Database

```
<web-app>
        <welcome-file-list>
               <welcome-file>Login.jsp</welcome-file>
       </welcome-file-list>
       <servlet>
       <servlet-name>SignUpServlet/servlet-name>
       <servlet-class>SignUpServlet</servlet-class>
       </servlet>
       <servlet-mapping>
        <servlet-name>SignUpServlet</servlet-name>
       <url><!url-pattern>/SignUpServlet</url-pattern></url-pattern></url-pattern>
       </servlet-mapping>
       <servlet>
        <servlet-name>LoginServlet</servlet-name>
        <servlet-class>LoginServlet</servlet-class>
       </servlet>
       <servlet-mapping>
       <servlet-name>LoginServlet</servlet-name>
       <url>pattern>/LoginServlet</url-pattern></url
       </servlet-mapping>
</web-app>
Login.jsp
<!DOCTYPE html>
<html>
<head>
<title>login</title>
</head>
<body>
       <form action="LoginServlet" method="post">
       <center>
       <h1>Login</h1>
       <h2>User Name :: </h2></r>
       <input type="text" name="userName">
       <h2>Password :: </h2>
       <input type="password" name="passW">
       </center>
       <center><input type="submit" value="Login"></center>
       <br/>
       <center>
       If you are not authorized user, please <a href="signup.jsp"><h2>Sign up</h2></a>
</form>
</body>
</html>
signup.jsp
<!DOCTYPE html>
<html>
<head>
<title>Sign Up</title>
</head>
```

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```
<body>
       <form action="SignUpServlet" method="post">
       User Name :: <input type="text" name="username">
               Password :: <input type="text" name="password">
               Retype Password :: <input type="text" name="repass">
               eMail :: <input type="text" name="email">
               Address :: <input type="text" name="address">
       <br/>
       <center><input type="submit" value="Sign Up"></center>
       </form>
</body>
</html>
import java.io.*;
import java.sql.*;
import java.util. Vector;
import javax.servlet.*;
import javax.servlet.http.*;
import javax.swing.*;
public class LoginServlet extends HttpServlet
       Connection con;
       public void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException
               String name=request.getParameter("userName");
               String pass=request.getParameter("passW");
               try{
                               Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
                               con=DriverManager.getConnection("jdbc:odbc:userDB","","");
                               System.out.println("success connection for check");
                catch(ClassNotFoundException e2) {
                                                   e2.printStackTrace();
                catch(SQLException e1)
                                               { e1.printStackTrace();
                System.out.println("success connection for check");
               boolean flag=false;
               String sql = "select username from mytable where username=? and password=?";
                       try {
                              PreparedStatement stmt = con.prepareStatement(sql);
                               stmt.setString(1,name);
                               stmt.setString(2,pass):
                              ResultSet rs = stmt.executeQuery();
                              while(rs.next())
                                      flag=true;
                         rs.close();
                         if(flag==true)
                               RequestDispatcher rd=this.getServletContext().getRequestDispatcher("/loginSuccessful.jsp");
                                      rd.forward(request, response);
                         else
```

Page 2

```
response.sendRedirect("login.jsp");
                            con.close();
                          } catch (SQLException e) {
                                  e.printStackTrace();
public void doPost(HttpServletRequest request,HttpServletResponse response)throws ServletException, IOException
                 doGet(request,response);
import java.io.*;
import java.sql.*;
import javax.servlet.*;
import javax.servlet.http.*;
import java.util.*;
public class SignUpServlet extends HttpServlet
        public void doGet(HttpServletRequest request,HttpServletResponse response)throws ServletException, IOException
                 boolean isMissingValue = false;
                 String userName =request.getParameter("username");
                 if (userName.equals("") || userName.equals("Missing user name"))
                          userName = new String("Missing user name");
                         isMissingValue = true;
                 String passWord =request.getParameter("password");
                 if (passWord.equals("")|| passWord.equals("Missing password"))
                         passWord = new String("Missing password");
                          isMissingValue = true;
                 String repassW =request.getParameter("repass");
                 if (passWord.equals("")|| passWord.equals("Missing retype password"))
                          passWord = new String("Missing retype password");
                         isMissingValue = true;
                 String eMail =request.getParameter("email");
                 if (passWord.equals("")|| passWord.equals("Missing_email"))
                         passWord = new String("Missing email");
                         isMissingValue = true;
                 String add =request.getParameter("address");
                 if (passWord.equals("")|| passWord.equals("Missing address"))
                          passWord = new String("Missing_address");
                          isMissingValue = true;
                         if (isMissingValue) {
                                  response.sendRedirect("signup.jsp");
                         else if(repassW.equals(passWord))
                                  Connection con;
                                  Statement stm;
                                  String sql=new String();
                                  try{
```

Sage 3

```
Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
                          String url = "jdbc:odbc:userDB";
                         con = DriverManager.getConnection(url," "," ");
                          stm= con.createStatement();
                         sql="INSERT INTO mytable VALUES
                               ("'+userName+"',"'+passWord+"',"'+eMail+"',"'+add+"')";
                          System.out.println(sql);
                          stm.executeUpdate(sql);
                          System.out.println("Insertion is completed.");
                          }catch(ClassNotFoundException ec)
                          { System.out.println(ec.getMessage());
                          catch(SQLException es)
                          { System.out.println(es.getMessage());
                          response.sendRedirect("login.jsp");
                 else
                          response.sendRedirect("login.jsp");
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
public void doPost(HttpServletRequest request,HttpServletResponse response)throws ServletException, IOException
        doGet(request,response);
```

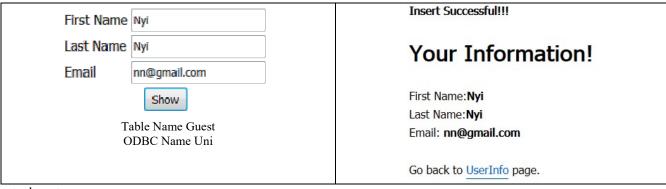
Login User Name :: Password :: Retype Password :: eMail :: Sign Up If you are not authorized user, please

EXERCISES Ex1. Enter your FirstName, LastName and Email Enter your FirstName, LastName and Email FirstName LastName FirstName LastName Email Email Submit Submit **Guest List** First Name Last Name **Email** mm@gmail.com <web-<u>app</u>> <welcome-file-list> <welcome-file>welcome.jsp</welcome-file> </welcome-file-list> </web-app> welcome.jsp <!DOCTYPE > <html> <head> <title>Insert title here</title> </head>

```
<body>
<form action ="/DBEx/Show3.jsp" method = "get">
Enter your FirstName, LastName and Email
FirstName
<input type = "text" name = "fname" />
LastName
<input type = "text" name = "lname" />
Email
<input type = "text" name = "email" />
<input type = "submit" value = "Submit" /></form></body></html>
Show3.jsp
<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<body>
<%String f=request.getParameter("fname");
String l=request.getParameter("lname");
String e=request.getParameter("email");
if(l!=""&&f!=""&&e!="")
%>
<h1>Guest List</h1>
First NameLast NameEmail
<%=f%>
<\td><\fd>\(d)<\/td>
<%=e%>
<% }
else
%>
<font color='red'>Fill all Fields</font>
```

<%@ include file="welcome.jsp" %>

<% }%></body></html>



```
<web-app>
       <welcome-file-list>
               <welcome-file>userinfo.jsp</welcome-file>
       </welcome-file-list>
</web-app>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
  pageEncoding="ISO-8859-1"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Insert User Info</title>
</head>
<body>
<%
      String fn ="";
               fn =request.getParameter("txtFName");
    String ln = "";
    ln = request.getParameter("txtLName");
    String em = "";
    em = request.getParameter("txtEmail");%>
<form action="UserShow.jsp" method="get">
First Name
<input type="text" name="txtFName" value="<%= fn %>">
Last Name
<input type="text" name="txtLName" value="<%= ln %>">
Email
<input type="text" name="txtEmail" value="<%= em %>">
<center><input type="submit" value="Show"></center>
</form>
</body>
</html>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
  pageEncoding="ISO-8859-1"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
<%@page import="java.sql. *"%>
<html>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Insert title here</title>
</head>
```

```
<body>
<%
        String fn = request.getParameter("txtFName");
          String ln = request.getParameter("txtLName");
          String em = request.getParameter("txtEmail");
          if (fn == null \parallel ln == null \parallel em == null
\| \text{ fn.length}() == 0 \| \text{ ln.length}() == 0 \| \text{ em.length}() == 0) 
             response.sendRedirect("UserInfo.jsp");
           }else {
if(insert(fn,ln,em)){%>
<b>Insert Successful!!!</b>
<h1>Your Information!</h1>
                First Name: <b><% fn% ></b><br
                Last Name:<b><%= ln%></b><br
                Email: <b><%= em%></b><br>>
                Go back to <a href="UserInfo.jsp">UserInfo</a> page.
<% }else{%>
<b>Something wrong in database!!!</b>
<% }
  %>
</body>
<%!
boolean insert(String fn, String ln, String em) {
          Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
        } catch (Exception e) {
        try {
          Connection con = DriverManager.getConnection("jdbc:odbc:Uni", "", "");
          String s = "insert into Guest values(?,?,?)";
           PreparedStatement smt = con.prepareStatement(s);
          smt.setString(1, fn);
          smt.setString(2, ln);
          smt.setString(3, em);
          smt.executeUpdate();
          return true;
        } catch (Exception e) {
        return false;
  %>
</html>
Ex3
                                                                                       Guest Book Insert, Update, Delete, Select
              Guest Book Insert, Update, Delete, Select
                                                                                               Insert | Update | Delete | SelectAl | Select
                     Insert | Update | Delete | SelectAl | Select
                                                                                            Last Name
                                                                                             Email
                  Guest Book Insert, Update, Delete, Select
                                                                                          Guest Book Insert, Update, Delete, Select
                           Insert | Update | Delete | SelectAll | Select
                                                                                                  Insert | Update | Delete | SelectAl | Select
                        Old Email
                       New Email
                                                                                        Guest Book Insert, Update, Delete, Select
              Guest Book Insert, Update, Delete, Select
                                                                                                Insert | Update | Delete | SelectAll | Select
                      Insert | Update | Delete | SelectAl | Select
                                                                                                          Guest Data
                                                                                   First Name
                                                                                                    LastName
                                                                                                                             Email
                       Enter Email
                                          search
                                                                              Zaw
                                                                                                                zaw1234@gmail.com
index.jsp
<html>
                   <center><%@include file="menu.jsp" %></center>
          </body>
```

</html>

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```
menu.jsp
<html>
<br/>
<br/>
Sody><h2> Guest Book Insert, Update, Delete, Select</h2>
<\!a\;href="insert.jsp">\!Insert<\!/a\!> \mid <\!a\;href="update.jsp">\!Update<\!/a\!> \mid <\!a\;href="delete.jsp">\!Delete\mid <\!a\;href="delete.jsp">\!Delete| <\!a\;href="delet
href="selectAll.jsp">SelectAll</a> |
<a href="select.jsp">Select</a>
</body>
</html>
insert.jsp
<html>
<body><center>
<%@include file="menu.jsp" %>
<form action="saveGuest.jsp">
                     First Name<input type="text" name="txtFName" size="50"><br>
                     Last Name
                                                                <input type="text" name="txtLName" size="50"><br>
                     Email <input type="text" name="txtEmail" size="50">
                                                                                                                                                                                                                          <br>
                                                                                      <input type="submit" value="insert">
                     </form>
                     </center>
                     </body>
</html>
saveGuest.jsp
<%@ page import="java.sql. *" %>
<html>
<body><center>
<%@include file="menu.jsp" %><br>
<%
try{
                                           String url=application.getInitParameter("url");
                                           String fname=request.getParameter("txtFName");
                                           String lname=request.getParameter("txtLName");
                                           String email=request.getParameter("txtEmail");
                                           Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
                                           Connection con=DriverManager.getConnection("jdbc:odbc:guestdb");
                      String sql="INSERT INTO Guest Values(?,?,?)";
                     PreparedStatement pstmt=con.prepareStatement(sql);
                                           pstmt.setString(1,fname);
                                           pstmt.setString(2,lname);
                                           pstmt.setString(3,email);
                     int r=pstmt.executeUpdate();
                     if(r>0)
                    out.println("Insert successful");
                    else out.println("Insertion fail");
                                           pstmt.close();
                                           con.close();
                      }catch(ClassNotFoundException e)
                                            .printStackTrace();
                      }catch(SQLException e)
                                            {.printStackTrace();
                                                                 %>
                                           </center>
                     </body>
</html>
```

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```
update.jsp
<html>
<br/>body><center>
        <%@include file="menu.jsp" %>
        <form action="updateGuest.jsp">
                Old Email
                                 <input type="text" name="o" size="50"><br>
                                 <input type="text" name="n" size="50"><br>
                New Email
<input type="submit" value="update">
                         </form>
                </center>
        </body>
</html>
updateGuest.jsp
<%@ page import="java.sql.*" %>
<html>
<body><center>
<%@include file="menu.jsp" %><br>
                         try{
                                          String url=application.getInitParameter("url");
                         String oldmail=request.getParameter("o");
                                          String newmail=request.getParameter("n");
                                          Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
                         Connection con=DriverManager.getConnection("jdbc:odbc:guestdb");
                                          String sql="update Guest set email=?";
                                          PreparedStatement pstmt=con.prepareStatement(sql);
                                          pstmt.setString(2,oldmail);
                                          pstmt.setString(1,newmail);
                                 int r=pstmt.executeUpdate();
                if(r>0)
        out.println("update successful");
        else out.println("update fail");
                                          pstmt.close();
                                          con.close();
                         }catch(ClassNotFoundException e)
                         e.printStackTrace();
                         catch(SQLException e)
                         e.printStackTrace();
                </center>
        </body>
</html>
delete.jsp
<html>
<body><center>
<%@include file="menu.jsp" %>
<form action="deleteGuest.jsp">
        Email<input type="text" name="e" size="50"><br>
<input type="submit" value="Delete">
</form></center></body>
</html>
```

```
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```

```
deleteGuest.jsp
<%@ page import="java.sql.*" %>
<html>
<body><center>
<%@include file="menu.jsp" %><br>
        try {
        Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
      String email=request.getParameter("e");
        Connection con=DriverManager.getConnection("jdbc:odbc:guestdb");
        String s = "delete from Guest where email=?";
        PreparedStatement psmt = con.prepareStatement(s);
        psmt.setString(1, email);
        int r=psmt.executeUpdate();
        if(r>0)
       out.println("delete successful");
       else out.println("Delete fail");
               smt.close();
               con.close();
      } catch (Exception e) {    e.printStackTrace();
     %>
       <center></body></html>
select.jsp
<html>
<body><center>
        <%@include file="menu.jsp" %><br><br>
        <form method=get action=Search.jsp>
       Enter Email<input type="text" name="e">
       <input type="submit" value="search">
       </form>
</center></body></html>
Search.jsp
<%@ page import="java.sql.*" %>
<html>
<body><center>
        <%@include file="menu.jsp" %><br>
<%
        String email=request.getParameter("e");
try{
        Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
        Connection con = DriverManager.getConnection("jdbc:odbc:guestdb", "", "");
        String s = "select * from Guest where email=?";
        PreparedStatement smt = con.prepareStatement(s);
        smt.setString(1, email);
        ResultSet rs=smt.executeQuery();
<caption> Student Data </caption>
  First NameLastNameEmail
       while(rs.next()) {
       %>
       <%=rs.getString(1)%>
               <%=rs.getString(2)%>
                       <%=rs.getString(3)%>
        <%
               rs.close();
               smt.close();
```

