

# Solutions for MySQL and MariaDB

## COMPREHENSIVE DEVELOPMENT, ADMINISTRATION, DIAGNOSTICS, AND PERFORMANCE TUNING FOR MYSQL AND MARIADB

To help address these dynamics, IDERA provides products to ease the burden of organizations managing complex database environments and to simplify data governance. Create useful data models, quickly roll out and report on database changes, proactively manage instances, and streamline SQL code. IDERA has seven products to address these environment challenges: ER/Studio Data Architect, Aqua Data Studio, Rapid SQL, SQL Diagnostic Manager for MySQL, DBArtisan, SQLyog, and Uptime Infrastructure Monitor.

### KEY USE CASES

#### Manage and secure databases

- Proactively manage space, data, and performance with built-in analytics
- Readily find and fix performance issues using intelligent diagnostics
- Move schema and table data across different platforms with ease
- Protect data security with view, grant, and revoke of permissions
- Plan future capacity and pinpoint space-related exceptions

#### Administer databases with extensive toolbox

- Synchronize schema and data
- Backup with compression and scheduling
- Autocomplete and format SQL code, and profile queries
- Search data, optimize schema, and analyze indexes
- Visually design schema, compare data, and build queries

#### Design and manage databases, and visually analyze data

- Graphically create and execute SQL queries
- Access and alter query data effortlessly with a convenient table data editor
- Create visualizations to analyze data with an easy-to-use drag-and-drop interface
- Compare and synchronize data and schema from the same and different databases
- Develop and debug scripts to automate routine database operations

#### Create and manage data models

- Build data models as part of a development cycle
- Discover and document existing assets across the data landscape
- Create and populate data warehouses
- Construct enterprise data models
- Catalog metadata for data governance and data quality initiatives

#### Monitor database performance

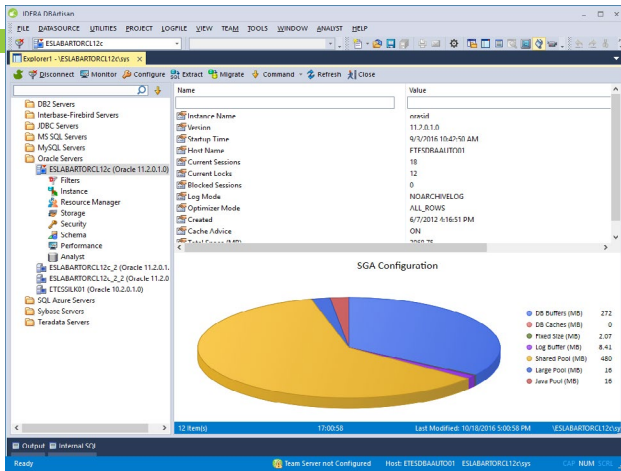
- Monitor in real-time agentless to take corrective action and resolve significant issues
- Track and compare changes to configuration files to fix performance issues
- Monitor, alert to, and kill locked and long-running SQL queries in real-time
- Monitor Amazon RDS including operating systems and file-based logs
- Find the top 10 SQL queries across servers based on total execution time

#### Develop high-performing SQL code

- Create high-performance SQL code
- Easily build complex SQL statements with visual query builder
- Efficiently construct, analyze, and execute SQL code with code analyst
- Simplify debugging SQL code, functions, and stored procedures
- Collaborate effectively across development teams with version control

#### Monitor IT infrastructure performance

- Monitor and alert on availability and performance of database host servers
- View detailed internal performance information from database servers
- Verify that database processes are present and performing on database servers
- Monitor availability of database replication status
- Convert database tables to partitioned tables for better performance and management



## DBArtisan

Manage multiple platforms with one interface

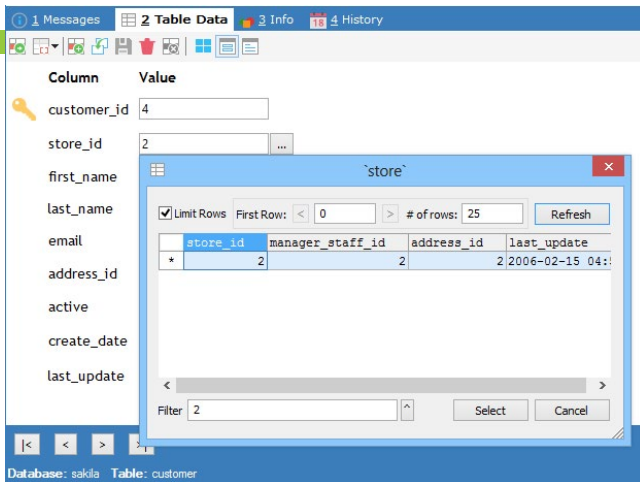
DBArtisan is an intuitive database administration solution that uses integrated analytics to maximize availability, performance, security, and collaboration. Unlike its competition, it provides a wizard for schema and data migration across platforms, database security management with management of permissions at object-level, a performance analyst tool, and a common user interface to manage multiple database platforms.

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“DBArtisan is a very helpful and efficient tool because it helps us examine data relationships and generate information more quickly. It is DBArtisan all the way for me.”

*Manon Tremblay, IT Consultant, dir systèmes (small business, professional services, Canada) [IDERA case study](#)*



## SQLyog

Manage databases with most complete and easy-to-use MySQL GUI

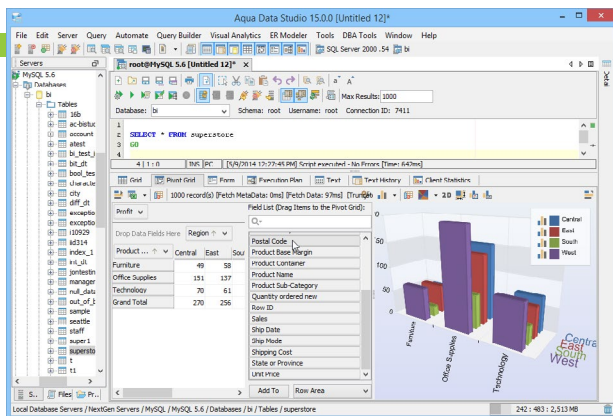
SQLyog helps database administrators to manage MySQL and MariaDB in physical, virtual, and cloud environments. Unlike its competition, it provides extensive database administration and development support including backup wizard and scheduling, query templates, code snippets, and abbreviations. It also provides SQL synchronization and alter script to apply database changes, SJA parameters and SJA XML schema, and database visual data compare.

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“SQLyog is the best database management tool I have ever used.”

*Justin Hubbard, President and Chief Executive Officer, Smack3 Studios, USA*



## Aqua Data Studio

Universal database IDE

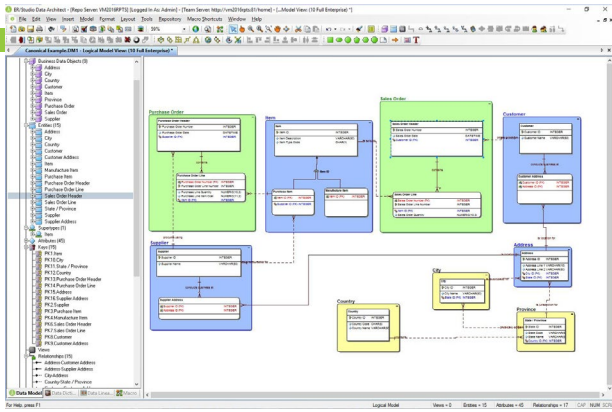
Aqua Data Studio is a versatile integrated development environment that includes data management and visual analytics for relational, cloud, and NoSQL databases. Unlike its competition, it provides a unique combination of a full-featured database IDE and visual analytics, the broadest range of native data sources, and versatile import and export. It also provides advanced SQL query development and optimization, extensive comparison of databases and data, and powerful team collaboration.

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“Aqua Data Studio is just the best tool in existence. It gives me great pleasure to use it.”

*Jared Rypka-Hauer, Application Developer, Continuum Media Group LLC (large enterprise, computer software, USA) [TVID C3B-6EE-2CI](#)*



## ER/Studio Data Architect

**Model, analyze, and optimize enterprise data**

ER/Studio Data Architect is a powerful data modeling tool that enables organizations to discover, document, and re-use data assets across logical and physical models for multiple platforms. Unlike its competition, it provides the broadest range of data platform support, industry-leading enterprise-level capabilities, and visual data lineage and flow modeling. It also provides full dimensional modeling for data warehousing and business intelligence, and business data objects to bridge the gap between developers and data architects.

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“ER/Studio provides us with a robust method for creating data models and the ability to generate physical data models easily when changes are required.”

*Roger Pearson IT Director for Smith & Nephew  
(large enterprise, healthcare, United Kingdom) [TVID 499-DB4-8E1](#)*

The screenshot shows the SQL Diagnostic Manager for MySQL interface. At the top, there is a dashboard with four key metrics: 20 Total Servers, 0 Servers Down, 368 Critical Alerts, and 195 Warnings. Below the dashboard is a table of SQL queries with columns for COUNT, TOTAL TIME, and AVAILABILITY. The table lists various SQL queries and their performance metrics.

SQL Query	COUNT	TOTAL TIME	AVAILABILITY
SELECT * FROM (SELECT 'Signal AS 'Signal', SCHEMA_NAME AS 'DB', 'Signal' AS 'Query', 'Count' AS 'Count', 'Time' AS 'Time') AS 'Signal'	9M	0165.07.01.000	00.132
SELECT COUNT(*) FROM mysql.innodb_history_20160101 WHERE ACTION = 'GROUP BY' AND 'action_timestamp' IS NOT NULL	568K	19.26.43.000	00.124
SELECT ?	11M	11.07.25.000	00.004
SELECT performance_schema.events_waits_summary_global_by_event_name	472K	06.30.33.000	00.061
SHOW GLOBAL VARIABLES LIKE ?	115K	04.32.08.000	00.142
SHOW OPEN TABLES	7M	04.29.51.000	00.002
SELECT COUNT(*) AS 'count' FROM performance_schema.events_statements_summary_by_digest	6M	03.01.06.000	00.003
SELECT * FROM information_schema.plugins	7M	02.44.58.000	00.001
SHOW GLOBAL VARIABLES	8M	02.26.30.000	00.001
SHOW FULL PROCESLIST	41M	01.03.38.000	0

## SQL Diagnostic Manager for MySQL

**Monitor MySQL and MariaDB performance in real-time**

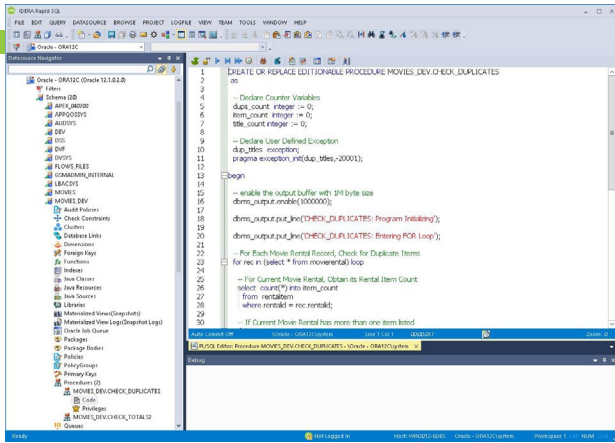
SQL Diagnostic Manager for MySQL is an agentless monitoring application that proactively identifies issues affecting database performance, security, and downtime. Unlike its competition, it provides agentless monitoring with no additional load on servers, custom monitors, customizable dashboard and charts, and display of top 10 problematic SQL queries across servers. It also provides real-time monitoring of locked and long-running SQL queries, over 600 monitors and advisors, and analysis of configuration changes.

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“With SQL Diagnostic Manager for MySQL, we are fast and efficient in tracking down issues leading to a greater end-user satisfaction.”

*Wayne Lansdowne, IT Architect at Applied Innovations  
(small business, telecommunications services, USA, 100 to 499 MySQL databases) [TVID 7D9-6C2-EB7](#)*



## Rapid SQL

### Create high-performing SQL code

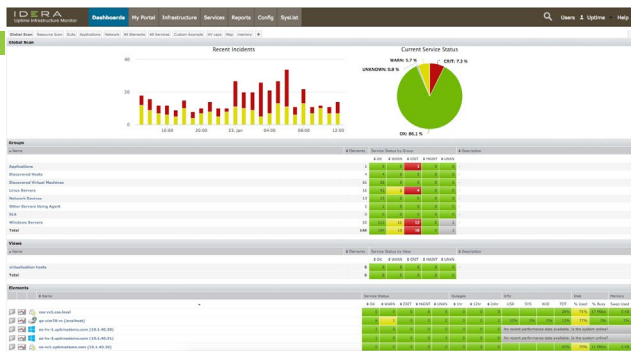
Rapid SQL is an intelligent, integrated development environment for SQL. It empowers database developers and database administrators to create high-performing SQL code. Unlike its competition, it provides efficient debugging of stored procedures and functions to eliminate coding errors, and the integrated code analyst to perform detailed response time analysis on the execution of stored procedures and functions.

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“Rapid SQL has definitely bailed us out several times. It is phenomenal because it saves time and is cost-effective for us. Ultimately, it gives us the ability to increase our services and generate new business.”

*Richard Baroniunas, Chief Developer and Owner, Baron Software (small business, computer services, USA) [IDERA case study](#)*



## Uptime Infrastructure Monitor

### Unify IT performance monitoring and optimization

Uptime Infrastructure Monitor helps IT administrators to unify performance monitoring and optimization of IT infrastructure. It is a flexible server monitoring tool that proactively monitors physical servers, virtual machines, network devices, applications, and services running on-premises, remotely, and in the cloud. Unlike its competition, it provides monitoring of a broad range of platforms and applications, the ability to set service-level agreements, and support of both agent and agentless monitoring.

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“Uptime Infrastructure Monitor (UIM) gives us the data we need to find, diagnose and correct issues. With UIM, we can continue to provide the top-notch performance and service our customers are accustomed to.”

*Thomas Wollan, Network Operations Center Manager, TeleComputing (small business, computer services, Norway) [IDERA case study](#)*