CSC423 Python Tutorial for Final Project

Following are instructions for working with Python in the final project.

Prerequisites

Please install the following on your machine. Click on the text to follow hyperlinks.

- 1. Make sure you have an editor like Sublime Text/Visual Studio Code to edit code with (or vim/emacs if you're groovy).
- 2. Python 3
- 3. cx_Oracle 8. Can be installed using pip or pip3:

python -m pip install cx_Oracle --upgrade

- 4. Oracle Instant Client
- 5. pandas. Can be installed using pip or pip3.

pip install pandas

For additional instructions on cx_Oracle 8, please see the following:

• https://cx-oracle.readthedocs.io/en/latest/user_guide/installation.html

Steps

It is assumed that you have placed the contents of the tutorial ZIP you downloaded from Blackboard in a directory you can access. That directory should have the following files: (1) connect_oracle.py and (2) this PDF.

- 1. Unzip the contents of the Oracle Instant Client and place it in the same directory.
- 2. Open connect_oracle.py in an editor. Look for the TODO's in the file and modify accordingly.
- 3. You should be able to run the Python file as follows:

python3 connect_oracle.py

- 4. A print out of a pandas dataframe with employee info should result.
- 5. You will use pandas to manipulate the contents of the returned query. Please consult the following quick start guide for help with pandas: https://pandas.pydata.org/pandas-docs/stable/user_guide/10min.html

Notes

If you have any questions, please feel free to reach out to the instructor and/or the TAs.