Assignment No:-58

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Batch: - Delta - DCA (Java) 2024   Date:-3/8/2024

STUDENT MANAGEMENT SYSTEM

CRUD OPERATIONS: Make the menu program of all the given below operation.

Crud: Create retrieve update and delete

1. Admin can add the Student information

2. Admin can view the list of Students

3. Admin can edit the Student information

4. Admin can delete the Student information.

Employee Field: id, name, course, city, total marks, phone no.

Technology: Core Java, JDBC and Mysql

```java
package assignment58.JDBCMiniProject;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.Scanner;

public class JdbcMiniProject
{
    static Connection con;
    static String insert;
    static String select;
    static String update;
    static String delete;
    static PreparedStatement ps;
```

```java
    static Scanner sc;
    public static void createConnection()
    {
        try
        {
            Class.forName("com.mysql.cj.jdbc.Driver");
            con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/assignm
entno_3","root","12345");
            insert="insert into Employee
values(?,?,?,?,?,?)";
            select="select * from Employee";
            update="update Employee set Emp_Name=?, Course=?,
City=?, Total_Marks=?, Phone_No=? where Emp_Id=?";
            delete="delete from Employee where Emp_Id=?";
        }
        catch (Exception e)
        {
            e.printStackTrace();
        }
    }
    public static void insertQuery()
    {

        try
        {
            ps = con.prepareStatement(insert);

            while(true)
            {
                Scanner sc = new Scanner(System.in);

                System.out.println("enter Emp_Id : ");
                int id = sc.nextInt();
                ps.setInt(1, id);
                System.out.println("Enter Emp_Name : ");
                String name = sc.next();

                ps.setString(2, name);

                System.out.println("Enter Course : ");
                String course = sc.next();
                ps.setString(3, course);

                System.out.println("Enter City : ");
                String City = sc.next();
                ps.setString(4, City);
```

```java
                    System.out.println("Enter Total_Marks : ");
                    double total_Marks = sc.nextDouble();
                    ps.setDouble(5, total_Marks);

                    System.out.println("Enter Phone_No : ");
                    String phone_No = sc.next();
                    ps.setString(6, phone_No);

                    ps.addBatch();

                    System.out.println("Do you want to conitue
press yes(y) or No (n) : ");
                    char c = sc.next().charAt(0);
                    if(c=='n')
                        break;
                }
                ps.executeBatch();

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

        }
        catch (Exception e)
        {
                e.printStackTrace();
        }

    }
    public static void selectQuery()
    {
        try
        {
            ps = con.prepareStatement(select);
            ResultSet rs = ps.executeQuery();
            System.out.println("+-------+---------+--------
+------+------------+---------+");
            System.out.println("| Emp_id | Emp_Name | Course
| City | Total_Marks | Phone_No |");
            System.out.println("+-------+---------+--------
+------+------------+---------+");
            while(rs.next())
            {
                System.out.println("|     "+rs.getInt(1)+"
| "+rs.getString(2)+"  | "+rs.getString(3)+"    |
"+rs.getString(4)+"  | "+rs.getDouble(5)+"        |
"+rs.getString(6)+" | ");
```

```java
                System.out.println("+-------+---------+---
-----+------+------------+---------+");
            }
        }
        catch (Exception e)
        {
            e.printStackTrace();
        }
    }
    public static void updateQuery()
    {
        try
        {
            sc = new Scanner(System.in);
            ps = con.prepareStatement(update);
            System.out.println("Enter Emp_Name : ");
            String name = sc.next();

            ps.setString(1, name);

            System.out.println("Enter Course : ");
            String course = sc.next();
            ps.setString(2, course);

            System.out.println("Enter City : ");
            String City = sc.next();
            ps.setString(3, City);

            System.out.println("Enter Total_Marks : ");
            double total_Marks = sc.nextDouble();
            ps.setDouble(4, total_Marks);

            System.out.println("Enter Phone_No : ");
            String phone_No = sc.next();
            ps.setString(5, phone_No);

            System.out.println("enter Emp_Id : ");
            int id = sc.nextInt();
            ps.setInt(6, id);
            System.out.println("updeted successfull...");
            ps.executeUpdate();
        }
        catch (Exception e)
        {
            e.printStackTrace();
        }
    }
```

```java
    public static void deleteQuery()
    {
        try
        {
            sc = new Scanner(System.in);
            ps = con.prepareStatement(delete);
            System.out.println("enter Emp_Id : ");
            int id = sc.nextInt();
            ps.setInt(1, id);
            System.out.println("deleted successfull...");
            ps.executeUpdate();
        }
        catch (Exception e)
        {
            e.printStackTrace();
        }
    }
    public static void main(String[] args) throws SQLException
    {

        try
        {
            createConnection();
            Scanner sc = new Scanner(System.in);
            System.out.print("Enter given choice\n");
            int ch=1;
            while(ch!=-1)
            {
                System.out.print(""
                                + "-------------------------------
----\n"

                                + "1.Insert student
information:\n"
                                + "2.View the list of student:\n"
                                + "3.Edit the student
information:\n"
                                + "4.Delete the student
information:\n"
                                + "5.Terminate the loop:\n");
                ch=sc.nextInt();
                switch(ch)
                {
                    case 1: insertQuery();
                    break;
                    case 2 : selectQuery();
                    break;
                    case 3 : updateQuery();
```

```java
                        break;
                    case 4 : deleteQuery();
                        break;
                    case 5 : ch=-1;
                    System.out.println("Teriminated...!");
                        break;
                }
            }
        }
        catch (Exception e)
        {
            e.printStackTrace();
        }
        finally {
            con.close();
        }
    }

}
```

```
Enter given choice
---------------------------------
1.Insert student information:
2.View the list of student:
3.Edit the student information:
4.Delete the student information:
5.Terminate the loop:
1
enter Emp_Id :
5
Enter Emp_Name :
sangram
Enter Course :
java
Enter City :
karad
Enter Total_Marks :
789
Enter Phone_No :
56695687
Do you want to conitue press yes(y) or No (n) :
n
Data inserted successfully...

---------------------------------
1.Insert student information:
2.View the list of student:
3.Edit the student information:
4.Delete the student information:
5.Terminate the loop:
2
+--------+----------+--------+------+-------------+----------+
| Emp_id | Emp_Name | Course | City | Total_Marks | Phone_No |
+--------+----------+--------+------+-------------+----------+
|      1 | Raj  | PHP    | kadrd  | 890.0       | 96509746 |
+--------+----------+--------+------+-------------+----------+
```

```
|      2 | aditya  | java   | karad | 678.0       | 975497954 |
+--------+---------+--------+------+-------------+----------+
|      3 | omkar   | java   | karad | 586.0       | 680495860 |
+--------+---------+--------+------+-------------+----------+
|      4 | manasi  | java   | karad | 494.0       | 49850349 |
+--------+---------+--------+------+-------------+----------+
|      5 | sangram | java   | karad | 789.0       | 56695687 |
+--------+---------+--------+------+-------------+----------+
---------------------------------
1.Insert student information:
2.View the list of student:
3.Edit the student information:
4.Delete the student information:
5.Terminate the loop:
3
Enter Emp_Name :
pallavi
Enter Course :
java
Enter City :
karad
Enter Total_Marks :
789
Enter Phone_No :
78958578
enter Emp_Id :
4
updeted successfull...
---------------------------------
1.Insert student information:
2.View the list of student:
3.Edit the student information:
4.Delete the student information:
5.Terminate the loop:
2
+--------+---------+--------+------+-------------+----------+
```

```
| Emp_id | Emp_Name | Course | City | Total_Marks | Phone_No |
+--------+----------+--------+------+-------------+----------+
|      1 | Raj  | PHP    | kadrd  | 890.0       | 96509746 |
+--------+----------+--------+------+-------------+----------+
|      2 | aditya | java   | karad  | 678.0       | 975497954 |
+--------+----------+--------+------+-------------+----------+
|      3 | omkar  | java   | karad  | 586.0       | 680495860 |
+--------+----------+--------+------+-------------+----------+
|      4 | pallavi | java   | karad  | 789.0       | 78958578 |
+--------+----------+--------+------+-------------+----------+
|      5 | sangram | java   | karad  | 789.0       | 56695687 |
+--------+----------+--------+------+-------------+----------+
-----------------------------------
1.Insert student information:
2.View the list of student:
3.Edit the student information:
4.Delete the student information:
5.Terminate the loop:
4
enter Emp_Id :
4
deleted successfull...
-----------------------------------
1.Insert student information:
2.View the list of student:
3.Edit the student information:
4.Delete the student information:
5.Terminate the loop:
2
+--------+----------+--------+------+-------------+----------+
| Emp_id | Emp_Name | Course | City | Total_Marks | Phone_No |
+--------+----------+--------+------+-------------+----------+
|      1 | Raj  | PHP    | kadrd  | 890.0       | 96509746 |
+--------+----------+--------+------+-------------+----------+
|      2 | aditya | java   | karad  | 678.0       | 975497954 |
+--------+----------+--------+------+-------------+----------+
```

```
1.Insert student information:
2.View the list of student:
3.Edit the  student information:
4.Delete the student information:
5.Terminate the loop:
4
enter Emp_Id :
4
deleted successfull...
---------------------------------
1.Insert student information:
2.View the list of student:
3.Edit the  student information:
4.Delete the student information:
5.Terminate the loop:
2
+--------+----------+--------+------+-------------+----------+
| Emp_id | Emp_Name | Course | City | Total_Marks | Phone_No |
+--------+----------+--------+------+-------------+----------+
|      1 | Raj    | PHP     | kadrd  | 890.0       | 96509746 |
+--------+----------+--------+------+-------------+----------+
|      2 | aditya   | java    | karad  | 678.0       | 975497954 |
+--------+----------+--------+------+-------------+----------+
|      3 | omkar    | java    | karad  | 586.0       | 680495860 |
+--------+----------+--------+------+-------------+----------+
|      5 | sangram  | java    | karad  | 789.0       | 56695687 |
+--------+----------+--------+------+-------------+----------+
---------------------------------
1.Insert student information:
2.View the list of student:
3.Edit the  student information:
4.Delete the student information:
5.Terminate the loop:
5
Teriminated...!
```