**PRACTICAL NO.5**

**1.Simple Queries with MongoDB.**

import static com.mongodb.client.model.Filters.\*;

import static com.mongodb.client.model.Updates.\*;

import org.bson.Document;

import com.mongodb.client.\*;

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

public class QuickStartCRUD {

public static void main(String[] args) {

// MongoDB connection string for local MongoDB server

String uri = "mongodb://localhost:27017";

try (MongoClient mongoClient = MongoClients.create(uri)) {

// Get (or create) the database

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

// Get (or create) the collection

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

// --- CREATE

Document newDoc = new Document("name", "ancel")

.append("roll", 5)

.append("city", "oros");

collection.insertOne(newDoc);

System.out.println("Inserted document: " + newDoc.toJson());

// --- READ

Document foundDoc = collection.find(eq("name", "ancel")).first();

if (foundDoc != null) {

System.out.println("Found document: " + foundDoc.toJson());

} else {

System.out.println("No matching documents found.");

}

// --- UPDATE

UpdateResult updateResult = collection.updateOne(eq("name", "ancel"), set("city", "kudal"));

System.out.println("Matched documents: " + updateResult.getMatchedCount());

System.out.println("Modified documents: " + updateResult.getModifiedCount());

// Verify update

Document updatedDoc = collection.find(eq("name", "ancel")).first();

System.out.println("Updated document: " + updatedDoc.toJson());

// --- DELETE

DeleteResult deleteResult = collection.deleteOne(eq("name", "ancel"));

System.out.println("Deleted documents count: " + deleteResult.getDeletedCount());

// Verify deletion

Document deletedDoc = collection.find(eq("name", "ancel")).first();

if (deletedDoc == null) {

System.out.println("Document successfully deleted.");

} else {

System.out.println("Document still exists: " + deletedDoc.toJson());

}

}

}

}

Output:

