

# COMP 3311: Database Management Systems

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

### HOW TO GET THE CREDIT FOR THIS LAB

1. **Download** 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. **Complete** TODOs 02 to 09 in the file UniversityDB.cs inside the App\_Code folder in the Solution Explorer.

After you complete all the **TODOs**, 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 04 and 05).
  - view a specific student record as shown in Figure 2 (uses TODO 01 and 02).
  - view all the student records in a department as shown in Figure 3 (uses TODO 03 and 04).
2. Login as a student using the email of any student and
  - enroll in courses as shown in Figure 4 (uses TODO 06).
  - view the courses in which the student has enrolled as shown in Figure 5 (uses TODO 07, 08 and 09).

**IMPORTANT:** You should create a student record for yourself with the same information as that used in Lab 7.

### WHAT TO SUBMIT

Submit your completed UniversityDB.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. **No credit will be given for this lab if this information is missing.**

### HOW TO SUBMIT

**By 11:00 p.m. today**, upload your UniversityDB.cs code file to Canvas by selecting *Lab 8* in the Assignments section of Canvas and then selecting the Submit Assignment button

The UniversityDB.cs code file can be found inside the App\_Code folder of your UniversityWebsite folder. It is highly advisable to first close Visual Studio before you access the UniversityDB.cs code file.

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

University Website Admin Functions ▾ Hello, admin ! Log off

Create Student Record

Student Id:  Email:

First Name:  Last Name:

Phone Number:  Department:

Admission Year:

**You should create a record with your information.**

Figure 1: Example web page showing new student record creation.

University Website Admin Functions ▾ Hello, admin ! Log off

Search For Student Record

Student Id:

**Your record should be shown on this web page.**

Search Result

STUDENTID	FIRSTNAME	LASTNAME	EMAIL	PHONENO	CGA	DEPARTMENTID	ADMISSIONYEAR
11111111	Typical	Student	typical	91919191		COMP	2017

Figure 2: Example web page showing individual student record.

University Website Admin Functions ▾ Hello, admin ! Log off

Display Student Records In A Department

Department:

**Your record should be shown on this web page.**

Enrolled Students

ID	LAST NAME	FIRST NAME	EMAIL	CGA
15678989	Callas	Maria	cscallas	2.73
15456789	Da Vinci	Leonardo	csdavinci	2.72
15678901	Einstein	Albert	cseinstein	2.56
15085942	Gates	Bill	csgates	3.4
13456789	Grande	Ariana	csgrande	2.82
15000655	Jobs	Steve	csjobs	3.45
99987654	Lazy	Lazzy	cslazy	
13455789	Potter	Harry	cspotter	2.76

Figure 3: Example web page showing student information in a department.

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

[University Website](#)   [Enroll In Courses](#)   [Display Enrolled Courses](#)   Hello, typical !   [Log off](#)

[Enroll in Courses](#)

You should be logged in as yourself.

**Courses You Can Enroll In**

SELECT	ID	NAME	CREDITS	INSTRUCTOR
<input checked="" type="checkbox"/>	COMP3311	Database Management Systems	3	Chen Lei
<input type="checkbox"/>	COMP4021	Internet Computing	3	David Rossiter
<input type="checkbox"/>	ELEC3100	Signal Processing and Communications	4	Electronic Man
<input checked="" type="checkbox"/>	HUMA1020	Chinese Writing and Culture	3	Human Man
<input type="checkbox"/>	MATH2421	Probability	4	Isaac Newton

Figure 4: Example web page showing available courses for a student to enroll in.

[University Website](#)   [Enroll In Courses](#)   [Display Enrolled Courses](#)   Hello, typical !   [Log off](#)

[Enrolled Courses](#)

You should be logged in as yourself.

**Courses You Are Enrolled In**

ID	NAME	GRADE	CREDITS	INSTRUCTOR
COMP3311	Database Management Systems		3	Chen Lei
HUMA1020	Chinese Writing and Culture		3	Human Man

Figure 5: Example web page showing enrolled courses for a student.