Miriam Lam
CSC 365 - Introduction to Databases
Lab 1, Part b

**• List of team members**

Miriam Lam

**• Initial decisions: programming language, development environment**

Python because it is the easiest and I am familiar with it. Python also has nice built in data structures that I am not sure how to use in other languages. Although I didn't really use them for this case, I could see how they would be beneficial esp in the Analytics

**• Notes on your chosen internal architecture: what data structures you used, for what purposes**

I used a 2D array because I thought of the data as a table, and the lectures implied that the tuple was a row, and the attribute was the column. And there would be no indexing errors because each category was filled for each person (no missing GPA, etc). This was still ok for the second part of the lab because i just checked the classroom arg of the student against the classroom arg of the teacher. I kept the same file because I thought it would be easier for me to work from there.

**• Task log. For each task to be completed, list the name of the task, the student(s) performing it, start time, end time, total person-hours it took to complete. Choose the granularity wisely. You do not have to document every method or function.**

- Setting up the switch statement/UI
  - 20 minutes
- Modifying old functions
  - 5 mins
- Creating new functions
  - 15 mins each
- Creating analytics functions:
  - 20 mins each
- Debugging/testing
  - 30 minutes

**• Notes on testing. When, who, how long, how many bugs found, how long it took to fix them**

I forgot to reset the gpa back to 0 after each teacher, and i found out when all the averages has too many sig digs. this was a pretty easy fix.

**• Final notes (anything else you want to share with me about your implementation)**

we cant assume 1 teacher/classroom so the classroom AND grade have to determine the teacher?
i wanted to find the median value and its easy to do but i just did not have enough time