

# MySQL Course Resources

By discoveryvip



The world's most popular open source database

<https://www.mysql.com/>

**Link to phpmyadmin on your localhost**

<http://localhost/phpmyadmin/>

**Code Text Editor**

<http://brackets.io/>



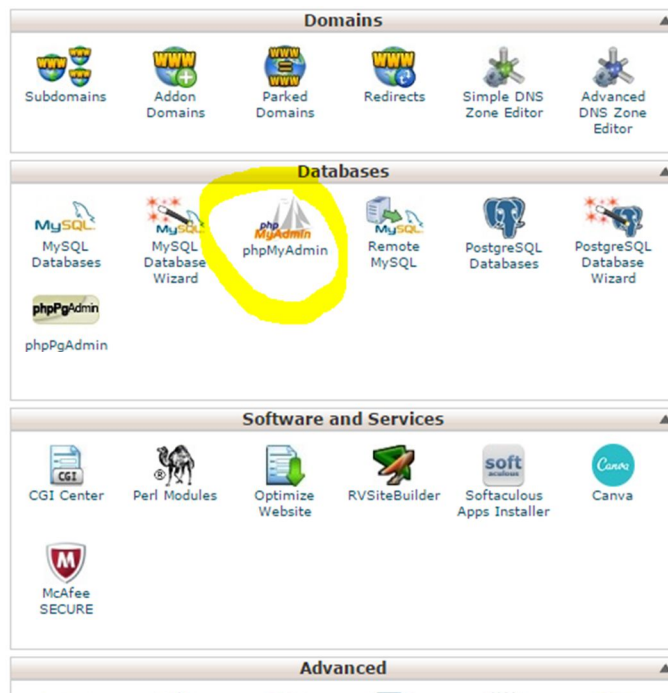
<https://www.apachefriends.org/index.html>

**XAMPP is the most popular PHP development environment**

**XAMPP is a completely free, easy to install Apache distribution containing MariaDB, PHP, and Perl. The XAMPP open source package has been set up to be incredibly easy to install and to use.**



<http://cpanel.com/demo/>



<http://phpmyadmin.net/>

Install options

<http://docs.phpmyadmin.net/en/latest/setup.html>

phpMyAdmin is a free software tool written in PHP, intended to handle the administration of MySQL over the Web. phpMyAdmin supports a wide range of operations on MySQL and MariaDB. Frequently used operations (managing databases, tables, columns, relations, indexes, users, permissions, etc) can be performed via the user interface, while you still have the ability to directly execute any SQL statement.

## Features

- Intuitive web interface
- Support for most MySQL features:
  - browse and drop databases, tables, views, fields and indexes
  - create, copy, drop, rename and alter databases, tables, fields and indexes
  - maintenance server, databases and tables, with proposals on server configuration

- execute, edit and bookmark any SQL-statement, even batch-queries
- manage MySQL user accounts and privileges
- manage stored procedures and triggers
- Import data from CSV and SQL
- Export data to various formats: CSV, SQL, XML, PDF, ISO/IEC 26300 - OpenDocument Text and Spreadsheet, Word, L<sup>A</sup>T<sub>E</sub>X and others
- Administering multiple servers
- Creating graphics of your database layout in various formats
- Creating complex queries using Query-by-example (QBE)
- Searching globally in a database or a subset of it
- Transforming stored data into any format using a set of predefined functions, like displaying BLOB-data as image or download-link
- And much more...

<https://en.wikipedia.org/wiki/PhpMyAdmin>

**phpMyAdmin** is a **free and open source tool** written in PHP intended to handle the administration of MySQL with the use of a web browser. It can perform various tasks such as creating, modifying or deleting databases, tables, fields or rows; executing SQL statements; or managing users and permissions.

## MYSQL User Interfaces

<https://en.wikipedia.org/wiki/MySQL>

### Graphical user interfaces

A graphical user interface (GUI) is a type of interface that allows users to interact with electronic devices or programs through graphical icons and visual indicators such as secondary notation, as opposed to text-based interfaces, typed command labels or text navigation. GUIs are easier to learn than command-line interfaces (CLIs),[4][5][6] which require commands to be typed on the keyboard.

Third-party proprietary and free graphical administration applications (or "front ends") are available that integrate with MySQL and enable users to work with database structure and data visually. Some well-known front ends are:

#### MySQL Workbench

MySQL Workbench is the official integrated environment for MySQL. It was developed by MySQL AB, and enables users to graphically administer MySQL databases and visually design database structures. MySQL Workbench replaces the previous package of software, MySQL GUI Tools. Similar to other third-party packages, but still considered the authoritative MySQL front end, MySQL Workbench lets users manage database design & modeling, SQL development (replacing MySQL Query Browser) and Database administration (replacing MySQL Administrator).

MySQL Workbench is available in two editions, the regular free and open source Community Edition which may be downloaded from the MySQL website, and the proprietary *Standard Edition* which extends and improves the feature set of the Community Edition.

#### Adminer

[Adminer](#) (formerly known as phpMinAdmin) is a free MySQL front end for managing content in MySQL databases (since version 2, it also works on PostgreSQL, MS SQL, SQLite and Oracle SQL databases). Adminer is distributed under the Apache license (or GPL v2) in the form of a single PHP file (around 300 KiB in size), and is capable of managing multiple databases, with many CSS skins available. Its author is Jakub Vrána who started to develop this tool as a light-weight alternative to phpMyAdmin, in July 2007.

### **Database Workbench**

[Database Workbench](#) is a software application for development and administration of multiple relational databases using SQL, with interoperability between different database systems, developed by Upscene Productions.

Because Databases Workbench supports multiple database systems, it can provide software developers with the same interface and development environment for these otherwise different database systems and also includes cross database tools.

Database Workbench supports the following relational databases: Oracle Database, Microsoft SQL Server, SQL Anywhere, Firebird, NexusDB, InterBase, MySQL and MariaDB. Database Workbench 5 runs on 32-bit or 64 bit Windows platforms. Under Linux, FreeBSD or Mac OS X Database Workbench can operate using Wine.

### **DBEdit**

[DBEdit](#) is a database editor, which can connect to an Oracle, DB2, MySQL and any database that provides a JDBC driver. It runs on Windows, Linux and Solaris. DBEdit is free and open source software and distributed under the GNU General Public License. The source code is hosted on SourceForge.

### **HeidiSQL**

[HeidiSQL](#), previously known as MySQL-Front, is a free and open source client, or frontend for MySQL (and for its forks like MariaDB and Percona Server, Microsoft SQL Server and PostgreSQL). HeidiSQL is developed by German programmer Ansgar Becker and a few other contributors in Delphi. To manage databases with HeidiSQL, users must login to a local or remote MySQL server with acceptable credentials, creating a session. Within this session users may manage MySQL Databases within the connected MySQL server, disconnecting from the server when done. Its feature set is sufficient for most common and advanced database, table and data record operations but remains in active development to move towards the full functionality expected in a MySQL Frontend.

### **LibreOffice Base**

[LibreOffice](#) Base allows the creation and management of databases, preparation of forms and reports that provide end users easy access to data. Like [Microsoft Access](#), it can be used as a front-end for various database systems, including Access databases (JET), ODBC data sources, and MySQL or [PostgreSQL](#) <sup>[89]</sup>

### **Navicat**

[Navicat](#) is a series of graphical database management and development software produced by PremiumSoft CyberTech Ltd. for MySQL, MariaDB, Oracle, SQLite, PostgreSQL and Microsoft SQL Server. It has an Explorer-like graphical user interface and supports multiple database connections for local and remote databases. Its design is made to meet the needs of a variety of audiences, from database administrators and programmers to various businesses/companies that serve clients and share information with partners.

Navicat is a cross-platform tool and works on Microsoft Windows, OS X and Linux platforms. Upon purchase, users are able to select a language for the software from eight available languages: English, French, German, Spanish, Japanese, Polish, Simplified Chinese and Traditional Chinese.

### **OpenOffice.org**

[OpenOffice.org Base](#) is freely available and can manage MySQL databases if the entire suite is installed.

### **phpMyAdmin**

[phpMyAdmin](#) is a free and open source tool written in PHP intended to handle the administration of MySQL with the use of a web browser. It can perform various tasks such as creating, modifying or deleting databases, tables, fields or rows; executing SQL statements; or managing users and permissions. The software, which is currently available in 78 languages,<sup>[90]</sup> is maintained by *The phpMyAdmin Project*.<sup>[91]</sup>

It can import data from CSV and SQL, and transform stored data into any format using a set of predefined functions, like displaying BLOB-data as images or download-links.

### **SQLBuddy**

[SQLBuddy](#) is an open source web based application written in PHP intended to handle the administration of MySQL and SQLite with the use of a Web browser. The project places an emphasis on ease of installation and a simple user interface.

### **SQLyog**

[SQLyog](#) is a GUI tool available in free as well as paid versions. Data manipulations (e.g., insert, update, and delete) may be done from a spreadsheet-like interface. Its editor has syntax highlighting and various automatic formatting options. Both raw table data and a result set from a query can be manipulated. Its data search feature uses Google-like search syntax and translates to SQL transparently for the user. It has a backup tool for performing unattended backups. Backups may be compressed and optionally stored as a file-per-table as well as identified with a timestamp.

### **Toad for MySQL**

[Toad for MySQL](#) is a software application from Dell Software that database developers, database administrators and data analysts use to manage both relational and non-relational databases using SQL. Toad supports many databases and environments. It runs on all 32-bit/64-bit Windows platforms, including Microsoft Windows Server, Windows XP, Windows Vista, Windows 7 and 8 (32-Bit or 64-Bit). Dell Software has also released a Toad Mac Edition. Dell provides Toad in commercial and trial/freeware versions. The Freeware version is available from the ToadWorld.com community.

### **Webmin**

[Webmin](#) is a web-based system configuration tool for Unix-like systems, although recent versions can also be installed and run on Windows. With it, it is possible to configure operating system internals, such as users, disk quotas, services or configuration files, as well as modify and control open source apps, such as the Apache HTTP Server, PHP or MySQL. Webmin is largely based on Perl, running as its own process and web server. It defaults to TCP port 10000 for communicating, and can be configured to use SSL if OpenSSL is installed with additional required Perl Modules.

It is built around modules, which have an interface to the configuration files and the Webmin server. This makes it easy to add new functionality. Due to Webmin's modular design, it is possible for anyone who is interested to write plugins for desktop configuration.

Webmin also allows for controlling many machines through a single interface, or seamless login on other webmin hosts on the same subnet or LAN.

### **MYSQL Cheat Sheet**

<http://overapi.com/mysql/>

### **Cheatsheets**

[http://overapi.com/static/cs/MySQL\\_QuickRef.pdf](http://overapi.com/static/cs/MySQL_QuickRef.pdf)

[http://overapi.com/static/cs/mysql\\_cheat\\_sheet.pdf](http://overapi.com/static/cs/mysql_cheat_sheet.pdf)