Stored Procedures with Exceptions

CREATE PROCEDURE add product(IN pname varchar(100), IN

//Creating a stored procedure add product in MySQL

DELIMITER \$\$

pprice decimal(10,2))

```
INSERT INTO eproduct (name, price) VALUES (pname, pprice)
$$
DELIMITER;
//Creating an HTML page index.html
<html>
<head>
<meta charset="UTF-8">
<title>JDBC Stored Procedures</title>
</head>
<body>
<a href="list">Product Info</a><br>
</body>
</html>
//Creating a DBConnection class to initiate a JDBC connection in
code
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();
     }
}
     public Connection getConnection(){
          return this.connection;
     }
     public void closeConnection() throws SQLException {
          if (this.connection != null)
               this.connection.close();
}
```

```
//Creating a config properties file to store JDBC credentials
url=jdbc:mysql://localhost:3306/ecommerce
userid=root
password=SqlPr@9306
//Creating a ProductDetails servlet
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.ecommerce.DBConnection;
public class ProductDetails extends HttpServlet {
     private static final long serialVersionUID = 1L;
public ProductDetails() {
     super();
}
```

protected void doGet(HttpServletRequest request,

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

```
// TODO Auto-generated method stub
          doGet(request, response);
     }
}
//Configuring web.xml
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"</pre>
xmlns="http://xmlns.jcp.org/xml/ns/javaee"
xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
http://xmlns.jcp.org/xml/ns/javaee/web-app 4 0.xsd"
id="WebApp ID" version="4.0">
 <display-name>JDBC Stored Procedures</display-name>
 <welcome-file-list>
  <welcome-file>index.html</welcome-file>
  <welcome-file>index.htm</welcome-file>
  <welcome-file>index.jsp</welcome-file>
  <welcome-file>default.html</welcome-file>
  <welcome-file>default.htm</welcome-file>
  <welcome-file>default.jsp</welcome-file>
 </welcome-file-list>
 <servlet>
  <servlet-name>ProductDetails</servlet-name>
  <servlet-class>ProductDetails</servlet-class>
 </servlet>
 <servlet-mapping>
  <servlet-name>ProductDetails</servlet-name>
  <url-pattern>/list</url-pattern>
 </servlet-mapping>
</web-app>
```