San José State University
Department of Applied Data Science
DATA 225
Database Systems for Analytics
Fall 2023
Section 21
Instructor: Ron Mak

## Assignment \#1

Assigned: Monday, August 21<br>Due: $\quad$ Monday, August 28 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

- MySQL Workbench screenshots
- 60
- 20
- 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
- 20
- 20
- 20
- 20

