

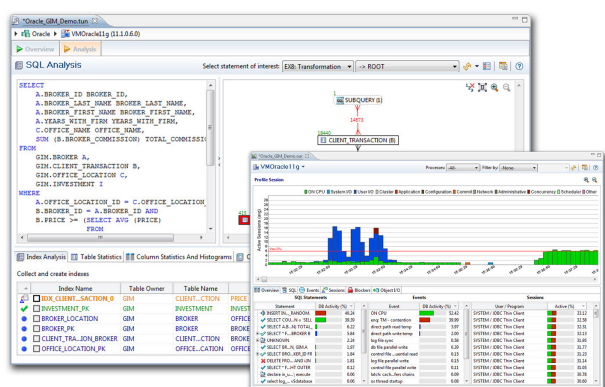


DB Optimizer™ XE5

The premiere SQL profiling & visual tuning solution



Embarcadero® DB Optimizer™ XE5 is an automated SQL optimization tool that maximizes database and application performance by quickly discovering, diagnosing, and optimizing poor-performing SQL code. DB Optimizer empowers DBAs and database developers to eliminate performance bottlenecks by graphically profiling key metrics inside the database, relating resource utilization to specific queries, and helping to visually tune problematic SQL.



Identify issues previously undetected

"The AWR reports from the native Oracle tools didn't lead us to the cause of the problem, because they weren't detailed enough. DB Optimizer allowed us to pinpoint the culprit as the eviction occurred. Without it, we would never have been able to catch – or fix – the problem."

Karen Morton, Oracle ACE

Save time over native tools

"DB Optimizer showed me that we were really hammering the space on the server, and gave us the information we needed to come up with an alternative solution. On average, I save 20% to 30% of my time using DB Optimizer over SSMS Profiler"

Tim Woods, Advisory Data Engineer at Pitney Bowes Software

Largely concerned with maintaining database availability, today's database professional is short on time when it comes to performance tuning. Both DBAs and database developers face similar challenges as they are continuously asked to do more with less. IT staffs continue to shrink, leaving database professionals to work with a growing database infrastructure. The result is that only short-term and immediate tasks are completed while long-term sustainable solutions are missed, leading to inevitable performance problems in production databases. The business impact varies by industry as companies lose up to millions of dollars for each hour a key database is not available. These database professionals face three distinct challenges:

- Maximizing existing staff and IT infrastructure
- Quickly understanding and identifying performance bottlenecks
- Resolving performance problems with sustainable solutions

DB Optimizer is a SQL optimization tool that maximizes database and application performance by quickly discovering, diagnosing, and optimizing poor-performing SQL. These capabilities allow DBAs and developers to reduce costs by maximizing productivity and IT infrastructure, improve productivity quickly through ease of use and a consistent interface, and connect their organization with reporting capabilities. Whether or not the user is a performance tuning specialist, DB Optimizer enables users to tune like a pro!

Identify Performance Bottlenecks Immediately

Database profiling provides a graphical visualization of wait-time analysis, making the SQL that is causing poor database performance easy to pinpoint. Continuous profiling monitors an entire data source within a configurable span of time. Also, explain plans are provided for a better understanding of how SQL will be executed and the performance costs.

Tune SQL like a Pro!

The SQL tuning wizard automatically suggests solutions and provides essential context in tuning SQL code. Color-coded Index Analysis shows used, not used, or missing indexes and offers recommendations for optimum performance. Case Generation is used to generate all possible cases and to find the best alternative to a given SQL statement by including SQL rewrites and hint injections.

Visually Tackle Complex SQL Queries

Unique in the industry, Visual SQL Tuning (VST) diagrams turn text-based SQL code into graphical SQL diagrams. This approach helps DBAs and developers understand the impact of SQL statements on the database. The Visual SQL Tuning (VST)

diagram displays indexes and constraints on tables and views with table statistics, as well as the joins used in a SQL statement.

Benefits Summary

- Identify performance issues previously undetected
- Accelerate SQL tuning and optimization
- Visually understand complex SQL queries
- Maintain database uptime and availability, align with data governance principles
- Maximize exiting IT infrastructure

Visual Diagnostics

Profile Chart	Shows the CPU, I/O, and other wait activity over the course of the session
Execution Statistics	Detailed information on the profiled SQL and wait categories, broken down by SQL statements, events, and sessions
Profiling Details	Drill down into the execution details for any given statement, including the SQL text, events, sessions, child cursors, blockers
Predicate Analysis	SQL statements are rolled up for a true analysis of the number of executions in real-time
Explain Plans	The Explain Plan for each SQL statement can be computed on demand via a context menu item in the Execution Statistics table
Cropping	Highlights a time interval in the profile chart to instantly change the data displayed, making it easier to see the details

Profiling

Sampling	Identify and diagnose performance bottlenecks and problematic SQL without agents or placing a significant load on the target database
Load Editor	SQL stress testing simulates a number of parallel users and executions over a specific period of time or execution cycle
Continuous Profiling	Continuously profile an entire data source within a configurable span of time
Profiling a Stored Routine	The execution of a single stored routine when profiling an entire data source is not desired
Live Data	Show data in real-time while profiling is in progress
Sharing Profile Sessions	All data and metadata pertaining to a profile session can be saved as a single entity into an archive file. Profiles can be shared across multiple workspaces and machines.

General Features

Multi-platform Support	Manage all major DBMSs from a single interface. Support includes Oracle, SQL Server, Sybase & DB2
Embarcadero® AppWave™	Enables centralized license management and tool deployment
Unicode	Offers full Unicode support
Command-Line API	Launch profiling and tuning sessions remotely

Tuning

Tuning Job	Create and run tuning jobs for a single statement or batch of statements
Batch Tuning	Tune all DML statements, stored routines, and entire SQL files
Case Generation	SQL rewrites and hint injection are used to generate all possible cases and find the best alternative to a given SQL statement
SQL Rewrites	SQL rewrites are suggested as part of the case generation in the SQL tuner. SQL rewrites are also suggested as you type in the SQL IDE
Hint Injection	Customize the subset of hints to be considered for hint injection and alternative execution paths
Cost Generation	Display the explain plan cost for each original statement and each generated
Visual SQL Tuning	The Visual SQL Tuning (VST) diagram displays indexes and constraints on tables and views, as well as the joins used in SQL statements
Index Analysis	The color-coded Index Analysis feature shows indexes that are used (green), not used (blue), or missing (orange) and offers indexing recommendations
Execution Statistics	Run the SQL with alternative execution paths to discover the fastest running SQL statement, and apply the change at the click of a button
Textual Comparison of Cases	A visual diff viewer helps the user spot the textual differences between any two SQL statements

Data Capture

File Capture	Save an entire profiling session to a file for future analysis and reference or to share with others
Repository Capture	Stream profiling data into a central repository for your open session

Become Proactive in Data Governance Compliance

DB Optimizer's ability to identify bottlenecks via database profiling, tune SQL, and load test gives organizations an advantage in ensuring database performance, uptime, and availability. This functionality gives DBAs and developers the ability to be proactive in identifying performance problems, and complying with Data Governance performance and availability standards.

Ready to learn more about DB Optimizer? Contact us at 1-888-233-2224 or sales@embarcadero.com

For data modelers and data architects, ask us about ER/Studio, the ultimate design, modeling and collaboration solution.