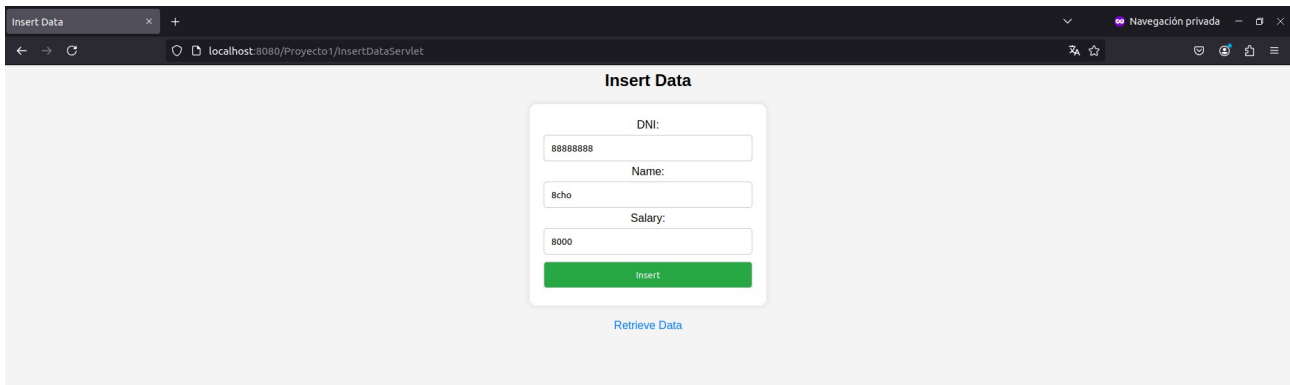


JDBC6

Insert:



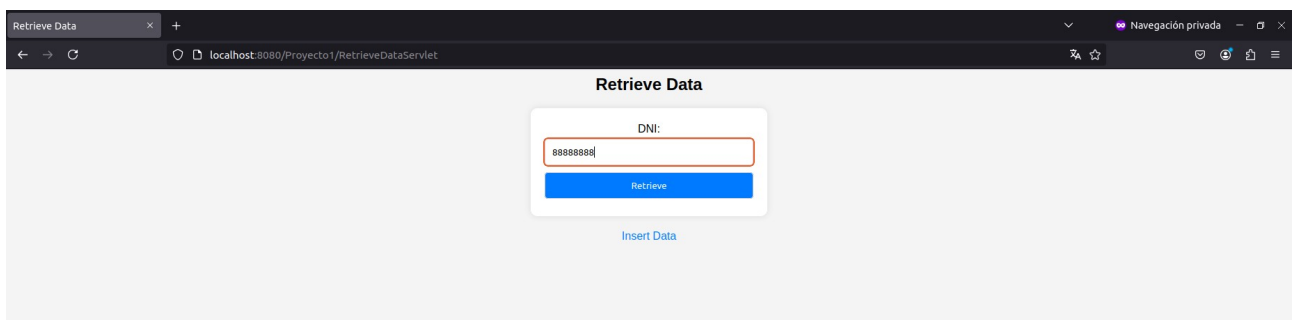
The screenshot shows a web browser window with the title 'Insert Data'. The address bar shows 'localhost:8080/Proyecto1/InsertDataServlet'. The form is titled 'Insert Data' and contains three input fields: 'DNI:' with the value '88888888', 'Name:' with the value '8cho', and 'Salary:' with the value '8000'. Below the fields is a green 'Insert' button. At the bottom of the form, there is a blue link labeled 'Retrieve Data'.

Insert result:



The screenshot shows a web browser window with the title 'localhost:8080/Proyecto1/'. The address bar shows 'localhost:8080/Proyecto1/InsertDataServlet'. The message 'Data Inserted successfully!' is displayed. Below the message are two blue links: 'Insert Another' and 'Retrieve Data'.

Retrieve:



The screenshot shows a web browser window with the title 'Retrieve Data'. The address bar shows 'localhost:8080/Proyecto1/RetrieveDataServlet'. The form is titled 'Retrieve Data' and contains one input field: 'DNI:' with the value '88888888'. Below the field is a blue 'Retrieve' button. At the bottom of the form, there is a blue link labeled 'Insert Data'.

Retrieve result:



Insert:

```
import java.io.*;
```

```
import javax.servlet.*;
```

```
import javax.servlet.http.*;
```

```
import java.sql.*;
```

```
public class InsertDataServlet extends HttpServlet {  
    protected void doGet(HttpServletRequest request, HttpServletResponse response)  
        throws ServletException, IOException {  
        response.setContentType("text/html");  
        PrintWriter out = response.getWriter();  
  
        out.println("<html><head><title>Insert Data</title>");  
        out.println("<style>");  
        out.println("body { font-family: Arial, sans-serif; background-color: #f4f4f4; text-align: center;  
});  
        out.println("form { background: white; padding: 20px; border-radius: 10px; width: 300px;  
margin: auto; box-shadow: 0px 0px 10px rgba(0,0,0,0.1); }");  
        out.println("input { width: 100%; padding: 10px; margin: 5px 0; border: 1px solid #ccc;  
border-radius: 5px; }");  
        out.println("input[type='submit'] { background: #28a745; color: white; cursor: pointer; }");  
        out.println("a { text-decoration: none; color: #007bff; }");  
        out.println("</style>");  
        out.println("</head><body>");  
        out.println("<h2>Insert Data</h2>");
```

```
out.println("<form method='post'>");
out.println("DNI: <input type='text' name='dni' required><br>");
out.println("Name: <input type='text' name='name' required><br>");
out.println("Salary: <input type='text' name='salary' required><br>");
out.println("<input type='submit' value='Insert'>");
out.println("</form>");
out.println("<br><a href='RetrieveDataServlet'>Retrieve Data</a>");
out.println("</body></html>");
}
```

```
protected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
    response.setContentType("text/html");
    PrintWriter out = response.getWriter();

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

    try {
        Connection conn = obtenerConexion();
        String query = "INSERT INTO empleados (dni, nombre, sueldo) VALUES (?, ?, ?)";
        PreparedStatement stmt = conn.prepareStatement(query);
        stmt.setString(1, dni);
        stmt.setString(2, name);
        stmt.setString(3, salary);
        stmt.executeUpdate();
        conn.close();
        out.println("<p>Data inserted successfully!</p>");
    }
```

```
    } catch (SQLException e) {
        out.println("<p>Error inserting data: " + e.getMessage() + "</p>");
    }

    out.println("<a href='InsertDataServlet'>Insert Another</a> | <a
href='RetrieveDataServlet'>Retrieve Data</a>");
}

private Connection obtenerConexion() throws SQLException {
    String url = "jdbc:mysql://localhost/bdprueba?allowPublicKeyRetrieval=true&useSSL=false";
    String user = "alumno";
    String password = "mipassword";
    return DriverManager.getConnection(url, user, password);
}
}
```

Retrieve:

```
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
import java.sql.*;

public class RetrieveDataServlet extends HttpServlet {
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();

        out.println("<html><head><title>Retrieve Data</title>");
        out.println("<style>");
```

```
    out.println("body { font-family: Arial, sans-serif; background-color: #f4f4f4; text-align: center;
}");

    out.println("form { background: white; padding: 20px; border-radius: 10px; width: 300px;
margin: auto; box-shadow: 0px 0px 10px rgba(0,0,0,0.1); }");

    out.println("input { width: 100%; padding: 10px; margin: 5px 0; border: 1px solid #ccc;
border-radius: 5px; }");

    out.println("input[type='submit'] { background: #007bff; color: white; cursor: pointer; }");
    out.println("a { text-decoration: none; color: #007bff; }");
    out.println("</style>");
    out.println("</head><body>");
    out.println("<h2>Retrieve Data</h2>");
    out.println("<form method='post'>");
    out.println("DNI: <input type='text' name='dni' required><br>");
    out.println("<input type='submit' value='Retrieve'>");
    out.println("</form>");
    out.println("<br><a href='InsertDataServlet'>Insert Data</a>");
    out.println("</body></html>");
}
```

```
protected void doPost(HttpServletRequest request, HttpServletResponse response)
```

```
throws ServletException, IOException {
```

```
    response.setContentType("text/html");
```

```
    PrintWriter out = response.getWriter();
```

```
    String dni = request.getParameter("dni");
```

```
    try {
```

```
        Connection conn = obtenerConexion();
```

```
        String query = "SELECT nombre FROM empleados WHERE dni = ?";
```

```
        PreparedStatement stmt = conn.prepareStatement(query);
```

```
stmt.setString(1, dni);

ResultSet rs = stmt.executeQuery();

if (rs.next()) {
    out.println("<p>Name: " + rs.getString("nombre") + "</p>");
} else {
    out.println("<p>No data found for DNI: " + dni + "</p>");
}

conn.close();
} catch (SQLException e) {
    out.println("<p>Error retrieving data: " + e.getMessage() + "</p>");
}

out.println("<a href='RetrieveDataServlet'>Retrieve Another</a> | <a  
href='InsertDataServlet'>Insert Data</a>");
}

private Connection obtenerConexion() throws SQLException {
    String url = "jdbc:mysql://localhost/bdprueba?allowPublicKeyRetrieval=true&useSSL=false";
    String user = "alumno";
    String password = "mipassword";
    return DriverManager.getConnection(url, user, password);
}
}
```