Exercise 1.6: Connecting to Databases in Python

1. **What are databases and what are the advantages of using them?**

   Databases are where we store data. They allow data to be organized, managed, and stored in a structured way. They're a great way to organize data and access it easily. Databases also provide a great solution to redundant data.

2. **List 3 data types that can be used in MySQL and describe them briefly:**

Data type	Definition
INT	Used to store whole numbers, both positive and negative
VARCHAR	Used to store strings
DATE	Stores dates using the format YYYY-MM-DD

3. **In what situations would SQLite be a better choice than MySQL?**

   SQLite would be a better choice when working with smaller projects.It is also a good choice to provide local storage in mobile development.

4. **Think back to what you learned in the Immersion course. What do you think about the differences between JavaScript and Python as programming languages?**

   I do agree that JavaScript has a much higher learning curve than Python.The syntax of Python is far easier to read. I also like the versatility of Python. It can be used for general tasks, automation, data science and more.

5. **Now that you're nearly at the end of Achievement 1, consider what you know about Python so far. What would you say are the limitations of Python as a programming language?**

   There are a few things that limit Python as a language. One of the main being the high consumption usage of the language. Python has a huge collection of libraries which can lead to conflicts amongst dependencies. However, this can be managed by using a virtual environment, like *venv*.