOCUMENTS BASED ON USER INPUTS:**

package connection;

import org.bson.Document;

import java.util.Scanner;

import com.mongodb.client.FindIterable;

import com.mongodb.client.MongoClient;

import com.mongodb.client.MongoClients;

import com.mongodb.client.MongoCollection;

import com.mongodb.client.MongoDatabase;

import com.mongodb.client.model.Filters;

public class selectionvalues {

public static void main(String[] args) {

MongoClient mongoClient = MongoClients.*create*("mongodb://localhost:27017");

MongoDatabase database = mongoClient.getDatabase("myDb");

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

Scanner sc = new Scanner(System.*in*);

// Insert a new document

System.*out*.println("Enter First\_Name:");

String firstName = sc.nextLine();

System.*out*.println("Enter Last\_Name:");

String lastName = sc.nextLine();

System.*out*.println("Enter Age:");

int age = sc.nextInt();

sc.nextLine(); // Consume newline

Document newDoc = new Document("First\_Name", firstName)

.append("Last\_Name", lastName)

.append("Age", age);

collection.insertOne(newDoc);

System.*out*.println("Document inserted successfully!\n");

// Retrieve all documents

System.*out*.println("=== All Documents ===");

FindIterable<Document> allDocuments = collection.find();

for (Document doc : allDocuments) {

System.*out*.println(doc.toJson());

}

// Filtered document search using user input

System.*out*.println("\nEnter field name to filter (e.g., First\_Name):");

String filterField = sc.nextLine();

System.*out*.println("Enter value to search for:");

String filterValue = sc.nextLine();

System.*out*.println("\*\*\* Selected Document(s) \*\*\*");

FindIterable<Document> filteredDocs = collection.find(Filters.*eq*(filterField, filterValue));

for (Document doc : filteredDocs) {

System.*out*.println(doc.toJson());

}

sc.close();

mongoClient.close();

}

}