Terminology – Hardware

Client

Server

Connection

Terminology – Software

Client software
- MySQL Workbench
- phpMyAdmin

Server software
- Database Management System (DBMS)

Terminology – Database

A database is a collection of data
A.K.A. schema

DBMS

DB

DB

Database (Schema)

Tables
Views
Indexes

MySQL

A high quality, open source DBMS
- Easy to install
- Resource efficient
- Very good performance

Used by many companies and organizations
- http://www.mysql.com/customers/

MySQL Server Installation

Please see the notes and video at http://csns.calstatela.edu/wiki/content/cysun/course_materials/mysql
For CS122, installing a MySQL server is recommended but not required
CS3 Server

- A department server used for classes
- Host name: cs3.calstatela.edu
- Server Software: Apache, Tomcat, MySQL, PostgreSQL, Subversion
- More information at http://csns.calstatela.edu/wiki/content/cysun/course_materials/cs3

MySQL on CS3

- Version 5.1
- One database per user
  - DB name is the same as the server account user name. E.g. cs122stu31
  - Username and password are the same as the ones for the server account

Access MySQL on CS3

- http://csns.calstatela.edu/wiki/content/cysun/course_materials/cs3#MySQL
  - Command line client mysql
  - GUI client MySQL Workbench
  - Web client phpMyAdmin

Common Operations

- Change password
  - set password = password('new_password')

Lab 0. Using MySQL

- Create a table and populate the table with some data
- Observe the output of some queries