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?*

Databases are organized data collections that offer advantages like keeping data accurate, consistent, and secure. They can handle large amounts of information, store it for a long time, and allow multiple users to access and work with it. Databases also provide tools to search and analyze data effectively.

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

Data type	Definition
Integer (INT)	Used for storing whole numbers
Varchar	Used for storing variable-length character strings
DATETIME	Used for storing datetime values

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

SQLite is a good choice for a database inside your application or on a local machine. It works well for small to medium-sized datasets, is easy to set up, and is simple to use. However, MySQL may be a better option for larger applications with high concurrency or advanced features.

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?*

JavaScript and Python have different syntaxes. JavaScript can be more complex, while Python is simpler and easier to read. In terms of programming approach, both languages share

similarities. It's common to break code into smaller functions for reusability and to avoid repetition. However, managing packages and versions can be more difficult in Python compared to JavaScript. Python has multiple package management tools, requiring careful handling.

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?*

For now, the focus was on learning the fundamentals. I can't really speak about the limitations of the language. As I progress, I'll discover more about the potential limitations of Python.