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import com.mongodb.client.MongoClient;
import com.mongodb.client.MongoClients;
import com.mongodb.client.MongoDatabase;
import com.mongodb.client.MongoCollection;
import com.mongodb.client.result.DeleteResult;
import com.mongodb.client.result.UpdateResult;
import org.bson.Document;
import org.bson.conversions.Bson;
import java.util.Scanner;
import static com.mongodb.client.model.Filters.eq;
import static com.mongodb.client.model.Updates.set;
public class mongodb connectivity {
    public static void main(String[] args) {
        String connectionString = "mongodb://te31141:te31141@10.10.8.119:27017/?
authSource=te31141 db";
        MongoClient mongoClient = MongoClients.create(connectionString);
        MongoDatabase database = mongoClient.getDatabase("te31141 db");
        MongoCollection<Document> collection = database.getCollection("student");
        System.out.println("Database Connected Successfully!!");
        Scanner scanner = new Scanner(System.in);
        boolean running = true;
        while (running) {
            System.out.println("\nChoose an option:");
            System.out.println("1. Insert student");
            System.out.println("2. Delete student by name");
            System.out.println("3. Update student marks by name");
            System.out.println("4. Exit");
            System.out.print("Enter choice (1-4): ");
            int choice = -1;
            if (scanner.hasNextInt()) {
                choice = scanner.nextInt();
                scanner.nextLine(); // consume newline
            } else {
                System.out.println("Invalid input. Please enter a number between 1
and 4.");
                scanner.nextLine(); // consume invalid input
                continue;
            }
            switch (choice) {
                case 1:
                    // Insert
                    System.out.print("Enter name: ");
                    String name = scanner.nextLine();
                    System.out.print("Enter age: ");
                    int age = scanner.nextInt();
                    System.out.print("Enter marks: ");
                    int marks = scanner.nextInt();
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scanner.nextLine(); // consume newline
                    Document doc = new Document("name", name)
                            .append("age", age)
                            .append("marks", marks);
                    collection.insertOne(doc);
                    System.out.println("Student inserted.");
                    break:
                case 2:
                    // Delete by name
                    System.out.print("Enter name to delete: ");
                    String delName = scanner.nextLine();
                    DeleteResult deleteResult = collection.deleteOne(eq("name",
delName));
                    if (deleteResult.getDeletedCount() > 0) {
                        System.out.println("Student deleted successfully.");
                    } else {
                        System.out.println("No student found with that name.");
                    break;
                case 3:
                    // Update marks by name
                    System.out.print("Enter name to update marks: ");
                    String updateName = scanner.nextLine();
                    System.out.print("Enter new marks: ");
                    int newMarks = scanner.nextInt();
                    scanner.nextLine(); // consume newline
                    Bson filter = eq("name", updateName);
                    Bson updateOperation = set("marks", newMarks);
                    UpdateResult updateResult = collection.updateOne(filter,
updateOperation);
                    if (updateResult.getMatchedCount() > 0) {
                        System.out.println("Student marks updated.");
                    } else {
                        System.out.println("No student found with that name.");
                    break:
                case 4:
                    running = false;
                    System.out.println("Exiting program.");
                    break:
                default:
                    System.out.println("Invalid choice. Please select between 1
and 4.");
                    break;
            }
            // Display all documents after each operation (except exit)
            if (running) {
                System.out.println("\nAll students in collection:");
```