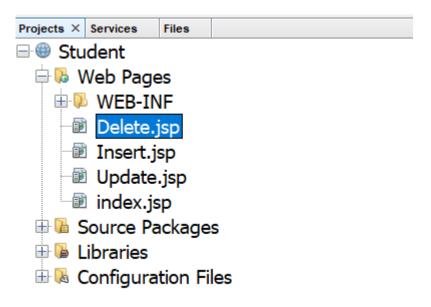
LAB 9: DATABASE & JSP

Lab Activities

Exercise 1: Creating a new Java web application

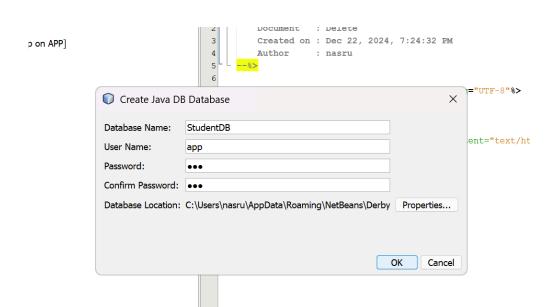
Task 1: Create a new project for Java web application



Exercise 2: Creating database and database connection

Task 1: Create a new database

- a) Go to services tab.
- b) Right click on Java DB and chose Create Database.... Fill in the database details here.



- c) Right click the StudentDB database, select connect.
- d) Create a table STUDENT in jdbc:derby://localhost:1527/StudentDB [public on PUBLIC] -> APP -> Tables -> right click -> Execute Command.
- e) Enter the following DDL (to create table):
- f) Click , to Run SQL

```
index.jsp × index.
```

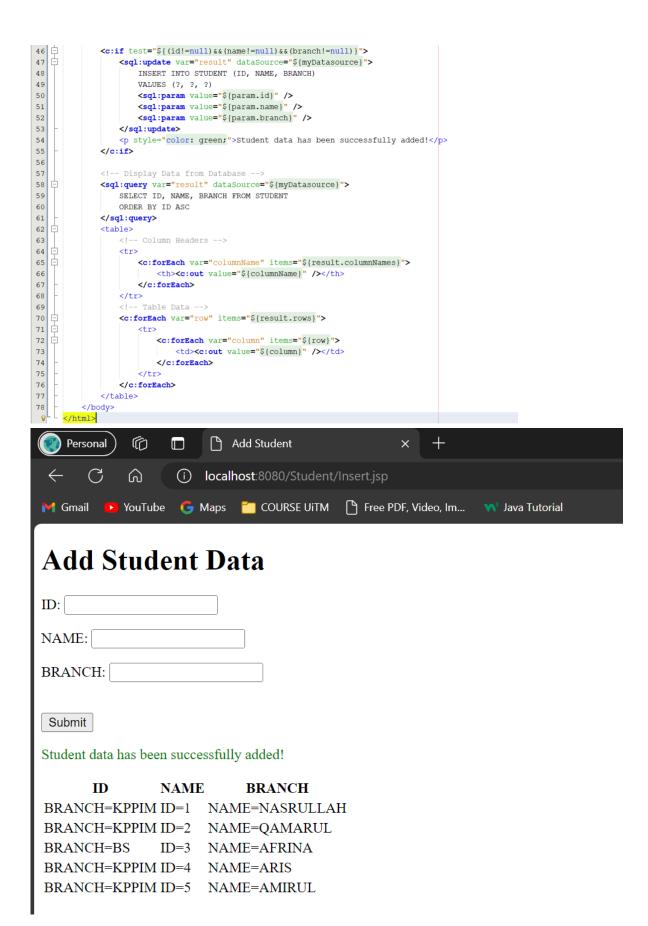
CSC 584 ENTERPRISE PROGRAMMING

Exercise 3: Creating Database Connection pool in application

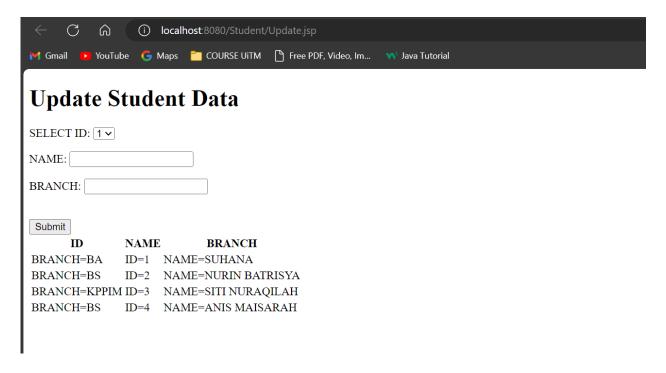
```
index.jsp × index
                                                                                             Security Web Services Messaging Environment
         General
                                                   Servlets
                                                                                                                                                                                                                                                                              XML
                                                                                                                                                                                                                                                                                                                       History
                      <?xml version="1.0" encoding="UTF-8"?>
                   <!DOCTYPE glassfish-web-app PUBLIC "-//GlassFish.org//DTD GlassFish Application Server 3.1 Ser</pre>
     3
            Glassfish-web-app error-url="">
                            <class-loader delegate="true"/>
      5
            阜
                          <jsp-config>
      6
            Ė
                                      <resource-ref>
     7
                                                  <res-ref-name>jdbc/myDatasource</res-ref-name>
                                                          <jndi-name>jdbc/myDatasource</jndi-name>
     8
    9
                                 </resource-ref>
            \Box
 10
                                     cproperty name="keepgenerated" value="true">
 11
                                       <description>Keep a copy of the generated servlet class' java code.</description>
 12
                                    </property>
 13
                           </jsp-config>
                      </glassfish-web-app>
 14
 15
```

Exercise 4: Creating Insert Page

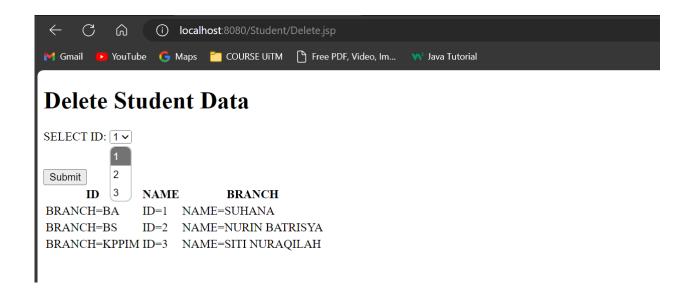
```
index.jsp × Insert.jsp × Inser
Source History | № 🔯 - 🖩 - 🔍 🕏 🖶 📮 | 🔗 😓 😉 😉 😉 🗉
  1 = <%--
  2
                     Document
                                              : insert
                      Created on : Dec 22, 2024, 7:24:11 PM
  3
                    Author : nasru
  5
             <%@page contentType="text/html" pageEncoding="UTF-8"%>
  8
             <%@taglib prefix="sql" uri="http://java.sun.com/jsp/jstl/sql" %>
             <%@taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core"%>
10
11 = <sql:setDataSource var="myDatasource"
12
                      driver="org.apache.derby.jdbc.ClientDriver"
                      url="jdbc:derby://localhost:1527/StudentDB" user="app"
13
                     password="app"/>
14
15
16
            <!DOCTYPE html>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
19
                              <title>Add Student</title>
20
21
                      </head>
22
                      <body>
                               <h1 style="font-weight: bold;">Add Student Data</h1>
23
24
                               <c:set var="id" value="${param.id}"/>
                               <c:set var="name" value="${param.name}"/>
                               <c:set var="branch" value="${param.branch}"/>
26
 28
                                          <form method="post" action="Insert.jsp">
    Q
                                                      >
                                                                 <label for="id">ID:</label>
  30
                                                                 <input type="text" id="id" name="id" required>
  31
                                                      32
 33
                                                      >
                                                                 <label for="name">NAME:</label>
 34
                                                                 <input type="text" id="name" name="name" required>
 35
  36
                                                     37
                                                     >
 38
                                                                 <label for="branch">BRANCH:</label>
                                                                 <input type="text" id="branch" name="branch" required>
  39
 40
                                                      <br>
 41
                                                      <input type="submit" value="Submit">
  42
  43
                                           </form>
```



Exercise 5: Creating Update Page



Exercise 6: Creating Delete Page



Exercise 7: Creating Navigation Between Each Page

a) Create simple menu in each page to link one page to another page (use hyperlink).

