

Jet Profiler for MySQL

is a real-time query performance and diagnostics tool for the MySQL database server. Its core features:



- Query, table and user performance
- Graphical visualisation
- Low overhead
- User friendly



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Query, table and user performance

Jet Profiler focuses on queries, tables and users. This gives you the information you need in order to quickly fix performance problems in your code, such as most frequent queries, most used tables or the busiest users.

Graphical visualisation

Data is collected, analyzed and displayed in real-time in diagrams, pie charts and tables. The graphical layout allows you to easily drill down and navigate your way through the vital data.

Low overhead

Most of the profiling work is done in the Jet Profiler application, not in the database server. Therefore, the performance hit is normally negligible, around 1%.

User friendly

It supports all MySQL versions. No database server changes are necessary. No agents or separate services are needed. Jet Profiler is a desktop application which runs on your computer. You start it, connect to a server, hit the record button and you can review the results in minutes. Jet Profiler runs on Windows, Mac and Linux.

Jet Profiler is a great tool to pinpoint performance problems in MySQL databases.

VIEW 1-MINUTE DEMO:

Features

- **Top Queries** - See which queries are being run the most on your server.
- **Top Users** - See which users are using your server the most.
- **Top Tables** - See which database tables are opened the most.
- **Top States** - See which states your database is most busy doing, such as creating temp tables.
- **Replication Profiling** - You can measure how much capacity you have left on the replication SQL thread on slaves. If you are using MyISAM a lot, a lock analysis will help discover any locks associated with replication.
- **Master and Slave statistics** - See how many threads are working on your masters and slaves. Find I/O or SQL bottlenecks.
- **MyISAM Lock Analysis** - You can view which queries cause the most amount of MyISAM locking. This can be used to minimize replication lag and lock contention on busy tables.
- **Query Ratings** - You can get your queries rated and see which queries are most likely to cause load due to missing indices, big tables and more.
- **Query Visualization** - The query execution plan can be visualized using EXPLAIN. A diagram shows the table lookups involved, the rating and join size.
- **Slow Queries** - See the slowest queries per time interval.
- **Zoomable GUI** - You can easily zoom in on spikes in your load and see the corresponding queries for that time interval.
- **General Server Metrics** - Such as threads connected, network I/O, command statistics, handler statistics and more. 50+ metrics are recorded from the server.
- **Save / Load Support** - Save profiling data for later use, compare week to week or normal load vs high load situations.
- **Low Overhead** - Running the tool against your database typically costs around 1%. Recording granularity customizable.

- **Supports all MySQL Versions** - Works on 3.x (!), 4.0, 4.1, 5.0, 5.1 and 6.0, Enterprise and Community editions.
- **Works on Windows, Mac and Linux**
- **No Server Changes**
- **Simple Setup**
- **Free / Professional Version** - The free version doesn't cost anything and isn't time limited. Upgrade to the professional version to get all features.

Screenshots



Top Queries

The screenshot shows a sequence of 8 minutes of test load, with peaks every 90 seconds. The upper line chart diagram shows **Threads**, number of total connected threads in light blue and number of running threads (executing queries) in dark blue. The red area indicates how many slow queries are running. The **Top Queries** table shows which queries are most frequently observed along with a rating based on EXPLAIN. This view is the most important tool to find the worst performing queries.



Top Users

This screenshot shows a comparison of the different users. Both the line chart and pie chart

diagrams indicate that the **heavybid** user is the most frequent user. If running in a multi-user environment, this can be a quick way to determine if a particular user is overrepresented.



Top Tables

This view, **Top Tables**, shows what tables are used most frequently. The table **heavybidder.us** from our test application causes about 40% of the load. Sometimes, this can be the best way to determine which parts of the database are worst performing - tables lacking proper indices.



Query ratings

The **Explain Dialog** shows a visualization of the query execution plan. A query rating shows if the query is well written and uses indices correctly. You can edit the query and rerun the EXPLAIN command to see if you can improve it.

{jcomments on}