Exercise 1.6: Connecting to Databases in Python

Learning Goals

- Create a MySQL database for your Recipe app

Reflection Questions

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

    a. Databases are structures storage objects that store data in tables that consists of columns and rows. The advantages include structured storage, robust querying and security options, easy management, and scalability.

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

Data type	Definition
INT	Integer - whole number.
FLOAT	Decimal number.
VARCHAR(n)	String of variable length, n represents the number of characters.

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

    a. When working only with very small databases or testing a database. SQLite doesn't require installation, is portable, and stores data in simple .db files.

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?

    a. JavaScript is oriented towards functional programming and front-end. It requires additional libraries or frameworks to build a backend, such as Node.js. Python seems to be easily used whether functional or object-oriented approach, has a lot of built-in tools, and the entire environment is better equipped to build back-end, front-end, test code in shell, etc. Although it can also incorporate additional libraries and frameworks for advanced functionality.

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?

    a. I think that building front-end functionality is a bit trickier with Python. Otherwise, I cannot judge on any other potential weaknesses at this stage of the course.