

COMP 3311: Database Management Systems

Lab 8 Exercise: Accessing Oracle Database Via A Web Application

WHAT TO DO

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 UniversityDBAccess.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 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 before you access the UniversityDBAccess.cs code file from outside Visual Studio.

Lab 8 Exercise: Accessing Oracle Database Via A Web Application

University Website Manage Student Records - Search Student Records - You are logged in as admin! Log off

Create Student Record

Student Id:

First Name: Last Name:

Email: Phone Number:

Department: Admission Year:

You should create a record with your information.

Figure 1: Example webpage showing new student record creation.

University Website Manage Student Records - Search Student Records - You are logged in as admin! Log off

Modify Student Record

Student Id:

First Name: Last Name:

Email: Phone Number:

Department: Admission Year: CGA:

You should add a cga to your record.

Figure 2: Example webpage showing student record modification.

University Website Manage Student Records - Search Student Records - You are logged in as admin! Log off

Find Student Record

Student Id:

ID	FIRST NAME	LAST NAME	EMAIL	PHONE	CGA	DEPT	ADMIT YEAR
11111111	Typical	Student	typical	92929292	3.99	COMP	2021

Your record should be shown on this web page.

Figure 3: Example webpage showing individual student record.

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University Website Manage Student Records - Search Student Records - You are logged in as admin! Log off

Find Student Records In A Department

Department:

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	cs Gates	3.4
13456789	Grande	Ariana	csgrande	2.82
15000655	Jobs	Steve	csjobs	3.45
99987654	Lazy	Lazy	cs lazy	
13455789	Potter	Harry	cspotter	2.76
11111111	Student	Typical	typical	3.99

Your record should be shown on this web page.

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

University Website Enroll In Courses Find Enrolled Courses You are logged in as student typical! Log off

Courses You Can Enroll In

SELECT	ID	NAME	CREDITS	INSTRUCTOR
<input checked="" type="checkbox"/>	COMP3311	Database Management Systems	3	Data Man
<input type="checkbox"/>	COMP4021	Internet Computing	3	Web Man
<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	Math Man

You should be logged in as yourself.

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

University Website Enroll In Courses Find Enrolled Courses You are logged in as student typical! Log off

Courses You Are Enrolled In

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

You should be logged in as yourself.

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