

Exercise 1.6: Connecting to Databases in Python

Learning Goals

- Create a MySQL database for your Recipe app

Reflection Questions

- What are databases and what are the advantages of using them?
 - Databases are used to organize and store data in tables and they allow for adding data, modifying data, retrieving data, deleting data, and more.
 - The advantages include not needing to store files on your computer as they are stored in the organized database, the database files and tables are password protected and secure, and they allow for easy access to data, and they are scalable.
- List 3 data types that can be used in MySQL and describe them briefly:

Data type	Definition
INT	Integers are numbers that can be added to tables in SQL and are used as Ids
TEXT	Text allows for words to be added to the SQL tables and store names and descriptions
FLOAT	Floats are numbers with decimal points and other symbols that can be added to the tables to dates, times, prices, etc.

- In what situations would SQLite be a better choice than MySQL?
 - SQLite would be a better choice if you were building a website for a small business that would not require a large amount of data to be added to a database. They are simpler and easier to use than SQL.
- 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 think that they are similar in some ways, but Python is a little easier to work with. It is more straightforward and seems to play better with others than JavaScript, but they are used for different things.
 - JavaScript is used for web development and it runs in browsers and is interactive and used for frontend development, while Python is more general and works best for backend development.
- 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?
 - Python is kind of old school and somewhat slower in its operations, it's not great for mobile development.
 - Also, some of its methods seem a bit outdated. Such as using SQL databases while I used NoSQL with JavaScript, which is far more modern and flexible.