



DB Ace Enterprise for MySQL® 2.0.0 - Release Notes

Release Notes

Oct 2023

About DB Ace Enterprise for MySQL®

DB Ace Enterprise for MySQL is an integrated SQL tuning solution that includes a built-in SQL statement monitoring feature. Leveraging AI technology, it optimizes SQL statements through techniques like SQL syntax rewrite and SQL Hints. Additionally, it enhances the performance of your SQL statements using the Rewriter Plugin without requiring any modifications to your source code.

Supported MySQL® versions

MySQL® 5.6 or higher

New Features

DB Ace Enterprise for MySQL 2.0.0

DB Ace Enterprise 2.0.0 is a major release that includes new features, enhancements, and fixes.

Monitor SQL

DB Ace Enterprise for MySQL incorporates a SQL monitor module that enables users to simultaneously monitor the performance of SQL statements across multiple databases. The monitor utilizes the MySQL performance schema, which gathers real-time statistics related to server activity, including CPU usage, memory consumption, I/O operations, and query execution statistics. By leveraging this information, the monitor offers comprehensive insights into server performance, aiding in the identification of bottlenecks and areas that can be optimized for improved efficiency.

Inspect SQL

It is a very powerful module to analyze SQL resource consumption behavior from MySQL `performance_schema.events_statements_summary_by_digest` and



performance_schema.perevents_statements_history_long, the tool can help users quickly review the database's overall healthiness and locate problematic SQL through SQL syntax, query plan, and resource consumption.

Connection Manager

The user must set up a connection in Connection Manager before he/she can start SQL Tuning on the target database.

Tune SQL

It is a very powerful tool to tune your SQL statements in a fully automatic manner without the need for user's expertise involvement. Our AI engine will try the most effective hints combinations and SQL syntax rewrite to your SQL statement to explore potential better execution plans of your SQL statements. You can select the best performance SQL alternative for your application after benchmarking all or selected solutions generated by the engine.

Tune SQL for Rewriter Plugin

In MySQL, the Rewriter Plugin is a component that allows you to modify or rewrite SQL statements before they are executed by the database engine. It intercepts SQL queries and provides the ability to dynamically modify them, enabling you to optimize and improve the performance of your queries without changing the application code.

Manage Replace Rule for Rewriter Plugin

Manage Replace Rule for Plugin is a function to manage all deployed SQL replacement rules in Rewriter Plugin.

Query Rewriter Plugin Control Panel

Allow users to view the status of the Query Rewriter and grant them the ability to enable or disable it.

Performance Schema Control Panel

Allow users to view the status of the Performance Schema tables and setup instruments.



Resolved Issues in 2.0.0

Feature	Resolved Issue	Issue ID
Plan Viewer	Fixed an issue that a large tree plan might not be displayed completely.	DBAM-24
Tune SQL	Fixed an error when clicking the Clear but Original SQL button.	DBAM-54
Tune SQL	Fixed an error when Explore Alternatives, or Test Run some SQLs with bind variables.	DBAM-69
Tune SQL	Fixed an issue that the application might exit when explaining plan for some SQLs with specific syntax.	DBAM-78