Demonstrate Insertion, Updation, and Deletion of DatabaseRecords using JDBC. HTML

<html>

<head>

<meta charset="UTF-8">

<title>JDBC Insert, Update, Delete</title> </head>

<body>

<a href="ProductDetails">Product Info</a><br> </body>

</html>

Properties

url=jdbc:mysql://localhost:3306/ecommerce userid=root

password=Gokul@12

DBConnection

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.SQLException;

public class DBConnection {

private Connection connection;

public DBConnection(String dbURL, String user, String pwd) throws ClassNotFoundException, SQLException{ Class.forName("com.mysql.jdbc.Driver");

this.connection = DriverManager.getConnection(dbURL, user, pwd); }

public Connection getConnection(){

return this.connection;

}

public void closeConnection() throws SQLException {

if (this.connection != null)

this.connection.close();

}

}

SERVLET

package com.ecommerce; import java.io.IOException; import java.io.InputStream; import java.io.PrintWriter; import java.sql.ResultSet; import java.sql.SQLException; import java.util.Properties; import java.sql.Statement;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

/\*\*

* Servlet implementation class ProductDetails

\*/

@WebServlet("/ProductDetails")

public class ProductDetails extends HttpServlet {

private static final long serialVersionUID = 1L;

/\*\*

* @see HttpServlet#HttpServlet()

\*/

public ProductDetails() {

super();

// TODO Auto-generated constructor stub

}

/\*\*

* @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)

\*/

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

// TODO Auto-generated method stub

try {

PrintWriter out = response.getWriter();

out.println("<html><body>");

InputStream in = getServletContext().getResourceAsStream("/WEB- INF/config.properties");

Properties props = new Properties();

props.load(in);

DBConnection conn = new DBConnection(props.getProperty("url"), props.getProperty("userid"), props.getProperty("password"));

Statement stmt =

conn.getConnection().createStatement(ResultSet.TYPE\_SCROLL\_INSENSITIVE, ResultSet.CONCUR\_READ\_ONLY);

stmt.executeUpdate("insert into eproduct (name, price, date\_added) values ('New Product', 17800.00, now())");

out.println("Executed an insert operation<br>"); stmt.executeUpdate("update eproduct set price=2000 where name = 'New Product'");

out.println("Executed an update operation<br>"); stmt.executeUpdate("delete from eproduct where name = 'New Product'"); out.println("Executed a delete operation<br>");

stmt.close();

conn.closeConnection();

out.println("</body></html>");

conn.closeConnection();

} catch (ClassNotFoundException e) {

e.printStackTrace();

} catch (SQLException e) {

e.printStackTrace();

}

}

/\*\*

* @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

\*/

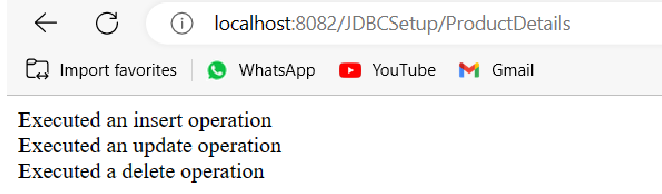
protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

// TODO Auto-generated method stub

doGet(request, response);

}

}



Stored Procedures with Exceptions HTML

<!DOCTYPE html>

<html>

<head>

<meta charset="ISO-8859-1">

<title>JDBC Statements and Resultsets</title> </head>

<body>

<a href="DemoJDBC">Product Info</a><br> </body>

</html>

Properties

url=jdbc:mysql://localhost:3306/ecommerce userid=root

password=Gokul@12

DBConnection

package com.ecommerce;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.SQLException;

public class DBConnection {

private Connection connection;

public DBConnection(String dbURL, String user, String pwd) throws ClassNotFoundException, SQLException{ Class.forName("com.mysql.jdbc.Driver");

this.connection = DriverManager.getConnection(dbURL, user, pwd); }

public Connection getConnection(){

return this.connection;

}

public void closeConnection() throws SQLException {

if (this.connection != null)

this.connection.close();

}

}

SERVLET

package com.ecommerce; import java.io.IOException; import java.io.InputStream; import java.io.PrintWriter; import java.math.BigDecimal; import java.sql.CallableStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

import java.util.Properties;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

/\*\*

* Servlet implementation class DemoJDBC

\*/

@WebServlet("/DemoJDBC")

public class DemoJDBC extends HttpServlet {

private static final long serialVersionUID = 1L;

/\*\*

* @see HttpServlet#HttpServlet()

\*/

public DemoJDBC() {

super();

// TODO Auto-generated constructor stub

}

/\*\*

* @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)

\*/

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws

ServletException, IOException {

// TODO Auto-generated method stub

try {

PrintWriter out = response.getWriter();

out.println("<html><body>");

InputStream in = getServletContext().getResourceAsStream("/WEB- INF/config.properties");

Properties props = new Properties();

props.load(in);

DBConnection conn = new DBConnection(props.getProperty("url"), props.getProperty("userid"), props.getProperty("password"));

CallableStatement stmt = conn.getConnection().prepareCall("{call add\_product(?, ?)}");

stmt.setString(1, "new product");

stmt.setBigDecimal(2, new BigDecimal(1900.50));

stmt.executeUpdate();

out.println("Stored procedure has been executed.<Br>");

stmt.close();

out.println("</body></html>");

conn.closeConnection();

} catch (ClassNotFoundException e) {

e.printStackTrace();

} catch (SQLException e) {

e.printStackTrace();

}

}

/\*\*

* @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

\*/

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws

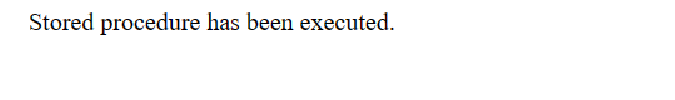
ServletException, IOException {

// TODO Auto-generated method stub

doGet(request, response);

}

}



JDBC Connections, Statements, and ResultSets HTML

<!DOCTYPE html>

<html>

<head>

<meta charset="ISO-8859-1">

<title>JDBC Statements and Resultsets</title> </head>

<body>

<a href="DemoJDBC">Product Info</a><br> </body>

</html>

Properties

url=jdbc:mysql://localhost:3306/ecommerce userid=root

password=Gokul@12

DBConnection

package com.ecommerce;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.SQLException;

public class DBConnection {

private Connection connection;

public DBConnection(String dbURL, String user, String pwd) throws ClassNotFoundException, SQLException{ Class.forName("com.mysql.jdbc.Driver");

this.connection = DriverManager.getConnection(dbURL, user, pwd); }

public Connection getConnection(){

return this.connection;

}

public void closeConnection() throws SQLException {

if (this.connection != null)

this.connection.close();

}

}

SERVLET

package com.ecommerce;

//import com.ecommerce.DBConnection; import java.io.IOException;

import java.io.InputStream;

import java.io.PrintWriter;

import java.math.BigDecimal;

import java.sql.CallableStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

import java.util.Properties;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet; import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest; import javax.servlet.http.HttpServletResponse; /\*\*

* Servlet implementation class DemoJDBC

\*/

@WebServlet("/DemoJDBC")

public class DemoJDBC extends HttpServlet { private static final long serialVersionUID = 1L; /\*\*

* @see HttpServlet#HttpServlet()

\*/

public DemoJDBC() {

super();

// TODO Auto-generated constructor stub

}

/\*\*

* @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)

\*/

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws

ServletException, IOException {

// TODO Auto-generated method stub

try {

PrintWriter out = response.getWriter();

out.println("<html><body>");

InputStream in = getServletContext().getResourceAsStream("/WEB- INF/config.properties");

Properties props = new Properties();

props.load(in);

DBConnection conn = new DBConnection(props.getProperty("url"), props.getProperty("userid"), props.getProperty("password"));

Statement stmt = conn.getConnection().createStatement(ResultSet.TYPE\_SCROLL\_INSENSITIVE, ResultSet.CONCUR\_READ\_ONLY);

stmt.executeUpdate("insert into eproduct (name, price, date\_added) values ('New Product',

17800.00, now())");

ResultSet rst = stmt.executeQuery("select \* from eproduct");

while (rst.next()) {

out.println(rst.getInt("ID") + ", " + rst.getString("name") + "<Br>");

}

stmt.close();

out.println("</body></html>");

conn.closeConnection();

} catch (ClassNotFoundException e) {

e.printStackTrace();

} catch (SQLException e) {

e.printStackTrace();

}

}

/\*\*

* @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

\*/

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws

ServletException, IOException {

// TODO Auto-generated method stub

doGet(request, response);

}

}



Set Up JDBC Environment HTML

<!DOCTYPE html>

<html>

<head>

<meta charset="ISO-8859-1">

<title>JDBC Setup</title>

</head>

<body>

<a href="DemoJDBC">Initialize JDBC</a><br> </body>

</html>

Properties

url=jdbc:mysql://localhost:3306/ecommerce userid=root

password=Gokul@12

DBConnection.java

package com.ecommerce;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.SQLException;

public class DBConnection {

private Connection connection;

public DBConnection(String dbURL, String user, String pwd) throws ClassNotFoundException, SQLException{ Class.forName("com.mysql.jdbc.Driver");

this.connection = DriverManager.getConnection(dbURL, user, pwd); }

public Connection getConnection(){

return this.connection;

}

public void closeConnection() throws SQLException {

if (this.connection != null)

this.connection.close();

}

}

SERVLET( DemoJDBC.java )

package com.ecommerce;

import java.io.IOException;

import java.io.InputStream;

import java.io.PrintWriter;

import java.math.BigDecimal;

import java.sql.CallableStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

import java.util.Properties;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet; import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest; import javax.servlet.http.HttpServletResponse; /\*\*

* Servlet implementation class DemoJDBC

\*/

@WebServlet("/DemoJDBC")

public class DemoJDBC extends HttpServlet { private static final long serialVersionUID = 1L; /\*\*

* @see HttpServlet#HttpServlet()

\*/

public DemoJDBC() {

super();

// TODO Auto-generated constructor stub

}

/\*\*

* @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)

\*/

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws

ServletException, IOException {

// TODO Auto-generated method stub

try {

PrintWriter out = response.getWriter();

out.println("<html><body>");

InputStream in = getServletContext().getResourceAsStream("/WEB- INF/config.properties");

Properties props = new Properties();

props.load(in);

DBConnection conn = new DBConnection(props.getProperty("url"), props.getProperty("userid"), props.getProperty("password"));

out.println("DB Connection initialized.<br>");

conn.closeConnection();

out.println("DB Connection closed.<br>");

out.println("</body></html>");

conn.closeConnection();

} catch (ClassNotFoundException e) {

e.printStackTrace();

} catch (SQLException e) {

e.printStackTrace();

}

}

/\*\*

* @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

\*/

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws

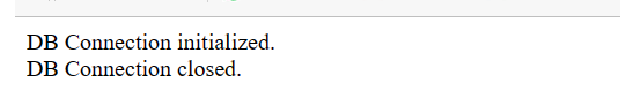
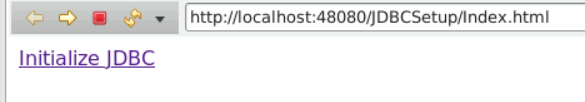
ServletException, IOException {

// TODO Auto-generated method stub

doGet(request, response);

}

}



Demonstrate a project to set up JDBC environment HTML

<!DOCTYPE html>

<html>

<head>

<meta charset=*"ISO-8859-1"*> <title>Insert title here</title> </head>

<body>

<h1>hi i am gokul

</h1> </body> </html>

