# **COMP 3311: Database Management Systems**

# Lab 8 Exercise: Accessing Oracle Database Via A Web Application

## **WHAT TO DO**

- 1. <u>Download</u> the Lab8Exercise.zip folder from the *Accessing Oracle Database Via A Web Application* entry of the Lab Schedule course web page to the desktop and unzip it.
- 2. **Execute** the Lab8DB.sql script file inside the Lab8Exercise folder in SQL Developer.
- 3. <u>Complete</u> TODOs 02 to 09 in the file UniversityDBAccess.cs inside the App\_Code folder in the Solution Explorer.

After you complete all the **TODO**s, you should be able to do the following. (Note that TODO 01 is already completed for you.)

- 1. Login as admin using the email "admin" and
  - create a new student record as shown in Figure 1 (uses TODO 02 and 04).
  - modify a student record as shown in Figure 2 (uses TODO 01, TODO 02 and TODO 05).
  - find a specific student record as shown in Figure 3 (uses TODO 01).
  - find all the student records in a department as shown in Figure 4 (uses TODO 02 and 03).
- 2. Login as a student using the email of any student and
  - enroll in courses as shown in Figure 5 (uses TODO 07, 08 and 09).
  - find the courses in which the student has enrolled as shown in Figure 6 (uses TODO 06).

IMPORTANT: Using the UniversityWebsite, you should create a student record for yourself with the same information as that used in Lab 7.

### **WHAT TO SUBMIT**

Submit your completed UniversityDBAccess.cs code file. Be sure to complete the student name and student id comment at the top of the code file *before* you submit it.

**IMPORTANT**: No credit will be given for this lab if your name and student id are missing.

### **How To Submit**

**By 11 p.m. tomorrow (Friday)**, upload your UniversityDBAccess.cs code file to Canvas by selecting *Lab 8* in the Assignments section of Canvas and then selecting the Submit Assignment button

The UniversityDBAccess.cs code file can be found inside the App\_Code folder of your UniversityWebsite folder. It is highly advisable to first close Visual Studio <u>before</u> you access the UniversityDBAccess.cs code file from outside Visual Studio.

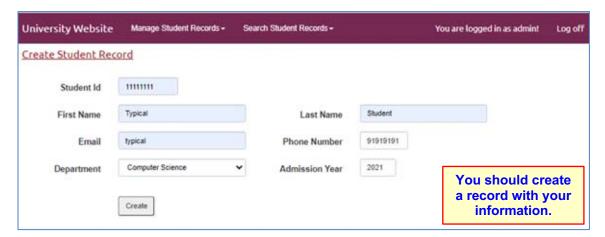


Figure 1: Example webpage showing new student record creation.

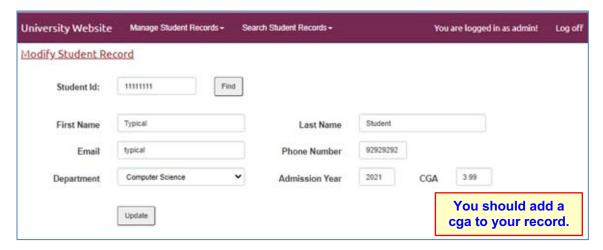


Figure 2: Example webpage showing student record modification.



Figure 3: Example webpage showing individual student record.

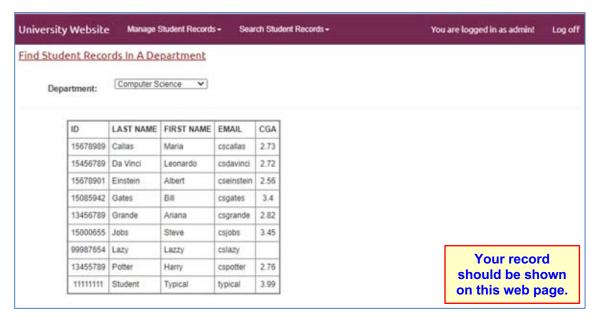


Figure 4: Example webpage showing student information in a department.

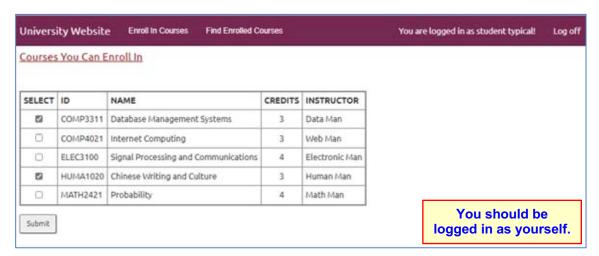


Figure 5: Example webpage showing available courses for a student to enroll in.

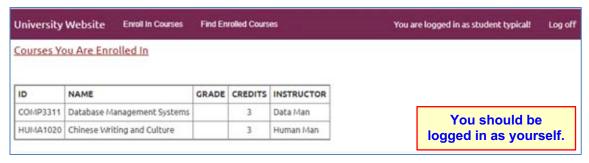


Figure 6: Example webpage showing enrolled courses for a student.