San José State University
Department of Applied Data Science

DATA 201
Database Technologies
for Data Analytics

Spring 2025
Section 21
Instructor: Ron Mak

Assignment #1

Assigned: Thursday, January 23
Due: Thursday, January 30 at 5:30 pm
            Individual assignment, 100 points max

Software installations

The purpose of this assignment is to make sure that every student has properly installed the initial set of required software:

- Python and Jupyter notebook
- MySQL database management system (DBMS)
- MySQL Workbench
- MySQL Connector/Python

Refer to the lecture notes for instructions on installing the software for creating and loading the **school** database using MySQL Workbench and file `school.sql`.

Run the Python program

Run the standalone Python program `Assignment1.py` in a terminal window:

```
ipython Assignment1.py
```

Run the Jupyter notebook

Run `Assignment1.ipynb` in a notebook:

1. In a terminal window, `cd` to the directory or folder containing `Assignment1.ipynb`.
2. Enter the command `jupyter lab`
3. Jupyter lab will start in a browser.
4. Double-click on `Assignment1.ipynb` in the left panel to display the notebook.
5. From the **Run** menu, select **Run All Cells**.
6. Output should appear in cells.
7. From the **File** menu, select **Save Notebook**.

What to submit

Submit the following screenshots from your computer :

- A screenshot of **MySQL Workbench** that shows
    - the **school** schema listed among the schemas
    - an SQL query (make up one or copy one from the "Introduction to SQL Queries" website)
    - the results of the query
- A screenshot or text file from executing the standalone Python program **Assignment1.py** in a terminal window.
- The notebook **Assignment1.ipynb** including the output cells.

Rubric

Criteria	Max points
MySQL Workbench screenshots ○ the school schema listed among the schemas ○ an SQL query ○ the results of the query **Screenshot or text file from executing Assignment1.py in a terminal window.** **The notebook Assignment1.ipynb including the output cells**	• **60** ○ 20 ○ 20 ○ 20 • **20** • **20**