MySQL

The MySQL Enterprise Edition includes the most comprehensive set of MySQL production, backup, monitoring, modeling, development, and administration tools so businesses can achieve the highest levels of reliability, security, and uptime.

THE WORLD'S MOST POPULAR
OPEN SOURCE DATABASE

HIGHLIGHTS
- MySQL Database
- MySQL Enterprise Backup
- MySQL Enterprise Monitor
- MySQL Query Analyzer
- MySQL Workbench
- 140+ MySQL Advisor Rules
- 600+ Monitored Variables
- 30+ Performance Graphs

"With the MySQL Query Analyzer, we were able to identify and analyze problematic SQL code, and triple our database performance. More importantly, we were able to accomplish this in three days, rather than taking weeks."

—Keith Souhrada,
Software Development Engineer,
Big Fish Games

MySQL Enterprise Edition reduces the risk, cost, and time required in developing, deploying, and managing business-critical MySQL applications. Only MySQL Enterprise Edition enables you to:

- **Maximize uptime** with comprehensive backup, monitoring and administration tools
- **Reduce risk of data loss** with MySQL Enterprise Backup for hot backup and recovery
- **Simplify database monitoring and administration** with the MySQL Enterprise Monitor
- **Gain visibility** into the health and SQL activity of databases with MySQL Enterprise Monitor
- **Implement MySQL best practices** using more than 140 MySQL advisor rules
- **Improve application performance** with the MySQL Query Analyzer feature
- **Rapidly develop database applications** with MySQL Workbench

MySQL Database

MySQL is the world's most popular open source database for cost-effectively delivering reliable, high-performance and scalable e-commerce, online transaction processing, and embedded database applications. It is an integrated, transaction safe, ACID–compliant database with full commit, rollback, crash recovery, and row-level locking capabilities. MySQL delivers the ease of use, scalability, and high performance, as well as a full suite of database drivers and visual tools to help developers and DBAs build and manage their MySQL applications.

The MySQL Database provides the following features:

- **Replication** to improve scalability and performance of high-volume applications
- **Partitioning** to improve performance and simplify management of very large database environments
- **Stored procedures** to increase developer productivity
- **Triggers** to enforce complex business rules at the database level
- **Views** to reduce the complexity of data while increasing security
- **Information schema** to provide easy access to metadata
- **Pluggable storage engine** architecture for maximum flexibility

MySQL Enterprise Backup

MySQL Enterprise Backup performs online "Hot" backups of your MySQL databases. You get a consistent backup copy of your database to recover your data to a precise point in time. In addition, MySQL Enterprise Backup supports creating compressed backup files, and performing backups of subsets of InnoDB tables. Compression typically reduces backup size up to 90% when compared with the size of actual database files, helping to reduce storage costs. In conjunction with the MySQL binlog, users can perform point in time recovery.

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MySQL Enterprise Monitor

The MySQL Enterprise Monitor provides at-a-glance views of the health of your MySQL databases. It continuously monitors your MySQL servers and alerts you to potential problems before they impact your system. It's like having a "virtual DBA" assistant at your side to recommend best practices and eliminate security vulnerabilities, improve replication, and optimize performance. As a result, DBAs and system administrators can manage more servers in less time.
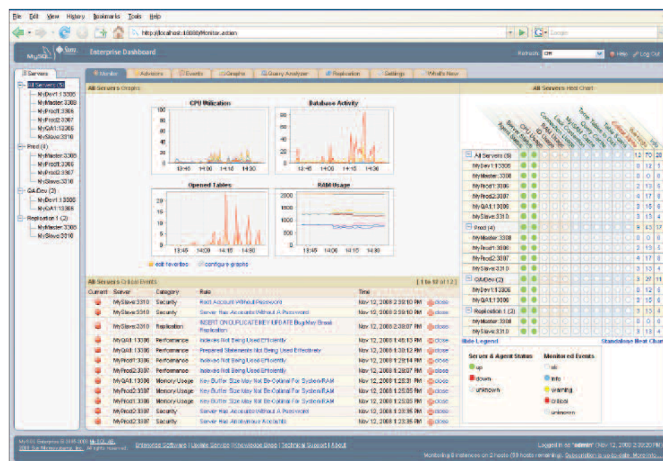

Figure 1. The MySQL Enterprise Monitor provides an at-a-glance view of the health of your MySQL databases.

MySQL Replication Monitor

The MySQL Replication Monitor provides real-time replication health and status checks on master/slave performance and latency issues.

MySQL Advisors

The MySQL Enterprise Monitor includes more than 140 MySQL advisor rules that monitor more than 600 MySQL and operating system−specific variables to help you automatically enforce MySQL-recommended database best practices. They deliver expert advice that come straight from the database professionals who build the MySQL database. The advisors provide tailored step-by-step instructions to solve specific problems.

The MySQL Enterprise Monitor includes the following:

· **Upgrade Advisor -** Monitors and advises you on using the most up-to-date version of MySQL.

· **Administration Advisor -** Enforces DBA best practices to prevent costly outages.

· **Security Advisor** - Minimizes exposure to security vulnerabilities.

· **Replication Advisor** - Recommends solutions for replication setup and performance improvements.

· **Schema Advisor** - Assists in uncovering database design issues that reduce performance.

· **Performance Advisor** - Recommends changes to boost database performance.

· **Memory Usage Advisor** - Monitors dynamic memory-related server metrics and recommends configuration changes to improve performance.

· **Custom Advisor -** Enables you to create custom best practice rules tailored to your needs.

MySQL Query Analyzer

The MySQL Query Analyzer helps developers and DBAs improve application performance by monitoring queries and accurately pinpointing SQL code that is causing a slow down. With the new MySQL Connector Plug-ins, performance of Java and Microsoft .NET applications can be optimized

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more efficiently by communicating directly with the MySQL Query Analyzer.

Queries are presented in an aggregated view across all MySQL servers so DBAs and developers can filter for specific query problems and analyze their most expensive code. With the MySQL Query Analyzer, DBAs can improve the SQL code during active development and continuously monitor and tune the queries in production.
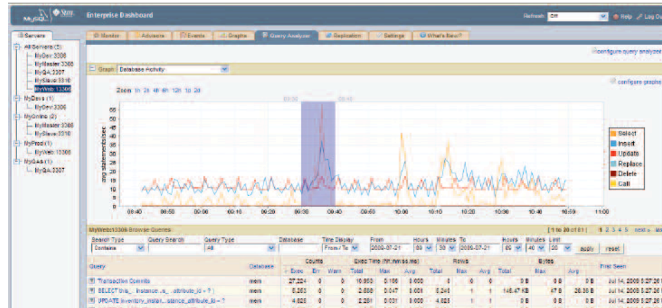

Figure 2. The MySQL Query Analyzer, with the correlation graphs, allows DBAs and developers to filter and analyze problem queries by highlighting the time frame of interest.

MySQL Workbench

MySQL Workbench is a unified visual tool that enables developers, DBAs, and data architects to design, develop, and administer database applications. MySQL Workbench includes advanced data modeling capabilities, a visual SQL editor and comprehensive administration tools for database design, query development, server configuration and user administration.
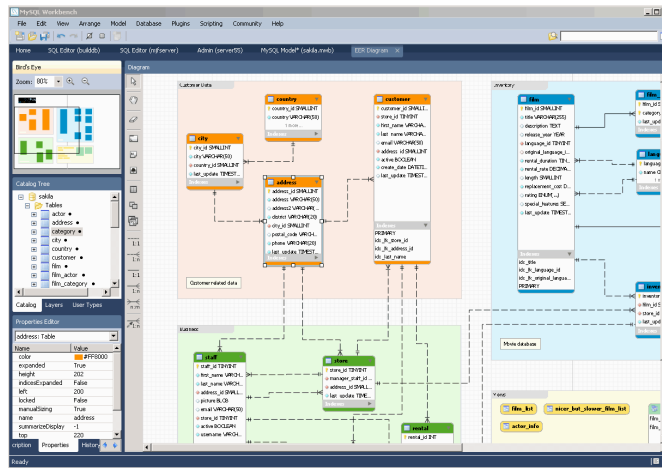

Figure 3. MySQL Workbench provides data modeling, SQL development, and administration tools.

MySQL Editions

MySQL is available in 4 commercial editions:

- MySQL Enterprise Edition
- MySQL Standard Edition
- MySQL Classic Edition
- MySQL Cluster Carrier Grade Edition

To learn more, go to mysql.com/products.

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About MySQL

MySQL is the world's most popular open source database software. Many of the world's largest and fastest-growing organizations use MySQL to save time and money powering their high-volume Websites, business-critical systems, and packaged software—including industry leaders such as Yahoo!, Google, Alcatel-Lucent, Nokia, YouTube, and Zappos.com.

Partial List of MySQL Customers		
Web/End-User Customers	Embedded/ISV Customers	Telecom Customers
• Amazon.com	• Adobe	• Alcatel-Lucent
• The Associated Press	• Airbus	• AT&T Wireless
• Bank of America	• BioRad	• British Telecom
• Caterpillar	• CA NetQoS	• Cisco
• Craigslist	• Checkpoint	• Comcast
• DaimlerChrysler	• Dell Kace	• Cox Communications
• Dow Jones	• Eastman Kodak	• Ericsson
• Disney	• F5 Networks	• France Telecom
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• Mixi.jp	• Quest	• Nextel
• NASA	• Sage Group	• Nokia
• Southwest Airlines	• SAP BusinessObjects	• Nortel
• UPS	• SAS	• Paggo
• US Dept. of Defense	• Scholastic	• ShoreTel
• Wells Fargo	• SonicWALL	• Siemens
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• YouTube	• Symantec	• UTStarcom
• Zappos	• Trend Micro	• Virgin Mobile

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For more information about MySQL Enterprise Edition, visit mysql.com/enterprise.

For more information about MySQL Support, Training and Consulting, visit mysql.com/services.

To contact MySQL online or via telephone, visit mysql.com/contact.

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