

SPRING FRAMEWORK





SQL Beginner to Guru

MySQL Edition

Connecting to MySQL Overview



Types of Connections

- Local Connection
 - You're connecting to MySQL from the command line on the machine running MySQL
 - Protocol depends on your Operating System
- Remote / Client Connection
 - You're using some type of client software on the same machine running MySQL
 - OR Connecting to the MySQL Server from a different machine over the network





Client Protocols

- TCP/IP Most common
- SOCKET Unix/OSX/Linux Only
- PIPE Windows Only
- MEMORY Windows Only





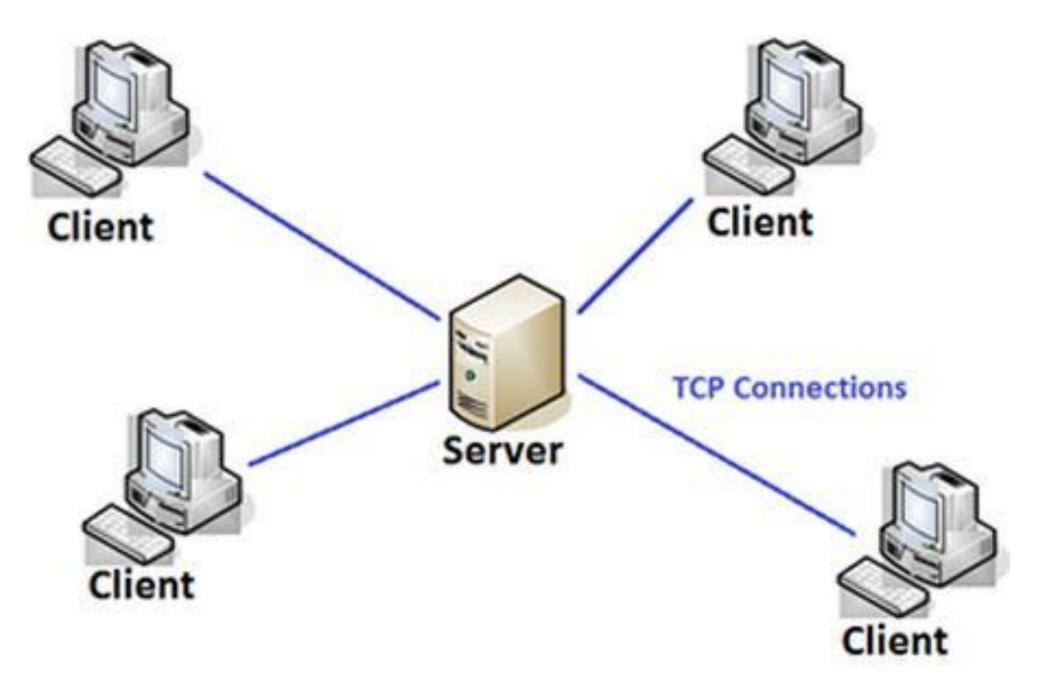
TCP / IP

- TCP / IP Transmission Control Protocol / Internet Protocol
- DNS Domain Name Service Associates an IP address with a human readable name
 - <u>google.com</u> = IP Address: 216.58.218.110
- "localhost" is the computer you are on. IP Address: 127.0.0.1
- A "port" is a logical connection endpoint of an IP Address.
- Ports range from 0 to 65535
- MySQL by default will connect on port 3306





MySQL Server - Server address 127.10.10.4; Clients Connecting on port 3306







Connecting to MySQL in this Course

- 'localhost' port 3306
- 127.0.0.1 port 3306
 - The host name 'localhost' will resolve to the IP Address 127.0.0.1





MySQL Command Line / MySQL Workbench

- From the operating system command line, we can use the program "mysql" to connect to the MySQL database.
- This is a client program for the command line which gives you a shell to interact with the database.
- MySQL Workbench is a graphical user interface for working with the MySQL database.
- The majority of the course work will be done with MySQL Workbench.





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