

Assignment No 8

CODE

```
import java.io.*;
import java.util.Scanner;
import java.sql.*;
public class DBMS8 {
    public void Display() {
        try {
            Class.forName("com.mysql.jdbc.Driver");
            Connection con =
                DriverManager.getConnection("jdbc:mysql://localhost:3306/DBMS8", "redhat", "redhat");

            Statement st = con.createStatement();
            ResultSet rs = st.executeQuery("select *
from Student_Data");

            while (rs.next())
                System.out.println(rs.getInt(1) + " " +
rs.getString(2) + " " + rs.getInt(3) + " " +
rs.getString(4));
            con.close();
        } catch (Exception e) {
            System.out.println(e);
        }
    }

    public void Insert(int i1, String nm, int i2,
String ct) {
        try {
            Class.forName("com.mysql.jdbc.Driver");
            Connection con =
                DriverManager.getConnection("jdbc:mysql://localhost:3306/DBMS8", "root", "root1234 ");

            PreparedStatement pstmt =
con.prepareStatement("insert into
Student_Data values(?,?,?,?)");
            pstmt.setInt(1, i1);
            pstmt.setString(2, nm);
            pstmt.setInt(3, i2);
            pstmt.setString(4, ct);
            int i = pstmt.executeUpdate();
            con.close();
        } catch (Exception e) {
            System.out.println(e);
        }
    }

    public void delete(int i) {
        try {
            Class.forName("com.mysql.jdbc.Driver");
            Connection con =
                DriverManager.getConnection("jdbc:mysql://localhost:3306/DBMS8", "root", "root1234 ");

            PreparedStatement pstmt =
con.prepareStatement("delete from
Student_Data where Student_Id = ? ");
            pstmt.setInt(1, i);
            int k = pstmt.executeUpdate();
            con.close();
        } catch (Exception e) {
            System.out.println(e);
        }
    }

    public void Update(String name, int i) {
        try {
            Class.forName("com.mysql.jdbc.Driver");
            Connection con =
                DriverManager.getConnection("jdbc:mysql://localhost:3306/DBMS8", "root", "root1234 ");

            PreparedStatement pstmt =
con.prepareStatement("update Student_Data
set Student_Name=?where Student_Id = ? ");
            pstmt.setString(1, name);
            pstmt.setInt(2, i);
            int k = pstmt.executeUpdate();
            con.close();
        } catch (Exception e) {
            System.out.println(e);
        }
    }

    public static void main(String[] args) throws
Exception {
        Scanner sc = new Scanner(System.in);
        DBMS8 obj1 = new DBMS8();
        int ch;
        String n1, c1;
        int id1, id2;
```

```

        System.out.println("*****JDBC-MySQL
Connected*****");
        System.out.println("List of operations:");
        System.out.println(" 1.Display all
Records");
        System.out.println(" 2.Insert new
Record");
        System.out.println(" 3.Update a Record");
        System.out.println(" 4.Delete a Record");
        System.out.println(" 5.Exit");
        System.out.println("");
        System.out.println(" Enter your Choice");

        ch = sc.nextInt();
        switch (ch) {
        case 1:
            obj1.Display();
            break;
        case 2:
            System.out.println("Enter Student Id:
");
            id1 = sc.nextInt();
            System.out.println("Enter Student
Name: ");
            n1 = sc.next();

            System.out.println("Enter Instructor Id:
");
            id2 = sc.nextInt();
            System.out.println("Enter Student City:
");
            c1 = sc.next();
            obj1.Insert(id1, n1, id2, c1);
            break;
        case 3:
            System.out.println("Enter Student Id:
");
            int stid = sc.nextInt();
            System.out.println("Enter Student
name: ");
            obj1.Update("harry", stid);
            break;
        case 4:
            System.out.println("Enter id of student
to delete :");
            int sid = sc.nextInt();
            obj1.delete(sid);
            break;
        }
    } while (ch != 5);
}
}

```

OUTPUT

Student_Id	Student_Name	Instructor_Id	Student_City
1	Abhishek	101	Mumbai
2	Aditya	102	Delhi
3	Palash	103	Chennai
4	Dnyanu	104	Kolkata

```

4 Dnyanu 104 Kolkata
Enter your Choice
2
Enter Student Id: 5
Enter Student Name: Arjun
Enter Instructor Id: 105
Enter Student City: Bangalore
Record inserted successfully!
Enter your Choice
3
Enter Student Id: 2
Enter new Student name: Surya
Record updated successfully!
Enter your Choice
4
Enter id of student to delete: 3
Record deleted successfully!
Enter your Choice
6
Exiting the program.

```

*****JDBC-MySQL Connected*****

List of operations:

1. Display all Records
 2. Insert new Record
 3. Update a Record
 4. Delete a Record
 5. Search for a Record
 6. Display Records by City
 7. Exit
- Enter your Choice
- 1
- 1 Abhishek 101 Mumbai
- 2 Aditya 102 Delhi
- 3 Palash 103 Chennai