Phase – 2 Practice Project: Assisted Practice

15. Demonstrate how to create, select, and drop a database in JDBC.

• Code

index.html

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>JDBC Datbase Operations</title>
</head>
<body>
<a href="dboperations">Database Operations</a><br>
</body>
</html>

DBConnection.java

package com.ecommerce;

import java.sql.Connection;
```

```
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();
    }
```

config.properties

```
url=jdbc:mysql://localhost:3306/ecommerce
userid=root
password=master
```

DBOperations.java

```
package com;
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;
import com.DBConnection;
/**
* Servlet implementation class DBOperations
public class DBOperations extends HttpServlet {
private static final long serialVersionUID = 1L;
/**
* @see HttpServlet#HttpServlet()
public DBOperations() {
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();
                        stmt.executeUpdate("create database
mydatabase");
                        out.println("Created database: mydatabase<br>");
                        stmt.executeUpdate("use mydatabase");
                        out.println("Selected database:
mydatabase<br>");
                        stmt.executeUpdate("drop database mydatabase");
                        stmt.close();
                        out.println("Dropped database: mydatabase<br>");
```

```
conn.closeConnection();
                        out.println("</body></html>");
                        conn.closeConnection();
                } catch (ClassNotFoundException e) {
                        e.printStackTrace();
                } catch (SQLException e) {
                        e.printStackTrace();
        }
         * @see HttpServlet#doPost(HttpServletReguest request,
HttpServletResponse response)
        protected void doPost(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
                // TODO Auto-generated method stub
                doGet(request, response);
        }
}
web.xml
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"</pre>
xmlns="https://jakarta.ee/xml/ns/jakartaee"
xsi:schemaLocation="https://jakarta.ee/xml/ns/jakartaee
https://jakarta.ee/xml/ns/jakartaee/web-app 6 0.xsd" id="WebApp ID"
version="6.0">
  <display-name>JDBCSetup</display-name>
  <welcome-file-list>
    <welcome-file>index.html</welcome-file>
    <welcome-file>index.jsp</welcome-file>
    <welcome-file>index.htm</welcome-file>
    <welcome-file>default.html</welcome-file>
    <welcome-file>default.jsp</welcome-file>
    <welcome-file>default.htm</welcome-file>
  </welcome-file-list>
  <servlet>
    <description></description>
    <display-name>DBOperations</display-name>
   <servlet-name>DBOperations</servlet-name>
    <servlet-class>DBOperations</servlet-class>
  </servlet>
  <servlet-mapping>
   <servlet-name>DBOperations</servlet-name>
    <url-pattern>/DBOperations</url-pattern>
  </servlet-mapping>
</web-app>
```

Output:

