Practical No : 04

Title : Study and implement concept of JDBC Classes in java

A] WAP to perform CRUD operation on data with JDBC Connectivity

B] Create a Registration form of student using JDBC

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**A] WAP to perform CRUD operation on data with JDBC Connectivity**

**Eclipse program:**

**import**java.sql.\*;

**publicclass** JdbcDemo2

{

**publicstaticvoid** main(String args[])

{

**try**

{

Class.*forName*("oracle.jdbc.driver.OracleDriver");

Connection con= DriverManager.*getConnection*

("jdbc:oracle:thin:@localhost:1521:xe","system","system");

String sql = "INSERT INTO STUDENT1(roll\_no, sname, scity) VALUES (?, ?, ?)";

PreparedStatement statement = con.prepareStatement(sql);

statement.setString(1, "6");

statement.setString(2, "ROHAN");

statement.setString(3, "TOKYO");

**int**rowsInserted = statement.executeUpdate();

**If** (rowsInserted> 0)

{

System.***out***.println("\nA new user was inserted successfully!");

}

*select*();

*update*();

*delete*();

con.close();

}**catch** (Exception e2)

{

System.***out***.println(e2);

}

}

**privatestaticvoid** delete() {

// **TODO** Auto-generated method stub

**try**

{

Connection con=DriverManager.*getConnection*("jdbc:oracle:thin:@localhost:1521:xe","system","system");

String sql = "DELETE FROM student1 WHERE roll\_no=?";

PreparedStatement statement = con.prepareStatement(sql);

statement.setString(1, "2");

**int**rowsDeleted = statement.executeUpdate();

**if** (rowsDeleted> 0)

{

System.***out***.println("\nA user was deleted successfully!");

}

*select*();

con.close();

}**catch** (Exception e2)

{

System.***out***.println(e2);

}

}

**privatestaticvoid** update() {

// **TODO** Auto-generated method stub

**try**

{

Class.*forName*("oracle.jdbc.driver.OracleDriver");

Connection con=DriverManager.*getConnection*("jdbc:oracle:thin:@localhost:1521:xe","system","system");

//Insert data

String sql = "UPDATE student1 set sname='SIYA', scity='FLORIDA' WHEREroll\_no=?";

PreparedStatement statement = con.prepareStatement(sql);

statement.setString(1, "3");

**int**rowsInserted = statement.executeUpdate();

**if** (rowsInserted> 0) {

System.***out***.println("\nA new user was updated successfully!");

}

*select*();

con.close();

}**catch** (Exception e2)

{

System.***out***.println(e2);

}

}

**privatestaticvoid** select() {

// **TODO** Auto-generated method stub

**try**

{

Connection con=DriverManager.*getConnection*("jdbc:oracle:thin:@localhost:1521:xe","system","system");

Statement stmt = con.createStatement();

ResultSet result = stmt.executeQuery("SELECT \* FROM student1");

System.***out***.println("selected records:");

**while** (result.next()){

System.***out***.println(result.getString(1)+" "+result.getString(2)+" "+result.getString(3));

}

con.close();

}**catch** (Exception e2)

{

System.***out***.println(e2);

}

}

}

**OUTPUT:**

A new user was inserted successfully!

selected records:

1 Rahul Jalna

2 Rajkumar Pune

3 Sameer Hyderabad

4 Sunil Mumbai

5 Vijay Aurangabad

6 Sachin Mumbai

A new user was updated successfully!

selected records:

1 Rahul Jalna

2 Rajkumar Pune

3 Sameer Hyderabad

4 Sunil Mumbai

5 Vijay Aurangabad

6 Sachin Mumbai

A user was deleted successfully!

selected records:

1 Rahul Jalna

2 Sushil Pune

3 Sameer Hyderabad

4 Sunil Mumbai

5 Vijay Aurangabad

6 Sachin Mumbai

**B] Create a Registration form of student using JDBC**

**Index.html**

<!DOCTYPEhtml>

<html>

<head>

<metacharset=*"ISO-8859-1"*>

<title>welcome to registration form</title>

</head>

<body>

<divclass=*"inputform"*>

<h2class=*"design"*>Registration Form</h2>

<formaction=*"Registration\_jdbc"*method=*"get"*>

<table>

<tr><td>Name:</td><td><inputtype=*"text"*

name=*"name"*/></td></tr>

<tr><td>Email:</td><td><inputtype=*"text"*

name=*"email"*/></td></tr>

<tr><td>Password:</td><td><inputtype=*"password"*

name=*"password"*/></td></tr>

<tr><td>Gender:</td><td><inputid=*"gender1"*

type=*"radio"*name=*"gender"*value=*"male"*/>Male

<inputtype=*"radio"*id=*"gender2"*name=*"gender"*

value=*"female"*/>Female

</td></tr>

<tr><td>AddressLine:</td><td><textarea

name=*"addressLine"*rows=*"5"*cols=*"15"*></textarea></td></tr>

<tr><td>City:</td><td><inputtype=*"text"*

name=*"city"*/></td></tr>

<tr><td>State:</td><td><inputtype=*"text"*

name=*"state"*/></td></tr>

<tr><td>Country:</td><td><selectname=*"country"*>

<option>Select-Country:</option>

<option>India</option>

<option>Japan</option>

<option>USA</option>

</select></td></tr>

<tr><td>Contact:</td><td><inputtype=*"text"*

name=*"contact"*/></td></tr>

<tr><tdcolspan=*"2"*><inputid=*"submit"*type=*"submit"*

value=*"register"*/>

<inputid=*"reset"*type=*"reset"*value=*"clear"*/>

</td></tr>

</table>

</form>

</div>

</body>

</html>

**Reg\_jbbc.java**

importjava.sql.Connection;

importjava.sql.DriverManager;

importjava.sql.PreparedStatement;

importjava.sql.ResultSet;

public class Reg\_jbbc {

public static int save(String name,Stringemail,Stringpassword,Stringgender,String

addressLine,Stringcity,Stringstate,Stringcountry,String contact){

int status=0;

try{

Class.forName("oracle.jdbc.driver.OracleDriver");

Connection

con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521

:xe","system","system");

PreparedStatementps=con.prepareStatement("insert into

RegisterStudent(name,email,password,gender,addressLine,city,state,co

untry,contact) values(?,?,?,?,?,?,?,?,?)");

ps.setString(1,name);

ps.setString(2,email);

ps.setString(3,password);

ps.setString(4,gender);

ps.setString(5,addressLine);

ps.setString(6,city);

ps.setString(7,state);

ps.setString(8,country);

ps.setString(9,contact);

status=ps.executeUpdate();

ResultSetrs=ps.executeQuery("select \* from registeruser");

while(rs.next())

{

System.out.println(rs.getString(1)+" "+ rs.getString(2)+" "+ rs.getString(3)+" "+ rs.getString(4)+" "+ rs.getString(5)+" "+ rs.getString(6)+" "+ rs.getString(7)+" "+ rs.getString(8)+" "+ rs.getString(9));

}

}catch(Exception e){System.out.println(e);}

return status;

}

}

**Registration\_jdbc.java**

importjava.io.IOException;

importjava.io.PrintWriter;

importjavax.servlet.ServletException;

importjavax.servlet.annotation.WebServlet;

importjavax.servlet.http.HttpServlet;

importjavax.servlet.http.HttpServletRequest;

importjavax.servlet.http.HttpServletResponse;

public class Registration\_jdbc extends HttpServlet

{

private static final long serialVersionUID = 1L;

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

PrintWriter out=response.getWriter();

String name=request.getParameter("name");

String password=request.getParameter("password");

String email=request.getParameter("email");

String gender=request.getParameter("gender");

String addressLine=request.getParameter("addressLine");

String city=request.getParameter("city");

String state=request.getParameter("state");

String country=request.getParameter("country");

String contact=request.getParameter("contact");

int status=Reg\_jbbc.save(name, email+"@gmail.com", password, gender, addressLine, city, state, country, contact);

if(status>0){

out.print("<p>You are successfully registered!</p>");

}

}

}

**OUTPUT** :

