9.0.2

Module 9

Looking Ahead

In this module, you'll spend time with new tools such as SQLite, SQLAlchemy, and Flask to build on your knowledge of SQL database structures and querying methods. You'll also write and execute Python code in a Jupyter notebook and create graphs using Python.

What You Will Learn

By the end of this module, you will be able to:

- Explain the structures, interactions, and types of data of a provided dataset.

- Differentiate between SQLite and PostgreSQL databases.

- Use SQLAlchemy to connect to and query a SQLite database.

- Use statistics like minimum, maximum, and average to analyze data.

- Design a Flask application using data.

Planning Your Schedule

Here's a quick look at the lessons and assignments you'll cover in this module. You can use the time estimates to help pace your learning and plan your schedule.

- Introduction to SQLite, SQLAlchemy, and Flask (15 minutes)

- SQLite and SQLAlchemy (1 hour)

- Precipitation Analysis (1 hour)

- Weather Station Analysis (2 hours)

- Getting Acquainted with Flask (2 hours)

- Build a Climate App Using Flask (2 hours)

- Application (5 hours)