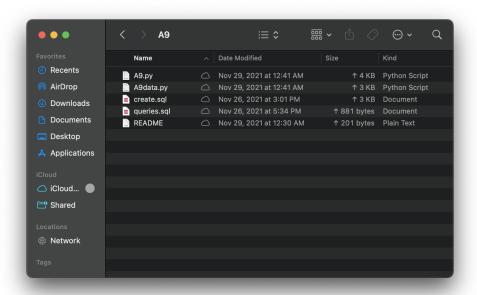
#### Installation instructions

- 1. Follow steps 1, 3, and 4 from the <u>Oracle Knowledge Base</u> to install all dependencies needed to run the database UI. Choose your operating system from the top tabs.
  - a. For step 1, follow the instructions for "if you already have a database but it is on a remote computer" in order to install Oracle Instant Client.
- 2. Extract A9.zip into the desired location. The zip should contain the following files:



#### How to use

The following instructions are based on use on macOS.

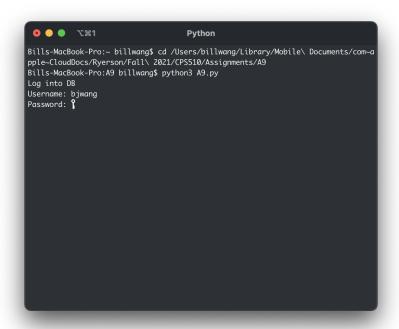
Before use, please ensure that you have access and are connected to the Ryerson DCS VPN network. More information on how to connect to the VPN can be found on the CPS510 course shell on D2L.

Once you have followed the installation instructions, ensure that you are situated in the directory where you have extracted the application files. Then, run the database application in a terminal window by typing in "python A9.py". Depending on your operating system or Python installation, you may need to use "python3" instead of "python".

```
-bash

Bills-MacBook-Pro:~ billwang$ cd /Users/billwang/Library/Mobile\ Documents/com~a pple~CloudDocs/Ryerson/Fall\ 2021/CPS510/Assignments/A9
Bills-MacBook-Pro:A9 billwang$ python3 A9.py
```

On start, the application will prompt for your CS username and password in order to connect to the Ryerson Oracle 11g database:



Once connected, the application will give options to interact with the database:

Each option can be selected by typing the corresponding letter and pressing Enter. The options are described as follows:

## 1) Drop tables

Drops all tables from the current database.

### 2) Create tables

Creates all tables necessary for the functioning of the university online student registration system.

### 3) Populate tables

Populates all tables generated from 2) with dummy data.

```
| Oracle All Inclusive Tool |
| Main Menu - Select Desired Operation(s): |
1) Drop Tables
2) Create Tables
3) Populate Tables
4) Query Tables
E) End/Exit
Choose: 3
5 rows inserted into Student table
2 rows inserted into Transactions table
3 rows inserted into Addresses table
5 rows inserted into Course table
15 rows inserted into Section table
15 rows inserted into sSection table
2 rows inserted into Department table
4 rows inserted into Registered table
3 rows inserted into Undergrad table
1 rows inserted into Documents table
2 rows inserted into Graduate table
2 rows inserted into sDegree table
 | Oracle All Inclusive Tool |
```

### 4) Query tables

Runs queries with specific applications using the tables with data generated from 3).



# e) End/exit

Ends the program and database connection.