XU-0025: SAC 4 – Reflection

* ***What challenges did you encounter? How did you overcome them?***

At first, I could not figure out how to format the output properly and efficiently; however, I remembered there was a way to make a string a certain length of characters and searched it up, which allowed me to format the outputs nicely. I also could not figure out a way to put query 6 in the options dictionary while being able to dynamically change the task. I overcame this by have query 6 be its own separate variable that is defined after the user has inputted a task.

* ***What lessons did you learn from this assessment? How can you apply those lessons to future assessments?***

I learnt how to query using sql and sqlite as well as how to create a database which I found very interesting. Generating random data is also certainly a useful skill to learn and could be used in the future. My programming skills also improved during this assessment, which will help me with future assignments that include coding.

* ***What improvements or enhancements would you consider making to the implemented database in the future?***

If I had more time, I would definitely try to implement the interface as a flask website (I still might do it later for the experience when I have time). I would also have more information in the database to make it more complete and realistic.

* ***Did you have any issues with constructing the SQL queries? What would you do in future?***

During part two of the task, I was a bit stuck on what queries to have, but after some brainstorming, I was able to come up with a few that I liked. A good way to get ideas in the future would be to ask others what queries could be good or compare to an already existing database.