```
 1  import java.io.*;
 2  import java.sql.*;
 3  import javax.servlet.*;
 4  import javax.servlet.http.*;
 5
 6  public class OmatTiedot extends HttpServlet {
 7
 8      final String dbDriver="org.postgresql.Driver";
 9      final String dbServer ="jdbc:postgresql://localhost:10388/tsoha";
10      final String dbUser= "avtanska";          // replace with your db user account
11      final String dbPassword ="postgres"; // replace with your password
12
13
14      public void service(HttpServletRequest req, HttpServletResponse res)
15        throws ServletException, IOException {
16        ServletOutputStream out;
17        res.setContentType("text/html");
18        out= res.getOutputStream();
19
20        String submit = req.getParameter("submit");
21        HttpSession session = req.getSession(false);
22        String sessionTunnus = (String)session.getValue("sessionTunnus");
23
24
25        /*
26         * Jos sivulle tullaan 'Omat tiedot'-linkin kautta
27         */
28
29        if (submit == null) {
30
31          out.println("<html><head><title></title>" +
32                      "<link rel='stylesheet' type='text/css' href='http://" +
33                      "db.cs.helsinki.fi/u/avtanska/tsoha/perus.css' /><body>" +
34                      "<form method='post' action='http://db.cs.helsinki.fi/" +
35                      "s/avtanska/OmatTiedot'>" +
36                      "<table>");
37
38          out.println("<h3>Henkilötietojen ylläpito:</h3>");
39          out.println("<tr><td align='right'>Tunnus:</td><td><b>" +
40                      sessionTunnus + "</b></td></tr>");
41
42
43          Connection con=null;
44          con= createDbConnection(dbDriver,dbServer,dbUser,dbPassword,out);
45          if (con==null) {
46             out.println("</body></html>");
47             return;
48          }
49
50          Statement stmt = null;
51          ResultSet rs = null;
52          try {
53            stmt = con.createStatement();
54
55            String selectHenkilo =
56                "SELECT * FROM henkilö WHERE tunnus='" + sessionTunnus  + "'";
57
58            rs = stmt.executeQuery(selectHenkilo);
59
60            while(rs.next()) {
61                out.println("<tr><td align='right'>Etunimi:</td><td>" +
62                            "<input name='etunimi' type='text' value='" +
63                            rs.getString("etunimi") + "' /></td></tr>");
64
65                out.println("<tr><td align='right'>Sukunimi:</td><td>" +
66                            "<input name='sukunimi' type='text' value='" +
67                            rs.getString("sukunimi") + "' /></td></tr>");
68
69                out.println("<tr><td align='right'>Sähköposti:</td><td>" +
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70                              "<input name='sposti' type='text' value='" +
71                              rs.getString("sposti") + "' /></td></tr>");
72
73                 out.println("<tr><td align='right'>Puhelin:</td><td>" +
74                              "<input name='puh' type='text' value='" +
75                              rs.getString("puh") + "' /></td></tr>");
76           }
77
78        } catch (SQLException ee) {
79            out.println("Tietokantavirhe "+ee.getMessage());
80        } finally {
81            try {
82                if (rs!=null) rs.close();
83                if (stmt!=null) stmt.close();
84                con.close();
85            } catch(SQLException e) {
86                out.println("An SQL Exception was thrown.");
87            }
88        }
89
90        out.println("<tr><td> </td></tr><tr>" +
91                    "<td colspan='2' align='center'>" +
92                    "<input name='submit' type='submit' " +
93                    "value='Tallenna muutokset' /></td></tr>" +
94                    "</table></form></body></html>");
95
96
97     } // if submit == null
98
99
100       /*
101        * Jos on painettu 'Tallenna tiedot'-nappia
102        */
103
104       else {
105         String etunimi = req.getParameter("etunimi");
106         String sukunimi = req.getParameter("sukunimi");
107         String sposti = req.getParameter("sposti");
108         String puh = req.getParameter("puh");
109
110         out.println("<h3>Tiedot päivitetty</h3>");
111
112         Connection con = null;
113         con= createDbConnection(dbDriver,dbServer,dbUser,dbPassword,out);
114
115         if (con==null) {
116            out.println("</body></html>");
117            return;
118         }
119
120         Statement stmt = null;
121         ResultSet rs = null;
122
123
124         /*
125          * Päivitetään tiedot tietokantaan
126          */
127
128         String updateHenkilo = "UPDATE henkilö SET etunimi='" + etunimi +
129            "', sukunimi='" + sukunimi + "', sposti='" + sposti +
130            "', puh='" + puh + "' WHERE tunnus='" + sessionTunnus + "'";
131
132         try {
133            stmt = con.createStatement();
134            int count = stmt.executeUpdate(updateHenkilo);
135         } catch (SQLException ee) {
136            out.println("Tietokantavirhe "+ee.getMessage());
137         } finally {
138            try {
```

```
139                    if (rs!=null) rs.close();
140                    if (stmt!=null) stmt.close();
141                    con.close();
142                } catch(SQLException e) {
143                    out.println("An SQL Exception was thrown.");
144                }
145            }
146
147        out.println("" +
148            "<html><head><title>l</title><link rel='stylesheet' type='text/css'" +
149            "href='http://db.cs.helsinki.fi/u/avtanska/tsoha/perus.css' /></head>" +
150            "<body>" +
151            "<p><b>Tietosi:</b></p><p>Tunnus: <b>" + sessionTunnus + "</b></p>" +
152            "<p>Sukunimi: <b>" + sukunimi + "</b></p><p>Etunimi: <b>" + etunimi +
153            "</b></p><p>Sähköposti: <b>" + sposti + "</b></p>" +
154            "<p>Puhelin: <b>" + puh + "</b></p></body></html>");
155        }
156
157    }
158
159
160    private Connection createDbConnection(
161        String dbDriver, String dbServer, String dbUser, String dbPassword,
162        ServletOutputStream out) throws IOException {
163
164     // establish a database connection
165        try{
166            Class.forName(dbDriver);                    // load driver
167        } catch (ClassNotFoundException e) {
168            out.println("Couldn't find driver "+dbDriver);
169            return null;
170        }
171        Connection con=null;
172        try {
173            con = DriverManager.getConnection(dbServer,dbUser,dbPassword);
174        } catch (SQLException se) {
175            out.println("Couldn\'t get connection to "+dbServer+
176                        " for "+ dbUser+"<br>");
177            out.println(se.getMessage());
178        }
179        return con;
180    }
181
182 }
```