package connection;

import org.bson.Document;

import com.mongodb.client.\*;

public class CreateDatabase {

public static void main(String[] args) {

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

MongoDatabase db = client.getDatabase("bharatDB");

db.createCollection("karmachariRecords");

MongoCollection<Document> karmachariCollection = db.getCollection("sampleCollection");

Document data = new Document("vishay", "MongoDB");

karmachariCollection.insertOne(data);

MongoIterable<String> databases = client.listDatabaseNames();

for (String dbName : databases) {

System.out.println(dbName);

}

}

}

package connection;

import com.mongodb.client.\*;

public class DropDatabase {

public static void main(String[] args) {

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

MongoDatabase db = client.getDatabase("bharatDB");

db.drop();

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

MongoIterable<String> databases = client.listDatabaseNames();

for (String dbName : databases) {

System.out.println(dbName);

}

}

}

package connection;

import com.mongodb.client.\*;

public class CreateCollection {

public static void main(String[] args) {

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

MongoDatabase db = client.getDatabase("bharatDB");

db.createCollection("sampleCollection");

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

for (String name : collections) {

System.out.println(name);

}

}

}

package connection;

import java.util.\*;

import org.bson.Document;

import com.mongodb.client.\*;

public class InsertData {

public static void main(String[] args) {

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

MongoDatabase db = client.getDatabase("bharatDB");

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

Document doc1 = new Document("First\_Name", "Aarav")

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

.append("DOB", "1992-07-10")

.append("Email", "aarav.verma@example.com")

.append("Phone", "9876543210");

collection.insertOne(doc1);

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

docs.add(new Document("First\_Name", "Sneha")

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

.append("DOB", "1994-05-22")

.append("Email", "sneha.iyer@example.com")

.append("Phone", "9823456789"));

docs.add(new Document("First\_Name", "Ankit")

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

.append("DOB", "1990-11-30")

.append("Email", "ankit.shah@example.com")

.append("Phone", "9812345678"));

docs.add(new Document("First\_Name", "Meera")

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

.append("DOB", "1989-03-19")

.append("Email", "meera.khan@example.com")

.append("Phone", "9801234567"));

collection.insertMany(docs);

System.out.println("Documents added.");

}

}

package connection;

import org.bson.Document;

import com.mongodb.client.\*;

import com.mongodb.client.model.Filters;

public class RetrieveData {

public static void main(String[] args) {

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

MongoDatabase db = client.getDatabase("bharatDB");

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

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

System.out.println("=== All Records ===");

for (Document doc : allDocs) {

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

}

System.out.println("\n Records Where First\_Name = 'Aarav' ");

FindIterable<Document> filteredDocs = collection.find(Filters.eq("First\_Name", "Aarav"));

for (Document doc : filteredDocs) {

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

}

}

}

package connection;

import java.util.Scanner;

import org.bson.Document;

import com.mongodb.client.\*;

import com.mongodb.client.model.Filters;

public class UserInputSearch {

public static void main(String[] args) {

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

MongoDatabase db = client.getDatabase("bharatDB");

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

Scanner sc = new Scanner(System.in);

System.out.print("Enter First Name: ");

String fname = sc.nextLine();

System.out.print("Enter Last Name: ");

String lname = sc.nextLine();

System.out.print("Enter Age: ");

int age = sc.nextInt();

sc.nextLine(); // consume newline

Document newEntry = new Document("First\_Name", fname)

.append("Last\_Name", lname)

.append("Age", age);

collection.insertOne(newEntry);

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

System.out.println("\n=== All Records ===");

for (Document doc : collection.find()) {

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

}

System.out.print("\nEnter field to search (e.g. First\_Name): ");

String field = sc.nextLine();

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

String value = sc.nextLine();

System.out.println(" Filtered Results ");

for (Document doc : collection.find(Filters.eq(field, value))) {

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

}

sc.close();

client.close();

}

}