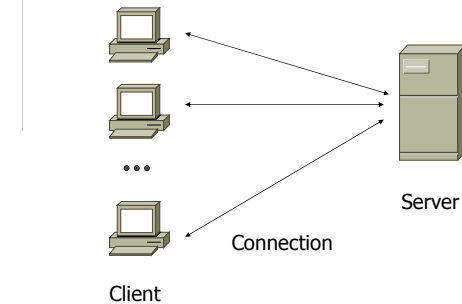


CS122 Using Relational Databases and SQL Using MySQL

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Terminology – Hardware

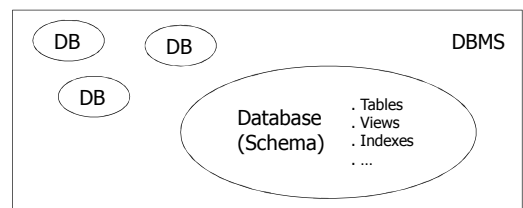


Terminology – Software

- ◆ Client software
 - MySQL Workbench
 - phpMyAdmin
- ◆ Server software
 - Database Management System (DBMS)

Terminology – Database

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



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