IT-566
Computer Scripting
Techniques

Week 7

Talking Points

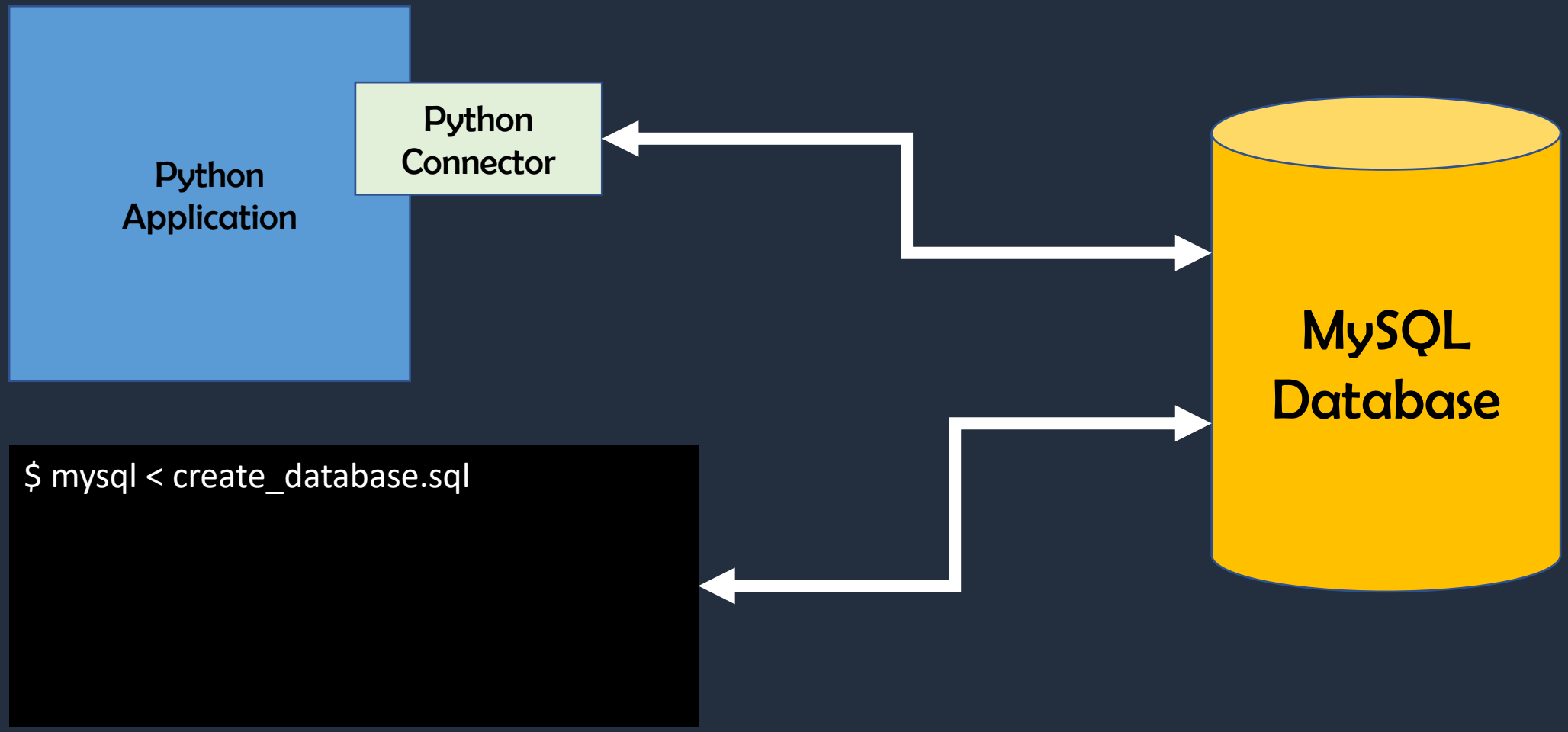
- Intro to Database Programming
- MySQL
  MAMP & phpMyAdmin
- Database Scripts
- Python MySQL Connector

Database
Programming
is Cool!

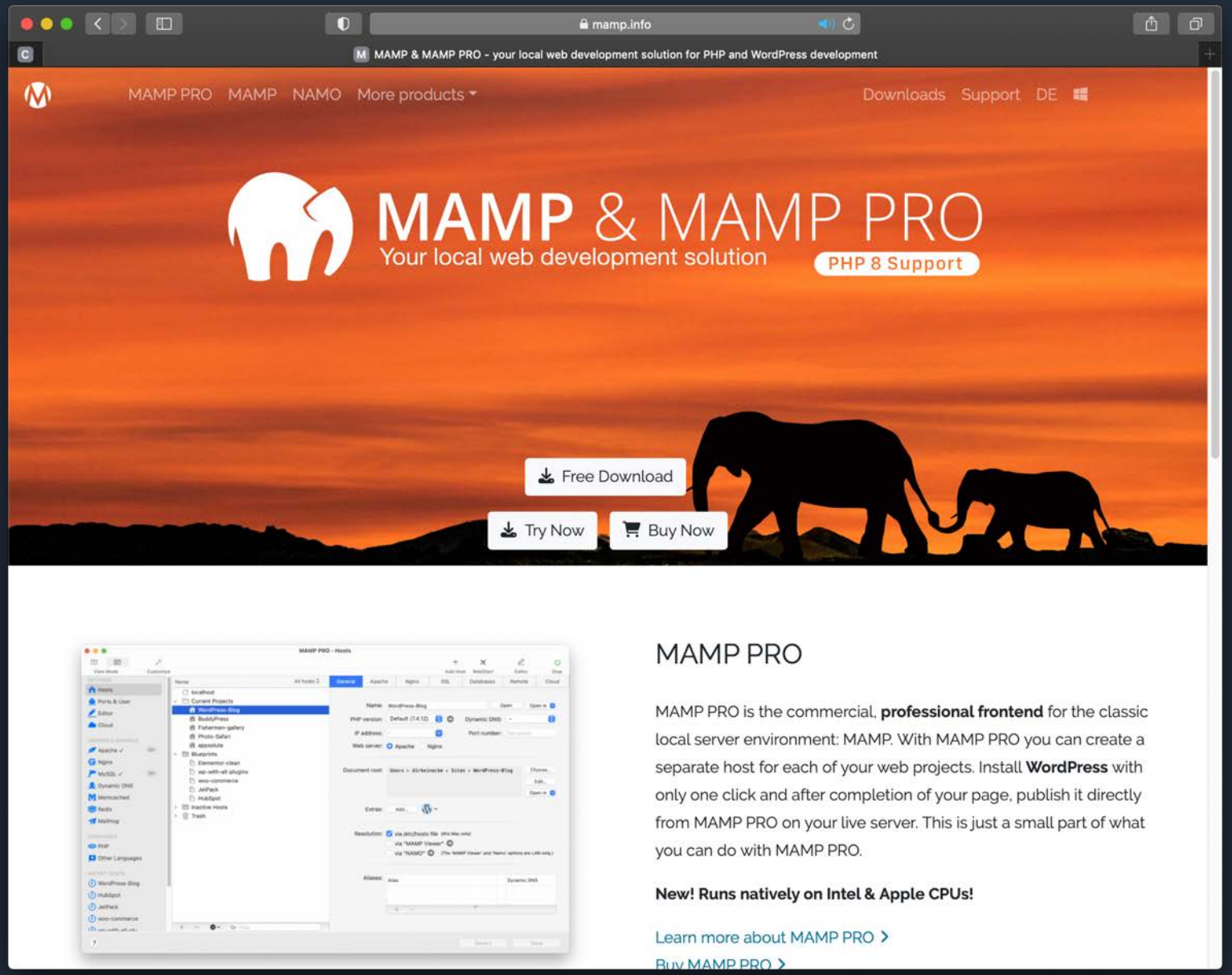
Introduction to Database Programming

- What Is A Database?
- Different Types Of Databases…
  - Flat File
    - Plain text records in a file
  - Hierarchical
    - Parent/Child
  - SQL/Relational
    - Collection of tables
    - Seeks to minimize data redundancy
  - NoSQL
    - Speed at the cost of repetitive data
  - Graph
    - Elements connected by finite number or relations

Introduction to Database Programming



MAMP

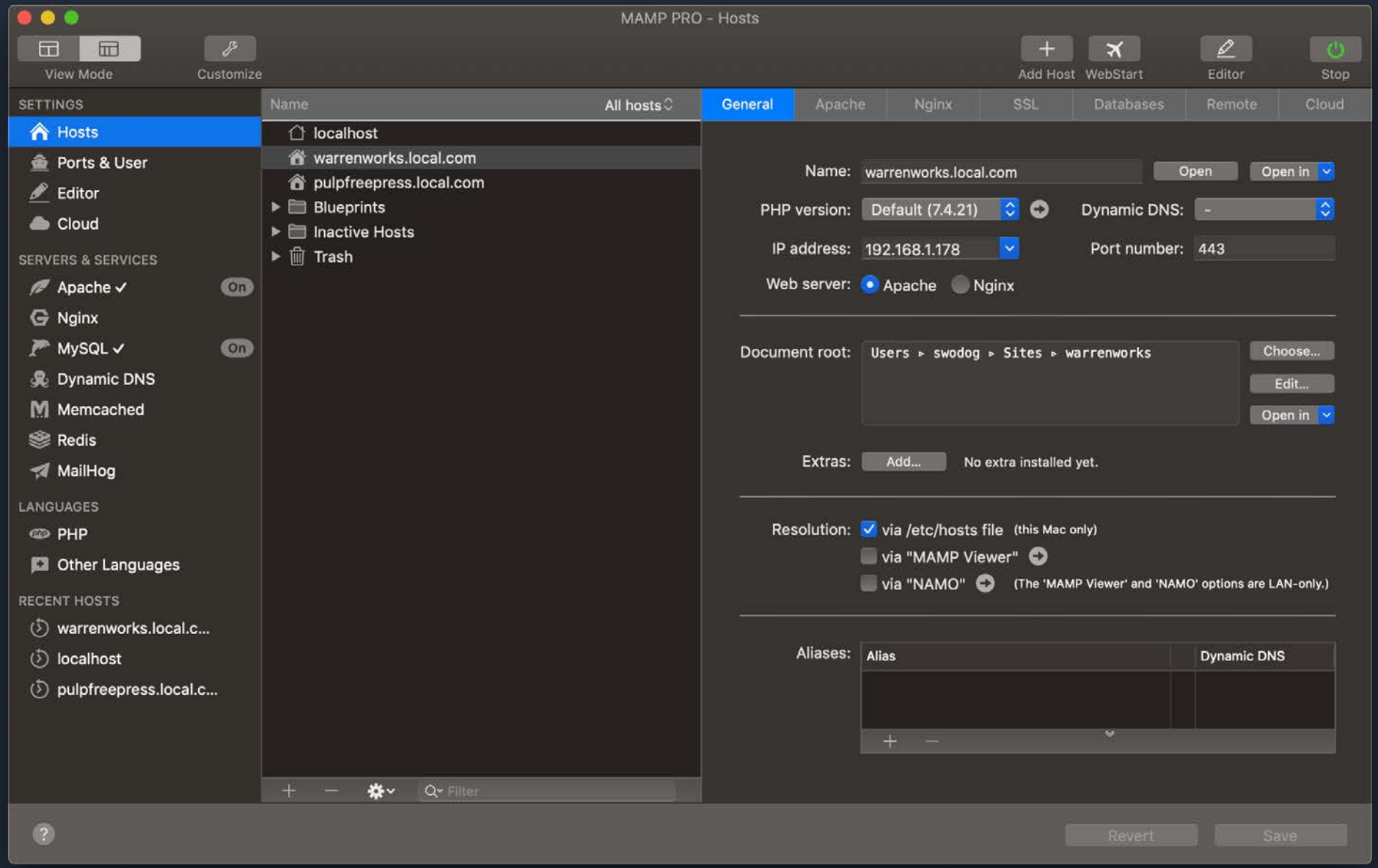


https://mamp.info

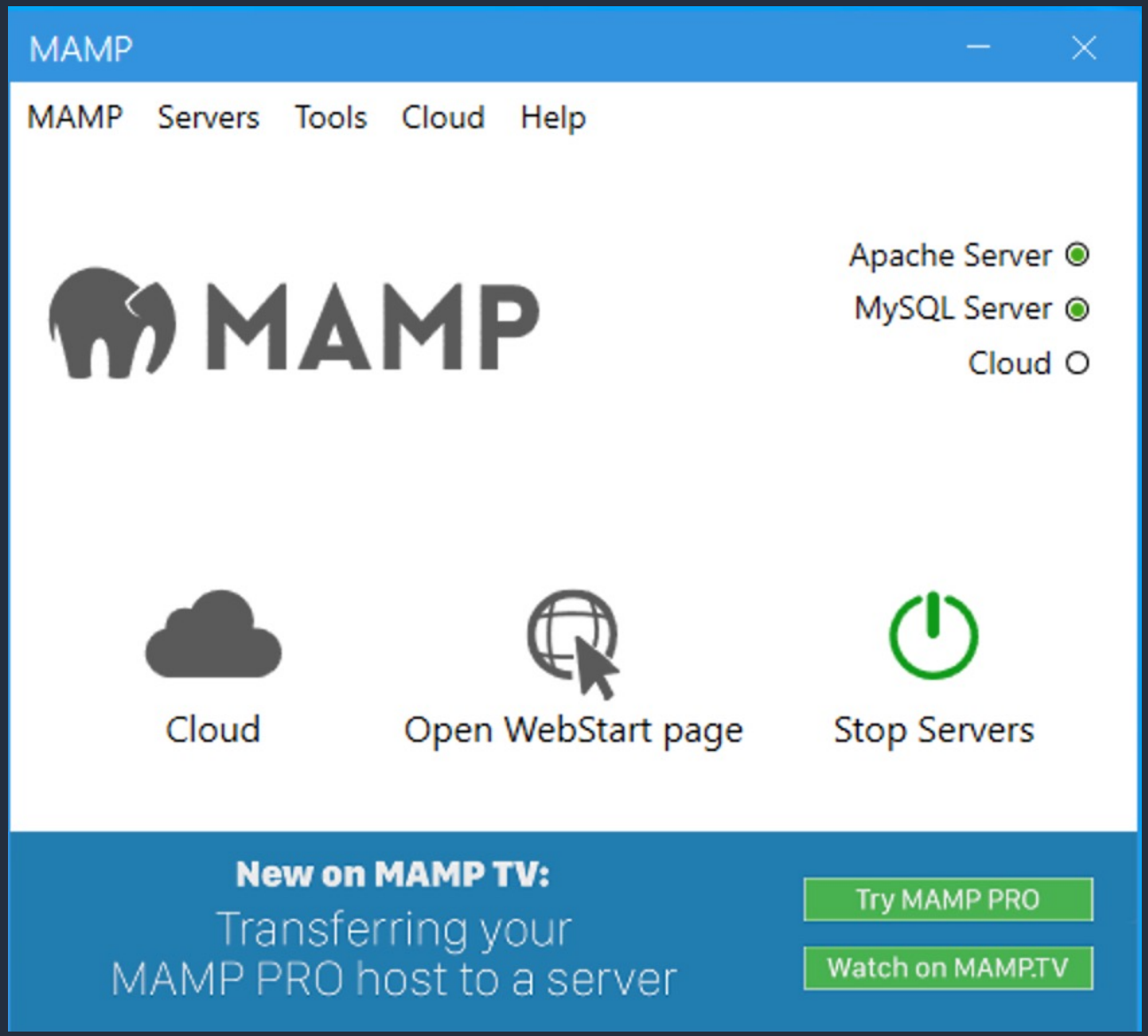
MacOS
Apache
MySQL
PHP | Python

Installs MySQL plus Apache and phpMyAdmin, which is a browser-based MySQL administration GUI

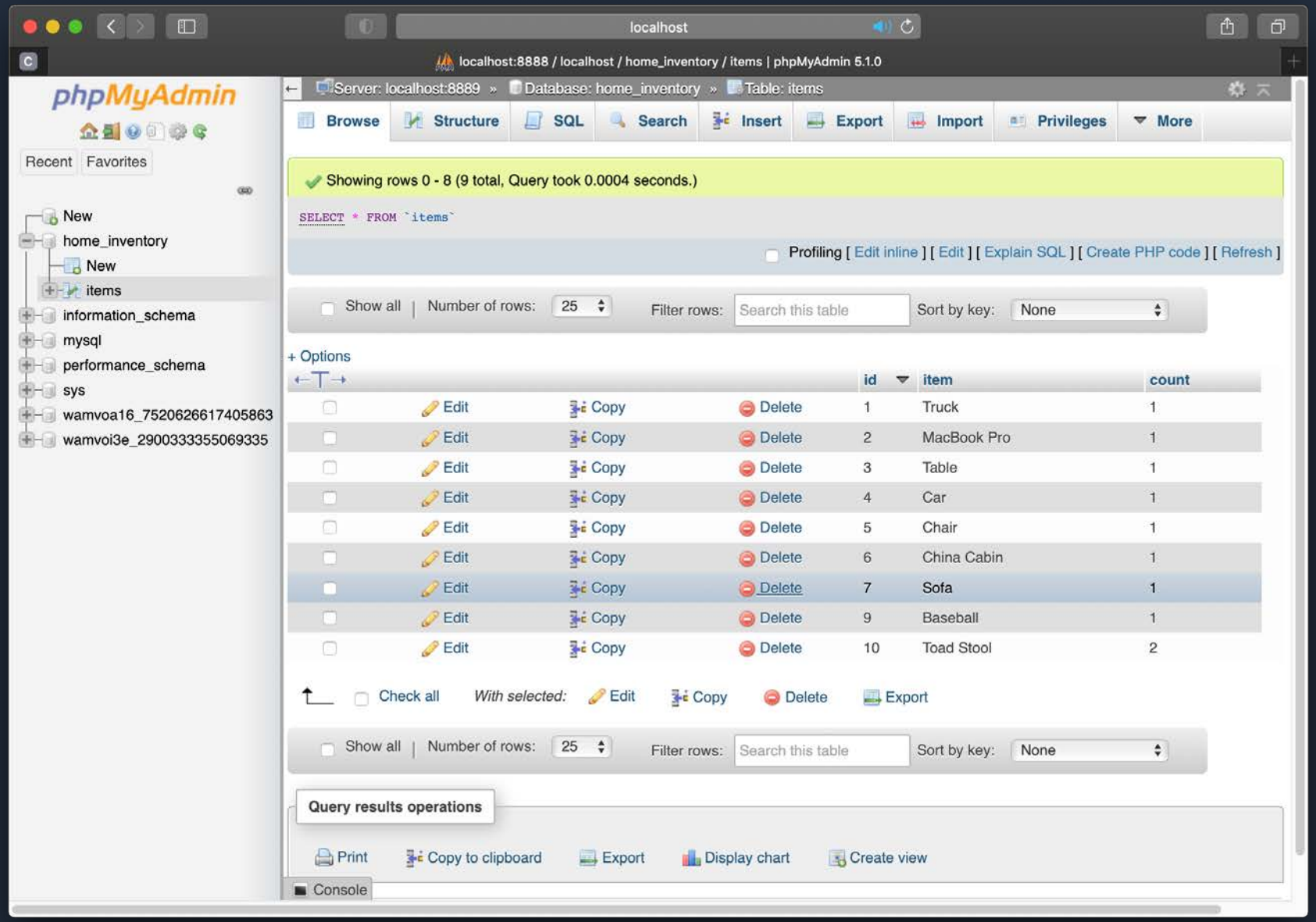
MAMP PRO (MacOS)



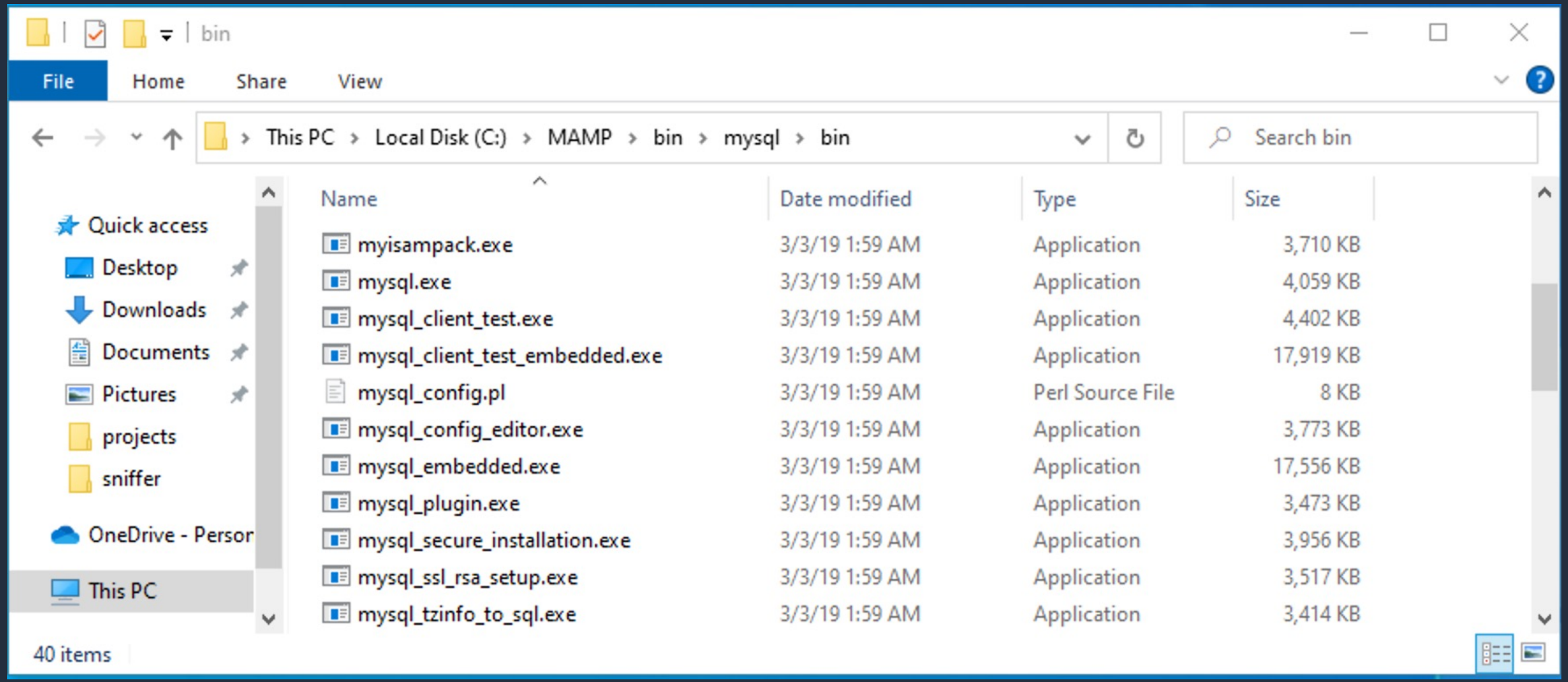
MAMP (Windows)



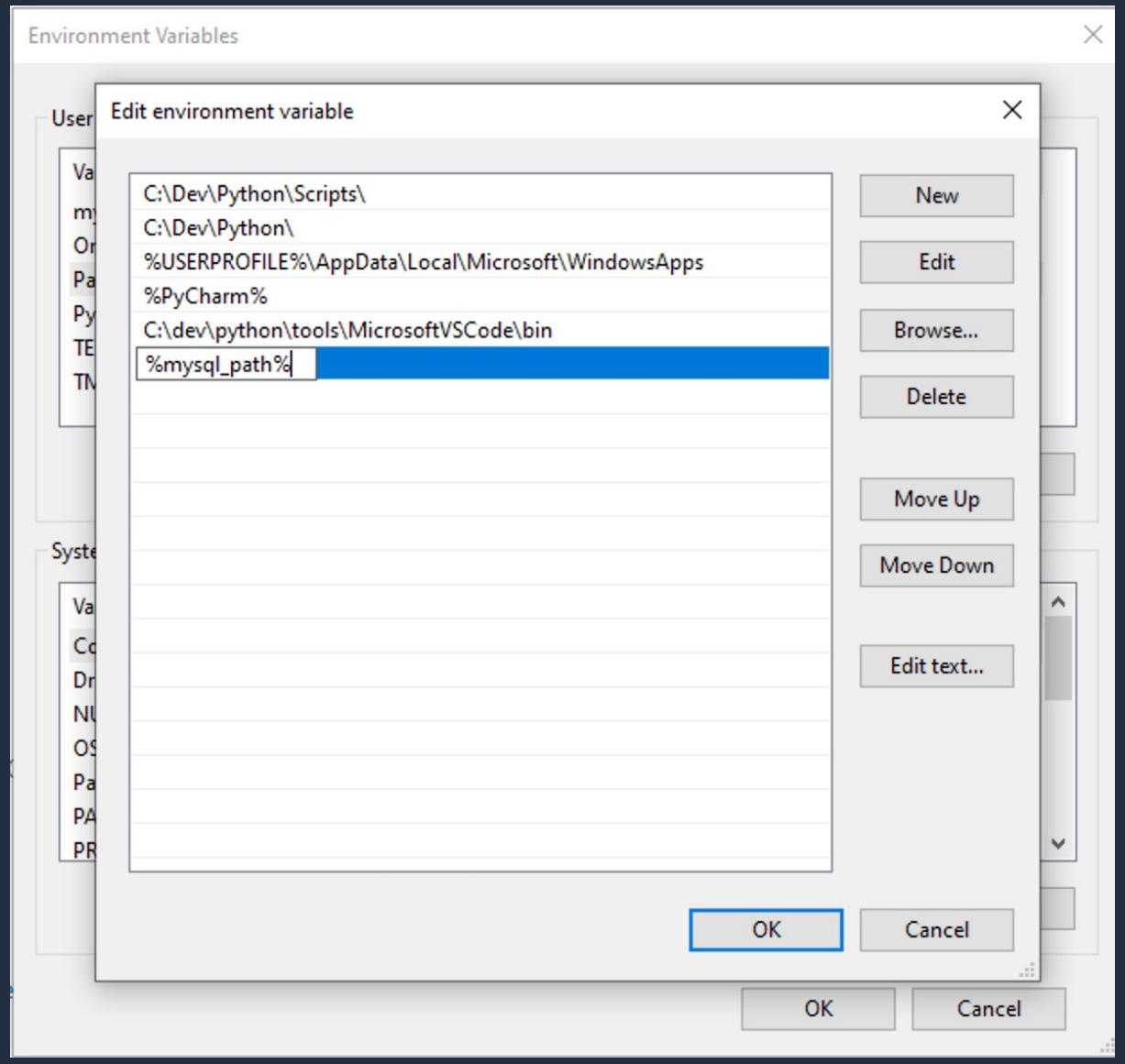
phpMyAdmin


localhost
localhost:8888 / localhost / home_inventory / items | phpMyAdmin 5.1.0
phpMyAdmin
Recent
Favorites
New
home_inventory
New
items
information_schema
mysql
performance_schema
sys
wamvoa16_7520626617405863
wamvoi3e_2900333355069335
Server: localhost:8889 » Database: home_inventory » Table: items
Browse
Structure
SQL
Search
Insert
Export
Import
Privileges
More
Showing rows 0 - 8 (9 total, Query took 0.0004 seconds.)
SELECT * FROM `items`
Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]
Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None
+ Options
id item count
Edit Copy Delete 1 Truck 1
Edit Copy Delete 2 MacBook Pro 1
Edit Copy Delete 3 Table 1
Edit Copy Delete 4 Car 1
Edit Copy Delete 5 Chair 1
Edit Copy Delete 6 China Cabin 1
Edit Copy Delete 7 Sofa 1
Edit Copy Delete 9 Baseball 1
Edit Copy Delete 10 Toad Stool 2
Check all With selected: Edit Copy Delete Export
Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None
Query results operations
Print Copy to clipboard Export Display chart Create view
Console

Copy Path to mysql.exe…



Add Path to Environment Variables



Try to connect…