



# MySQL in DB Universe::

MySQL is a [relational database management system \(RDBMS\)](#) that is free, open-source, and uses various proprietary licenses, including GNU General Public License (GPL). As an RDBMS, MySQL uses SQL to manage data inside a database. It organizes correlated data into one or more data tables, and this correlation helps structure the data.

## What Is MySQL?

MySQL is normally accessed using SQL, it is often used with other programs as a component of various technology stacks, including LAMP (Linux, Apache, MySQL, and Perl/PHP/Python). As a result, several web applications that require relational database capabilities run on databases that use MySQL, including Drupal, Joomla, phpBB, and WordPress.

MySQL powers many of the most accessed applications, including [Facebook](#), [Flickr](#), [Twitter](#), [YouTube](#), [Netflix](#), [Uber](#), [Airbnb](#), [Shopify](#), and [Booking.com](#). Since MySQL is open source, it includes numerous features developed in close cooperation with users over more than 25 years.

### Hardware Requirements

MySQL requires a current system to run smoothly. The minimum hardware requirements are:

- CPU: Intel Core or Xeon 3GHz (or Dual Core 2GHz) or equal AMD CPU
- Cores: Single (Dual/Quad Core is recommended)
- RAM: 4 GB (6 GB recommended)
- Graphic Accelerators: nVidia or ATI with support of OpenGL 1.5 or higher
- Display Resolution: 1280×1024 is recommended, 1024×768 is minimum.

### Software Requirements

The following operating systems are officially supported:

- Windows 7 (64-bit, Professional level or higher)
- Mac OS X 10.6.1+
- Ubuntu 9.10 (64bit)
- Ubuntu 8.04 (32bit/64bit)

# Fast, Secure HTTPS Access for your MySQL Data

Available for your MySQL HeatWave instances and On-Premise MySQL Solutions

## RESTful Web Services

- Auto REST for tables, views and procedures
- {JSON} responses
- Paged results
- Developer support (GUI, CLI, API)

## MySQL Shell for VS Code

- GUI frontend for MRS management
- RESTful Web Service creation
- Interactive documentation
- CLI & scripting support

## Built in User Management

- Support for popular OAuth2 services
- Use Role, Group & Hierarchy Management
- User management GUI
- CLI & scripting support

Why Popular?	<p>Although the database management industry is dominated by technology behemoths like Microsoft, Oracle, and IBM, free and open-source database management systems (DBMSs) such as Apache Cassandra, PostgreSQL, and MySQL remain highly competitive.</p> <ul style="list-style-type: none"><li>• Easy To Use.</li><li>• Secure</li><li>• High Performance</li><li>• Industry Standard</li></ul>
Enhancing Performance	<p>Today, almost every open-source web application uses MySQL. It's compatible with every hosting provider and is extremely easy to use. But, if your web application or e-commerce website is performing poorly, here are three performance hacks you should try.</p> <ul style="list-style-type: none"><li>• Performance Fine-Tuning</li><li>• Security Audits</li><li>• Queries Optimization</li></ul>
Advantages	<ul style="list-style-type: none"><li>• Open Source</li><li>• Data Security</li><li>• Scalability On Demand</li><li>• Higher Efficiency</li><li>• 24x7 Server Uptime</li><li>• Complete Transactional Support</li><li>• Comprehensive Workflow Control</li><li>• Lower Total Cost Of Ownership (TCO)</li></ul>