import com.mongodb.client.MongoCollection;

import com.mongodb.client.MongoDatabase;

import com.mongodb.client.model.Filters;

import com.mongodb.MongoClient;

import com.mongodb.MongoClientURI;

import org.bson.Document;

import java.util.Scanner;

public class InvoiceMongo {

public static void main(String[] args) {

try {

MongoClient mclient = new MongoClient(new MongoClientURI("mongodb://te31157:te31157@10.10.13.97:27017/te31157\_db"));

MongoDatabase db = mclient.getDatabase("te31157\_db");

MongoCollection<Document> col = db.getCollection("Invoice");

Scanner sc = new Scanner(System.in);

int choice, invoiceId, custId, productId, quantity;

double price;

String date;

while (true) {

System.out.println("1. Insert\n2. Delete\n3. Update\n4. Display\n5. Exit");

System.out.println("Enter choice: ");

choice = sc.nextInt();

switch (choice) {

case 1:

System.out.println("Invoice ID: ");

invoiceId = sc.nextInt();

System.out.println("Customer ID: ");

custId = sc.nextInt();

System.out.println("Product ID: ");

productId = sc.nextInt();

System.out.println("Quantity: ");

quantity = sc.nextInt();

System.out.println("Price: ");

price = sc.nextDouble();

System.out.println("Date (YYYY-MM-DD): ");

sc.nextLine();

date = sc.nextLine();

Document doc = new Document();

doc.append("invoice\_id", invoiceId);

doc.append("cust\_id", custId);

doc.append("product\_id", productId);

doc.append("quantity", quantity);

doc.append("price", price);

doc.append("date", date);

col.insertOne(doc);

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

break;

case 2:

System.out.println("Invoice ID to delete: ");

invoiceId = sc.nextInt();

col.deleteOne(Filters.eq("invoice\_id", invoiceId));

System.out.println("Invoice deleted successfully!\n");

break;

case 3:

System.out.println("Invoice ID to update: ");

invoiceId = sc.nextInt();

System.out.println("Updated Customer ID: ");

custId = sc.nextInt();

System.out.println("Updated Product ID: ");

productId = sc.nextInt();

System.out.println("Updated Quantity: ");

quantity = sc.nextInt();

System.out.println("Updated Price: ");

price = sc.nextDouble();

System.out.println("Updated Date (YYYY-MM-DD): ");

sc.nextLine();

date = sc.nextLine();

Document updatedDoc = new Document();

updatedDoc.append("invoice\_id", invoiceId);

updatedDoc.append("cust\_id", custId);

updatedDoc.append("product\_id", productId);

updatedDoc.append("quantity", quantity);

updatedDoc.append("price", price);

updatedDoc.append("date", date);

col.replaceOne(Filters.eq("invoice\_id", invoiceId), updatedDoc);

System.out.println("Invoice updated successfully!\n");

break;

case 4:

System.out.println("Displaying all invoices:");

for (Document docInvoice : col.find()) {

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

}

break;

case 5:

System.out.println("Exiting...");

mclient.close();

sc.close();

System.exit(0);

default:

System.out.println("Invalid choice, please try again.\n");

break;

}

}

} catch (Exception e) {

System.out.println(e);

}

}

}