package CRUD\_Operation;

import java.sql.Connection;

import java.sql.PreparedStatement;

import java.util.Scanner;

import crud.DB\_Connection;

public class CRUD\_Operation {

public static void main(String[] args) {

CRUD\_Operation objTest=new CRUD\_Operation();

Scanner sc= new Scanner(System.in);

System.out.println("Enter the number of students to insert: ");

int n=sc.nextInt();

for(int i=0;i<n;i++)

{

System.out.print("Enter student sl no: ");

int n1=sc.nextInt();

for(int i1=0;i1<n1;i1++)

{

System.out.print("Enter student sl no: ");

int sl\_no=sc.nextInt();

sc.nextLine();

System.out.print("Enter the student's name: ");

String name=sc.nextLine();

objTest.create\_data(sl\_no, name);

}

scanner.close();

}

public void create\_data(int sl\_no,String name){

DB\_Connection obj\_DB\_Connection=new DB\_Connection();

Connection connection=obj\_DB\_Connection.get\_connection();

PreparedStatement ps=null;

try {

String query="insert into student values (?,?)";

ps=connection.prepareStatement(query);

ps.setInt(1, sl\_no);

ps.setString(2, name);

System.out.println(ps);

ps.executeUpdate();

} catch (Exception e) {

System.out.println(e);

}

}

}

package CRUD\_Operations;

import java.sql.Connection;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import database\_connection.DBCONNECTION;

public class ReadTableData {

public static void main(String[] args) {

Connection connection = null;

PreparedStatement preparedStatement = null;

ResultSet resultSet = null;

try {

connection = DBCONNECTION.getConnection();

String sql = "SELECT id, name, email, department, salary, hire\_date FROM employees";

// Create prepared statement

preparedStatement = connection.prepareStatement(sql);

// Execute query and get result set

resultSet = preparedStatement.executeQuery();

// Process the result set

System.out.println("Employee Data:");

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

System.out.printf("%-5s %-20s %-25s %-15s %-10s %-12s%n",

"ID", "Name", "Email", "Department", "Salary", "Hire Date");

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

while (resultSet.next()) {

int id = resultSet.getInt("id");

String name = resultSet.getString("name");

String email = resultSet.getString("email");

String department = resultSet.getString("department");

double salary = resultSet.getDouble("salary");

String hireDate = resultSet.getDate("hire\_date").toString();

System.out.printf("%-5d %-20s %-25s %-15s %-10.2f %-12s%n",

id, name, email, department, salary, hireDate);

}

} catch (SQLException e) {

System.err.println("Database error: " + e.getMessage());

} finally {

try {

if (resultSet != null) resultSet.close();

if (preparedStatement != null) preparedStatement.close();

DBCONNECTION.closeConnection(connection);

} catch (SQLException e) {

System.err.println("Error closing resources: " + e.getMessage());

}

}

}

}

**package** CRUD\_Operation;

**import** java.sql.Connection;

**import** java.sql.DriverManager;

**import** java.sql.PreparedStatement;

**import** java.sql.SQLException;

**import** java.util.Scanner;

**public** **class** CRUD\_Operation {

**public** **static** **void** main(String[] args) {

CRUD\_Operation objTest = **new** CRUD\_Operation();

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

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

**int** id = sc.nextInt();

sc.nextLine();

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

String name = sc.nextLine();

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

**int** marks = sc.nextInt();

(objTest.create\_data(id, name, marks)) {

System.***out***.println("Data inserted successfully!");

scanner.close();

}

**public** **boolean** create\_data(**int** id, String name, **int** marks) {

String sql = "INSERT INTO student (id, name, marks) VALUES (?, ?, ?)";

**try** (Connection connection = DriverManager.*getConnection*("jdbc:mysql://localhost:3306/vit", "root", "");

PreparedStatement preparedStatement = connection.prepareStatement(sql)) {

preparedStatement.setInt(1, id);

preparedStatement.setString(2, name);

preparedStatement.setInt(3, marks);

**int** rowsAffected = preparedStatement.executeUpdate();

**return** rowsAffected > 0;

} **catch** (SQLException e) {

System.***err***.println("Database error: " + e.getMessage());

**return** **false**;

}

}

}

// DELETE operation for student table

public boolean deleteStudent(int studentId) {

String sql = "DELETE FROM student WHERE id = ?";

try (Connection connection = DriverManager.getConnection("jdbc:mysql://localhost:3306/crud","root", "Steve#2772");

PreparedStatement preparedStatement = connection.prepareStatement(sql

preparedStatement.setInt(1, studentId);

int rowsAffected = preparedStatement.executeUpdate();

return rowsAffected > 0;

} catch (SQLException e) {

System.err.println("Error deleting student: " + e.getMessage());

return false;

}

}

public static void main(String[] args) {

StudentCRUD crud = new StudentCRUD();

Scanner scanner = new Scanner(System.in);

System.out.println("Current Students:");

crud.readAllStudents();

System.out.print("\nEnter student ID to delete: ");

int studentId = scanner.nextInt()

if (crud.deleteStudent(studentId)) {

System.out.println("Student with ID " + studentId + " deleted successfully!");

System.out.println("\nUpdated Student List:");

crud.readAllStudents();

} else {

System.out.println("Failed to delete student. ID " + studentId + " may not exist.");

}

scanner.close();

}