### Database Application Development

**Project – Milestone 1**

# Objective:

In this lab students learn:

* How to connect to a Oracle server from a C++ program.
* How to write and execute SQL queries in a C++ program.

# Getting Started Instructions:

These instructions are similar and can be supplemented by looking at dbs211.ca under week 7.

# Create Oracle Server Connection:

To connect to the Oracle server from your C++ program in Visual Studio, you need to follow the steps provided on DBS211.ca – Week 8 under database access and connections: Get to the point where you have entered **BOTH** code pieces and have a successful connection to the database and are retrieving some basic information from the database.

Modify the second code block to show the information from the “EMPLOYEES” table.

Some tasks that should be completed as part of working towards the first project milestone.

* the output should be formatted in a way that columns line up nicely
* the appropriate data types are used for the respective database data type
* all open objects should be terminated
* *try to modify the SQL statement to include a WHERE clause to return a specific employee number and only show the output for the employee number typed in from a console prompt line.*
* Error check the code for a couple things, 1 – the entered employee number is the right data type before trying to query the database and 2 – the employee number exists in the database before trying to output the values to the console window. Give appropriate error messages to the user in both cases.

# Tasks

1. Modify your code such that the connection success message has your name and the current date in the message.
2. Make sure your code has an appropriate comment header.

# Submission

Your submission will consist of 3 things:

1. Your entire project folder zipped up and submitted,
2. A screen shot of your console window displaying your connection successful message with your name and the current date in it, and
3. A short video (1 minute) with you sharing your screen and talking about the code, the connection, and demonstrating it working.