



Module 5: Database Access & Networking

Introduction

In this module, you will learn how to use python to connect to a database and perform query operations. You will also learn about how to connect two python programs over a network and make them communicate with each other.

Learning Outcome

Apply techniques to connect to a remote database from Python. Design two python programs to connect over a network.

Learning Objectives

- Explain what a database is and connect to it.
- Query a database with very simple commands (this is not a database/SQL course).
- Explain what networking is and how two programs communicate over the network.
- Write a simple server program.
- Write a simple client program.

Learning Activities

- Participate in the classroom or virtual (Zoom) learning session for Module 5 – Database Access & Networking
- Review the Module 5 – Database Access & Networking Slide Presentation
- Complete a python program that can operate with a database. We will also create a python client and server that can communicate with each other. We will walk through the following steps as a class:
 1. Start by understanding what a database is and how python can connect to it.
 2. Connect to a database and execute simple query statements
 3. Gain understanding of network and sockets.
 4. Write a simple client server program using sockets.

Data Base Files

- M5_cars

- M5_Test

Python Programs

- M5_client.py
- M5_DB.py
- M5_practice_client.py
- M5_practice_db.py
- M5_practice_server.py
- M5_server.py

Assignment

There are no assignments for Module 5.

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PowerPoint Presentation

