eclipse-workspace - CS480Demo/src/main/java/user/dao/UserDao.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Project Explorer

- ClientProgram
- ConnectFour (in sp2021Project2_connect4)
- CS480Demo
  - Deployment Descriptor: CS480Demo
  - JAX-WS Web Services
  - JRE System Library [JavaSE-11]
  - src/main/java
    - user.dao
      - InitializeDao.java
      - UserDao.java
    - user.domain
    - user.service
    - user.web.servlet
      - findAll.java
      - InitServlet.java
      - UserServletLogin.java
      - UserServletRegister.java
  - Server Runtime [Apache Tomcat v9.0]
  - Maven Dependencies
  - Deployed Resources
  - build
  - src
    - main
      - java
      - webapp
        - jsps
          - user
            - initialize.jsp
            - login.jsp
            - regist.jsp
          - body.jsp
          - item.jsp
          - main.jsp
          - top.jsp
        - META-INF
        - Queryresult
          - list.jsp
        - readme
        - sql
        - WEB-INF
          - lib
          - web.xml
  - target
  - pom.xml
- fxmlExample (in fxmlExampleMaven)
- Homework6 (in hzeng20Homework6)

InitializeDao.java | UserDao.java | InitServlet.java | login.jsp | findAll.java | list.jsp | HTTP Status 500 – Internal Server Error

```
1  package user.dao;
2
3  import java.sql.Connection;
16
17
18
19 /**
20  * DDL functions performed in database
21  * @author changxin bai
22  *
23  */
24 public class UserDao {
25
26
27     /**
28      * get the search result with username
29      * @param username
30      * @return
31      * @throws ClassNotFoundException
32      * @throws IllegalAccessException
33      * @throws InstantiationException
34      */
35     public User findByUsernane(String username) throws ClassNotFoundException, InstantiationException, IllegalAccessException {
36         User user = new User();
37         try {
38
39             Class.forName("com.mysql.jdbc.Driver").newInstance();
40             Connection connect = DriverManager
41                     .getConnection("jdbc:mysql://127.0.0.1:3306/covid_19_development?"
42                             + "user=root&password=h123456");
43             String sql = "select * from tb_user where username=?";
44             PreparedStatement preparestatement = connect.prepareStatement(sql);
45             preparestatement.setString(1,username);
46             ResultSet resultSet = preparestatement.executeQuery();
47             //ResultSet resultSet  = preparestatement.executeUpdate();
48             while(resultSet.next()){
49                 String user_name = resultSet.getString("username");
50                 if(user_name.equals(username)){
51                     user.setUsernane(resultSet.getString("username"));
52                     user.setPassword(resultSet.getString("password"));
53                     user.setEmail(resultSet.getString("email"));
```

Markers | Properties | Servers | Data Source Explorer | Snippets | Console

Tomcat v9.0 Server at localhost [Apache Tomcat] C:\Program Files\Java\jdk-11.0.8\bin\javaw.exe (2021年7月17日下午9:55:42)

```
Caused by: java.sql.SQLException: Referencing column 'hospital_id' and referenced column 'ID' in foreign key constraint 'covid_results_ibfk_1' are incompatible.
        at com.mysql.jdbc.SQLError.createSQLException(SQLError.java:965)
        at com.mysql.jdbc.MysqlIO.checkErrorPacket(MysqlIO.java:3933)
        at com.mysql.jdbc.MysqlIO.checkErrorPacket(MysqlIO.java:3869)
        at com.mysql.jdbc.MysqlIO.sendCommand(MysqlIO.java:2524)
        at com.mysql.jdbc.MysqlIO.sqlQueryDirect(MysqlIO.java:2675)
        at com.mysql.jdbc.ConnectionImpl.execSQL(ConnectionImpl.java:2465)
        at com.mysql.jdbc.ConnectionImpl.execSQL(ConnectionImpl.java:2439)
        at com.mysql.jdbc.StatementImpl.executeInternal(StatementImpl.java:829)
        at com.mysql.jdbc.StatementImpl.execute(StatementImpl.java:729)
        at user.dao.InitializeDao.initDB(InitializeDao.java:49)
        ... 25 more
```

Writable | Smart Insert | 41 : 87 [20]

eclipse-workspace - CS480Demo/src/main/java/user/dao/UserDao.java - Eclipse IDE

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  - Maven Dependencies
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  - build
  - src
    - main
      - java
      - webapp
        - jsps
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InitializeDao.java | UserDao.java | InitServlet.java | login.jsp | findAll.java | list.jsp | HTTP Status 500 – Internal Server Error

```
71      * @throws ClassNotFoundException
72      * @throws IllegalAccessException
73      * @throws InstantiationException
74      */
75     public void add(User user) throws ClassNotFoundException, InstantiationException, IllegalAccessException {
76         try {
77             Class.forName("com.mysql.jdbc.Driver").newInstance();
78             Connection connect = DriverManager
79                     .getConnection("jdbc:mysql://127.0.0.1:3306/covid_19_development?"
80                             + "user=root&password=h123456");
81
82
83             String sql = "insert into tb_user values(?,?,?)";
84             PreparedStatement preparestatement = connect.prepareStatement(sql);
85             preparestatement.setString(1,user.getUsernane());
86             preparestatement.setString(2,user.getPassword());
87             preparestatement.setString(3,user.getEmail());
88             preparestatement.executeUpdate();
89         } catch(SQLException e) {
90             throw new RuntimeException(e);
91         }
92     }
93
94
95     public List<Object> findall() throws InstantiationException, IllegalAccessException, ClassNotFoundException{
96         List<Object> list = new ArrayList<>();
97         try {
98             Class.forName("com.mysql.jdbc.Driver").newInstance();
99             Connection connect = DriverManager
100                    .getConnection("jdbc:mysql://127.0.0.1:3306/covid_19_development?"
101                            + "user=root&password=h123456");
102
103
104            String sql = "select * from tb_user";
105            PreparedStatement preparestatement = connect.prepareStatement(sql);
106            ResultSet resultSet = preparestatement.executeQuery();
107
108            while(resultSet.next()){
109                User user = new User();
110                user.setUsernane(resultSet.getString("username"));
111                user.setPassword(resultSet.getString("password"));
```

Markers | Properties | Servers | Data Source Explorer | Snippets | Console

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        at com.mysql.jdbc.MysqlIO.sqlQueryDirect(MysqlIO.java:2675)
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        at com.mysql.jdbc.ConnectionImpl.execSQL(ConnectionImpl.java:2439)
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        at com.mysql.jdbc.StatementImpl.execute(StatementImpl.java:729)
        at user.dao.InitializeDao.initDB(InitializeDao.java:49)
        ... 25 more
```

Writable | Smart Insert | 79 : 87 [48]

eclipse-workspace - CS480Demo/src/main/webapp/WEB-INF/web.xml - Eclipse IDE

File Edit Source Navigate Search Project Run Window Help

Project Explorer

- ClientProgram
- ConnectFour (in sp2021Project2_connect4)
- CS480Demo
  - Deployment Descriptor: CS480Demo
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    - user.dao
      - InitializeDao.java
      - UserDao.java
    - user.domain
    - user.service
    - user.web.servlet
      - findAll.java
      - InitServlet.java
      - UserServletLogin.java
      - UserServletRegister.java
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  - Maven Dependencies
  - Deployed Resources
  - build
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      - java
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        - jsps
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          - main.jsp
          - top.jsp
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        - Queryresult
        - readme
        - sql
        - WEB-INF
          - lib
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- HomeworkOne

web-app/#text

UserDao.java | InitializeDao.java | InitServlet.java | list.jsp | web.xml

```
1  <?xml version="1.0" encoding="UTF-8"?>
2
3  <web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://JAVA.sun.com/xml/ns/javaee" xsi:schemaLocation="http://java.sun.com/xml/ns/javaee http://java.sun
4    <display-name>CSC4710 Demo</display-name>
5    <servlet>
6      <description></description>
7      <display-name>InitServlet</display-name>
8      <servlet-name>InitServlet</servlet-name>
9      <servlet-class>user.web.servlet.InitServlet</servlet-class>
10   </servlet>
11   <servlet-mapping>
12     <servlet-name>InitServlet</servlet-name>
13     <url-pattern>/InitServlet</url-pattern>
14   </servlet-mapping>
15   <servlet>
16     <description></description>
17     <display-name>UserServletRegister</display-name>
18     <servlet-name>UserServletRegister</servlet-name>
19     <servlet-class>user.web.servlet.UserServletRegister</servlet-class>
20   </servlet>
21   <servlet-mapping>
22     <servlet-name>UserServletRegister</servlet-name>
23     <url-pattern>/UserServletRegister</url-pattern>
24   </servlet-mapping>
25   <servlet>
26     <description></description>
27     <display-name>UserServletLogin</display-name>
28     <servlet-name>UserServletLogin</servlet-name>
29     <servlet-class>user.web.servlet.UserServletLogin</servlet-class>
30   </servlet>
31   <servlet-mapping>
32     <servlet-name>UserServletLogin</servlet-name>
33     <url-pattern>/UserServletLogin</url-pattern>
34   </servlet-mapping>
35   <servlet>
36     <description></description>
37     <display-name>findAll</display-name>
38     <servlet-name>findAll</servlet-name>
39     <servlet-class>user.web.servlet.findAll</servlet-class>
```

Design | Source

Markers | Properties | Servers | Data Source Explorer | Snippets | Console

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        at user.dao.InitializeDao.initDB(InitializeDao.java:49)
        ... 25 more
```

Writable | Smart Insert | 5 : 1 [562]

eclipse-workspace - CS480Demo/src/main/webapp/jsps/user/initialize.jsp - Eclipse IDE

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      - InitServlet.java
      - UserServletLogin.java
      - UserServletRegister.java
  - Server Runtime [Apache Tomcat v9.0]
  - Maven Dependencies
  - Deployed Resources
  - build
  - src
    - main
      - java
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        - jsps
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          - main.jsp
          - top.jsp
        - META-INF
        - Queryresult
        - readme
        - sql
        - WEB-INF
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UserDao.java | web.xml | initialize.jsp | InitializeDao.java | InitServlet.java | list.jsp

```
1  <%@ page language="java" import="java.util.*" pageEncoding="UTF-8"%>
2  <%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
3
4
5  <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
6  <html>
7    <head>
8
9      <title>Initialize Database</title>
10
11     <meta http-equiv="pragma" content="no-cache">
12     <meta http-equiv="cache-control" content="no-cache">
13     <meta http-equiv="expires" content="0">
14     <meta http-equiv="keywords" content="keyword1,keyword2,keyword3">
15     <meta http-equiv="description" content="This is my page">
16     <meta http-equiv="content-type" content="text/html;charset=utf-8">
17     <!--
18     <link rel="stylesheet" type="text/css" href="styles.css">
19     -->
20
21   </head>
22
23   <body>
24     <h1>Initialize Database</h1>
25
26
27 <p style="color: red; font-weight: 900"> ${msg}</p>
28 <form action="<c:url value='/InitServlet'/>" method="post">
29
30     <input type="submit" value="Initialize Database"/>
31 </form>
32   </body>
33 </html>
34
```

Markers | Properties | Servers | Data Source Explorer | Snippets | Console

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        at com.mysql.jdbc.StateementImpl.execute(StatementImpl.java:729)
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        ... 25 more
```

Writable | Smart Insert | 1 : 1 : 0

eclipse-workspace - CS480Demo/src/main/java/user/web/servlet/InitServlet.java - Eclipse IDE

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  - Server Runtime [Apache Tomcat v9.0]
  - Maven Dependencies
  - Deployed Resources
  - build
  - src
    - main
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        - jsps
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UserDao.java | web.xml | initialize.jsp | InitServlet.java | InitializeDao.java | list.jsp

```java
package user.web.servlet;

import java.io.IOException;

/**
 * Servlet implementation class UserServlet
 */

public class InitServlet extends HttpServlet {
    private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()
     */
    public InitServlet() {
        super();
        // TODO Auto-generated constructor stub
    }

    /**
     * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
     */
    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
        doPost(request,response);
    }

    /**
     * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)
     */
    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

        InitializeDao newObj = new InitializeDao();
        newObj.initDB();


    }
}
```

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        at com.mysql.jdbc.StatementImpl.executeInternal(StatementImpl.java:829)
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        ... 25 more
```

Writable | Smart Insert | 50 : 9 [62]

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  - build
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        - readme
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UserDao.java | web.xml | initialize.jsp | InitServlet.java | InitializeDao.java | list.jsp

```java

    public void initDB()    {
        try {

            Class.forName("com.mysql.jdbc.Driver").newInstance();
            Connection connect = DriverManager
                    .getConnection("jdbc:mysql://127.0.0.1:3306/covid_19_development?"
                            + "user=root&password=h123456");
            // Statements allow to issue SQL queries to the database
            covid_resultsS = connect.createStatement();
            covid_resultsS.executeUpdate("DROP TABLE IF EXISTS covid_results");
            sqlstmt = "CREATE TABLE IF NOT EXISTS covid_results " +
                    "(ID INTEGER not NULL, " +
                    "SSN INTEGER not NULL, " +
                    "test_day VARCHAR(45) not NULL, " +
                    "results VARCHAR(45) not NULL, " +
                    "hospital_id INTEGER not NULL, " +
                    "PRIMARY KEY (ID), " +
                    "FOREIGN KEY (hospital_id) REFERENCES hospitals (ID) ON DELETE RESTRICT ON UPDATE CASCADE)";
            covid_resultsS.execute(sqlstmt);


            hospitalsS = connect.createStatement();
            hospitalsS.executeUpdate("DROP TABLE IF EXISTS hospitals");
            sqlstmt = "CREATE TABLE IF NOT EXISTS hospitals " +
                    "(ID INTEGER not NULL AUTO_INCREMENT, " +
                    "Name VARCHAR(45) not NULL, " +
                    "City INTEGER not NULL, " +
                    "State INTEGER not NULL, " +
                    "Adress VARCHAR(45) not NULL, " +
                    "PRIMARY KEY (ID))";
            hospitalsS.execute(sqlstmt);


            cityS = connect.createStatement();
            cityS.executeUpdate("DROP TABLE IF EXISTS city");
            sqlstmt = "CREATE TABLE IF NOT EXISTS city " +
                    "(ID INTEGER not NULL, " +
                    "Name VARCHAR(45) not NULL, " +
                    "PRIMARY KEY (ID))";
            cityS.execute(sqlstmt);
```

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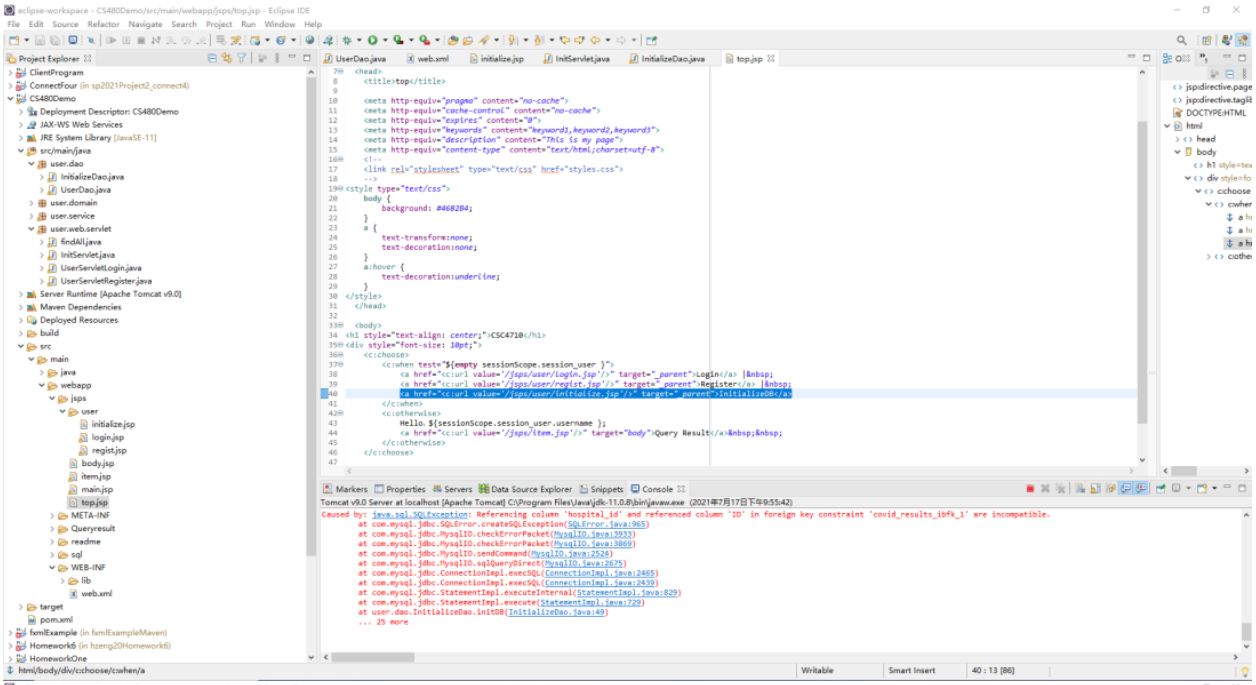
        ... 25 more
```


eclipse-workspace - CS480Demo/src/main/webapp/jsps/top.jsp - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer
ClientProgram
ConnectFour (in sp2021Project2_connect4)
CS480Demo
Deployment Descriptor: CS480Demo
JAX-WS Web Services
JRE System Library [JavaSE-11]
src/main/java
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findAll.java
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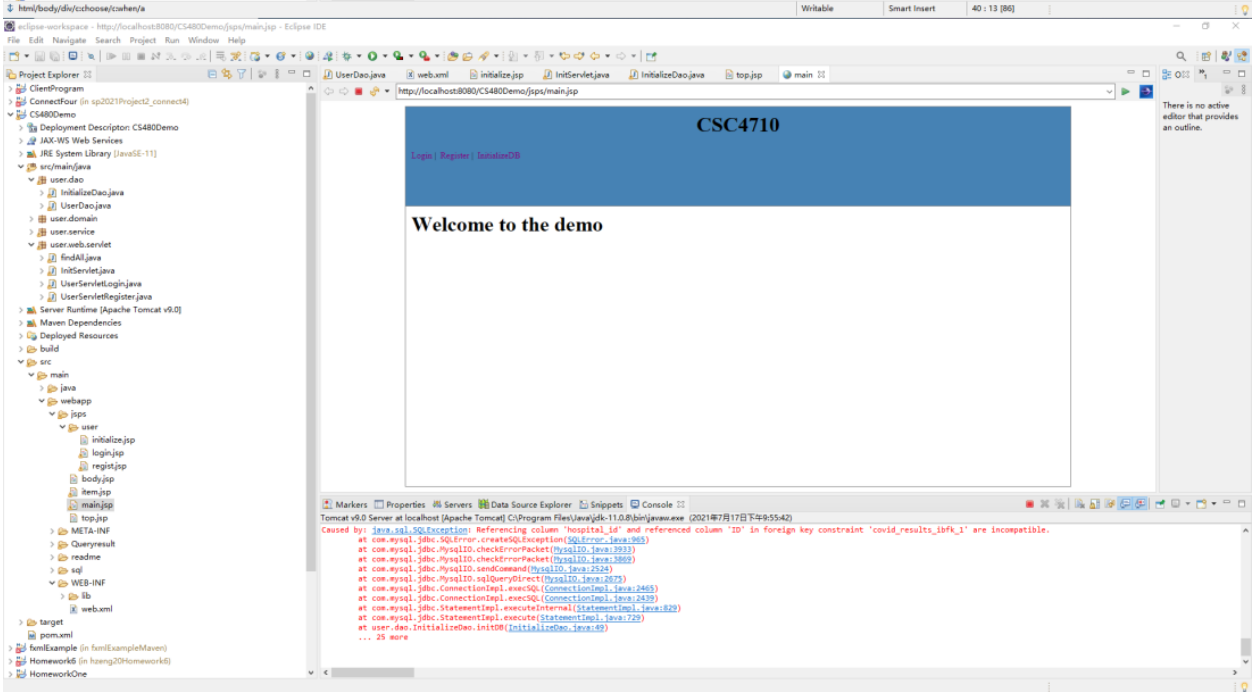
UserServletLogin.java
UserServletRegister.java
Server Runtime [Apache Tomcat v9.0]
Maven Dependencies
Deployed Resources
build
src
main
java
webapp
jsps
user
initialize.jsp
login.jsp
regist.jsp
body.jsp
item.jsp
main.jsp
top.jsp
META-INF
Queryresult
readme
sql
WEB-INF
lib
web.xml
target
pom.xml
fxmlExample (in fxmlExampleMaven)
Homework6 (in hzeng20Homework6)
HomeworkOne
UserDao.java
web.xml
initialize.jsp
InitServlet.java
InitializeDao.java
top.jsp
<head>
<title>top</title>
<meta http-equiv="pragma" content="no-cache">
<meta http-equiv="cache-control" content="no-cache">
<meta http-equiv="expires" content="0">
<meta http-equiv="keywords" content="keyword1,keyword2,keyword3">
<meta http-equiv="description" content="This is my page">
<meta http-equiv="content-type" content="text/html;charset=utf-8">
<!--
<link rel="stylesheet" type="text/css" href="styles.css">
-->
<style type="text/css">
body {
background: #468284;
}
a {
text-transform:none;
text-decoration:none;
}
a:hover {
text-decoration:underline;
}
</style>
</head>
<body>
<h1 style="text-align: center;">CSC4710</h1>

<c:choose>
<c:when test="${empty sessionScope.session_user }">
<a href="<c:url value='/jsps/user/login.jsp'/>" target="_parent">Login</a> |
<a href="<c:url value='/jsps/user/regist.jsp'/>" target="_parent">Register</a> |
<a href="<c:url value='/jsps/user/initialize.jsp'/>" target="_parent">InitializeDB</a>
</c:when>
<c:otherwise>
Hello ${sessionScope.session_user.username };
<a href="<c:url value='/jsps/item.jsp'/>" target="body">Query Result</a>
</c:otherwise>
</c:choose>
Markers Properties Servers Data Source Explorer Snippets Console
Tomcat v9.0 Server at localhost [Apache Tomcat] C:\Program Files\Java\jdk-11.0.8\bin\javaw.exe (2021年7月17日下午9:55:42)
Caused by: java.sql.SQLException: Referencing column 'hospital_id' and referenced column 'ID' in foreign key constraint 'covid_results_ibfk_1' are incompatible.
at com.mysql.jdbc.SQLError.createSQLException(SQLError.java:965)
at com.mysql.jdbc.MysqlIO.checkErrorPacket(MysqlIO.java:3933)
at com.mysql.jdbc.MysqlIO.checkErrorPacket(MysqlIO.java:3869)
at com.mysql.jdbc.MysqlIO.sendCommand(MysqlIO.java:2524)
at com.mysql.jdbc.MysqlIO.sqlQueryDirect(MysqlIO.java:2675)
at com.mysql.jdbc.ConnectionImpl.execSQL(ConnectionImpl.java:2465)
at com.mysql.jdbc.ConnectionImpl.execSQL(ConnectionImpl.java:2439)
at com.mysql.jdbc.StatementImpl.executeInternal(StatementImpl.java:829)
at com.mysql.jdbc.StatementImpl.execute(StatementImpl.java:729)
at user.dao.InitializeDao.initDB(InitializeDao.java:49)
... 25 more
html/body/div/c:choose/c:when/a
Writable
Smart Insert
40 : 13 [86]


eclipse-workspace - http://localhost:8080/CS480Demo/jsps/main.jsp - Eclipse IDE
File Edit Navigate Search Project Run Window Help
Project Explorer
ClientProgram
ConnectFour (in sp2021Project2_connect4)
CS480Demo
Deployment Descriptor: CS480Demo
JAX-WS Web Services
JRE System Library [JavaSE-11]
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main
http://localhost:8080/CS480Demo/jsps/main.jsp
CSC4710
Login | Register | InitializeDB
Welcome to the demo
There is no active editor that provides an outline.
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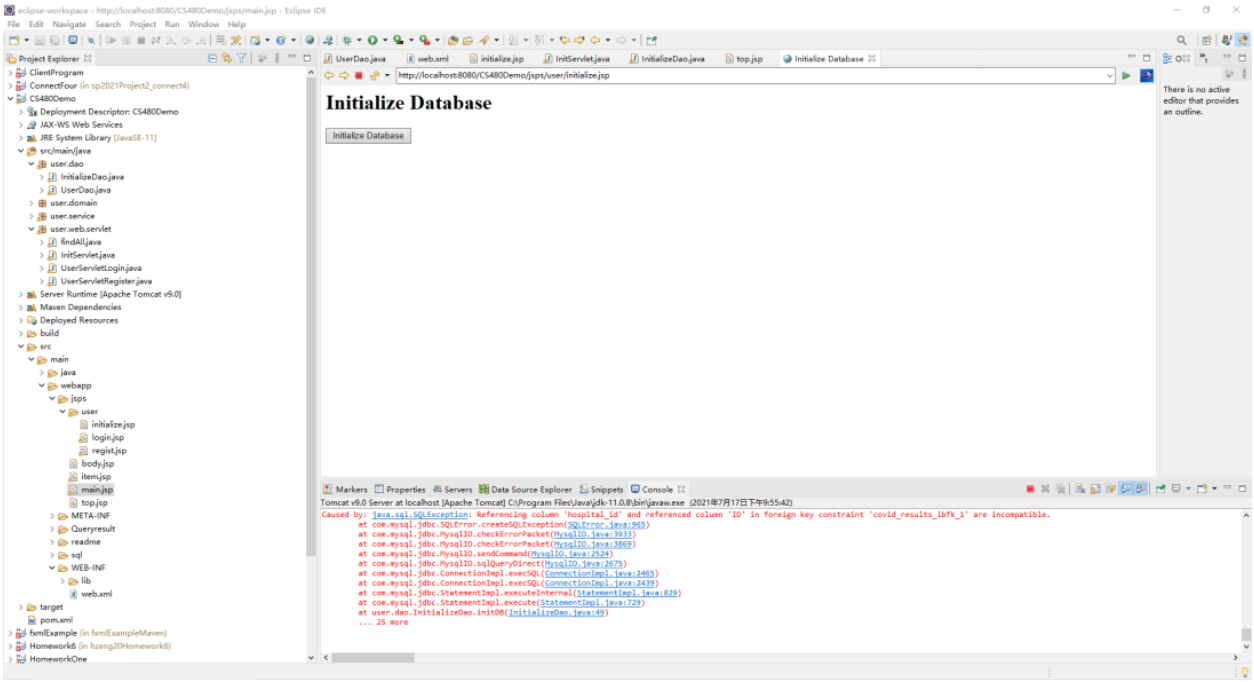
... 25 more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top.jsp
Initialize Database
http://localhost:8080/CS480Demo/jsps/user/initialize.jsp
Initialize Database
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