**// 31139 – Durvesh – DBMSLC2**

**// Sample Code**

package mysqljava;  
  
import java.sql.\*;  
import java.util.ArrayList;  
import java.util.Scanner;  
  
public class Main {  
  
 public static void main(String[] args) throws ClassNotFoundException, SQLException {  
 Statement stmt;  
 Scanner scanner = new Scanner(System.*in*);  
 ResultSet rs;  
 String username, pass, url;  
 Connection con;  
 url = "jdbc:mysql://localhost:3306/c2";  
 Class.*forName*("com.mysql.cj.jdbc.Driver");  
 username = "root";  
 pass = "mysql";  
 con = DriverManager.*getConnection*(url, username, pass);  
 stmt = con.createStatement();  
 System.*out*.println("-------------Welcome to Employee Database!-----------");  
 int basechoice = 0,subchoice;  
 while(basechoice!=5){  
 System.*out*.println("1. View Database 2. Insert Record 3. Update Records 4. Delete Records 5. Exit");  
 basechoice = scanner.nextInt();  
 switch (basechoice){  
 case 1:  
 System.*out*.println("1. Show all 2. Show Selective");  
 subchoice = scanner.nextInt();  
 switch (subchoice){  
 case 1:  
 rs = stmt.executeQuery("SELECT \* from employee");  
 while(rs.next()){  
 System.*out*.println(rs.getString(1)+" \t\t - "+rs.getInt(2)+  
 " \t\t - "+rs.getInt(3)+" \t\t - "+rs.getString(4));  
 }  
 break;  
 case 2:  
 scanner.nextLine();  
 int whereflag=0;  
 System.*out*.println("Enter your where column");  
 String wherecolumn = scanner.nextLine();  
 if(wherecolumn.equals("name")||wherecolumn.equals("city")){  
 whereflag=1;  
 }  
 System.*out*.println("Enter your where condition e.g >,=,<");  
 String wherecondition = scanner.nextLine();  
 System.*out*.println("Enter your where value");  
 String where = scanner.nextLine();  
 if(whereflag==1){  
 where = "\""+where+"\"";  
 }  
 rs = stmt.executeQuery("SELECT \* from employee WHERE "+wherecolumn+wherecondition+where+";");  
 while(rs.next()){  
 System.*out*.println(rs.getString(1)+" \t\t - "+rs.getInt(2)+  
 " \t\t - "+rs.getInt(3)+" \t\t - "+rs.getString(4));  
 }  
 break;  
 }  
 break;  
 case 2:  
 scanner.nextLine();  
 System.*out*.print("Enter Name: ");  
 String employeename = scanner.nextLine();  
 System.*out*.print("Enter EmployeeID: ");  
 int id = scanner.nextInt();  
 System.*out*.print("Enter Salary: ");  
 int salary = scanner.nextInt();  
 System.*out*.print("Enter City: ");  
 scanner.nextLine();  
 String city = scanner.nextLine();  
 stmt.executeUpdate("INSERT INTO employee values (\""+employeename+"\","+id+","+salary+",\""+city+"\");");  
 System.*out*.println("-------------Entry inserted--------------");  
 break;  
 case 3:  
 scanner.nextLine();  
 System.*out*.println("Enter Column to be updated");  
 String updatecolumn = scanner.nextLine();  
 int flag =0;  
 if(updatecolumn.equals("name")||updatecolumn.equals("city")){  
 flag=1;  
 }  
 System.*out*.println("1. Update all 2. Update Selective");  
 subchoice = scanner.nextInt();  
 switch (subchoice){  
 case 1:  
 scanner.nextLine();  
 System.*out*.println("Enter new value of the column");  
 String value = scanner.nextLine();  
 if(flag==1){  
 value = "\""+value+"\"";  
 }  
 stmt.executeUpdate("UPDATE employee SET "+updatecolumn+"="+value+";");  
 System.*out*.println("-------------Values Updated-------------");  
 break;  
 case 2:  
 scanner.nextLine();  
 int whereflag=0;  
 System.*out*.println("Enter your where column");  
 String wherecolumn = scanner.nextLine();  
 if(wherecolumn.equals("name")||wherecolumn.equals("city")){  
 whereflag=1;  
 }  
 System.*out*.println("Enter your where condition e.g >,=,<");  
 String wherecondition = scanner.nextLine();  
 System.*out*.println("Enter your where value");  
 String where = scanner.nextLine();  
 if(whereflag==1){  
 where = "\""+where+"\"";  
 }  
 System.*out*.println("Enter new value of the column");  
 String newvalue = scanner.nextLine();  
 if(flag==1){  
 newvalue = "\""+newvalue+"\"";  
 }  
 stmt.executeUpdate("UPDATE employee SET "+  
 updatecolumn+"="+newvalue+" WHERE "+wherecolumn+wherecondition+where+";");  
 System.*out*.println("-------------Values Updated-------------");  
 break;  
 }  
 break;  
 case 4:  
 System.*out*.println("1. Delete all 2. Delete Selective");  
 subchoice = scanner.nextInt();  
 switch (subchoice){  
 case 1:  
 stmt.executeUpdate("DELETE FROM employee;");  
 System.*out*.println("-------------Values Deleted-------------");  
 break;  
 case 2:  
 scanner.nextLine();  
 int whereflag=0;  
 System.*out*.println("Enter your where column");  
 String wherecolumn = scanner.nextLine();  
 if(wherecolumn.equals("name")||wherecolumn.equals("city")){  
 whereflag=1;  
 }  
 System.*out*.println("Enter your where condition e.g >,=,<");  
 String wherecondition = scanner.nextLine();  
 System.*out*.println("Enter your where value");  
 String where = scanner.nextLine();  
 if(whereflag==1){  
 where = "\""+where+"\"";  
 }  
 stmt.executeUpdate("DELETE FROM employee WHERE "+wherecolumn+wherecondition+where+";");  
 System.*out*.println("-------------Values Deleted-------------");  
 break;  
 }  
 break;  
 case 5:  
 break;  
 }  
 }  
 }  
}

**// Outputs**











