BMC AMI SQL Performance for Db2®

Monitor workload impact, identify expensive queries, and ensure that SQL runs efficiently

PRODUCT DESCRIPTION

BMC AMI SQL Performance for Db2® for delivers modern solutions designed for a new generation of mainframe professionals to quickly eliminate wasteful SQL statements, manage performance throughout the application lifecycle, and audit privileged access to reduce risk. Rapidly diagnose performance problems, track them to their source, tune SQL and anticipate and resolve slowdowns to avoid bad SQL, bad access paths, and costly CPU upgrades.

BUSINESS CHALLENGE

New and changed applications drive large, increased transaction loads that are difficult to manage and impact performance. When applications perform poorly, they degrade business service delivery and typically consume excessive resources. Highly experienced DBAs are retiring and new mainframe professionals need innovative tools to help them quickly identify which SQL statements are causing problems and tune these applications to improve performance. **Without modern solutions, organizations struggle to keep SQL optimized and digital business running smoothly.**

BMC SOLUTION

Shift Left quality and performance SQL issues with BMC **AMI SQL Performance for Db2**®. Quickly identify and tune your most resource-intensive SQL statements at each stage of development to reduce CPU consumption while improving performance and availability. Optimize workload access paths and improve your index strategy to reduce risk with a secure interface that streamlines workflows and improves quality, velocity and efficiency.
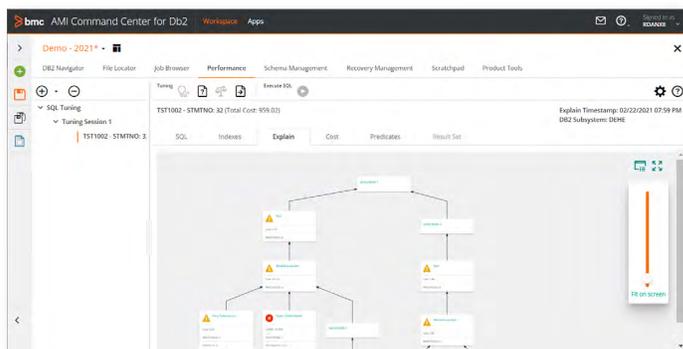
KEY FEATURES

BMC AMI SQL Performance for Db2® helps DBAs and application developers keep bad SQL out of production.

- **Shift Left** provides performance reports to developers during SQL creation

- **Identify and tune resource**—tune SQL statements to reduce CPU consumption

- **Diagnose and track performance problems** to their source

- **Anticipate SQL-related slowdowns** so you can resolve them early

- **Ensure your SQL runs efficiently** and cost effectively

- **Graphical user interface simplifies tuning analysis** and expedites recovery progress and reporting

- **Migrate Db2® statistics** across subsystems and compares SQL statements and index analysis

KEY BENEFITS

- **Effectively tunes performance** problems leading to reduce cost and improved transaction performance

- **Improves response times** for your end users without expensive hardware or software upgrades

- **Compares workloads for ease of migrating** from one release to another and maintains your service level agreements with efficient SQL statements

- **Improve performance and availability**

Visualize your SQL statements with an easy to use graphical user interface.

PRODUCT DETAILS

BMC AMI SQL Performance for Db2® integrates the functionality of the following technologies into a single offering to optimize performance and availability: BMC AMI Apptune for Db2® , BMC AMI SQL Explorer for Db2®, BMC AMI Command Center for Db2®, and BMC AMI SQL Assurance for Db2® (New capability 2021).

Troubleshooting: Increase availability by pinpointing resource-intensive SQL statements without running expensive SQL traces. Collect performance data in real-time for every SQL statement, summarize the collected data, and store it for analysis. Identify the most heavily accessed Db2 tables and indexes, and analyze by subsystem, buffer pool, database, and data set (tablespace and index space).

Intuitive, graphical interface: Gain insights into Db2 information through an intuitive, graphical user interface. Use powerful What-If technology to test changes and compare results before committing changes to SQL or physical structures. Skills transfer is easy with point-and-click capabilities that reduce demands on scarce DBA staff and support a new generation of DBAs.

Streamline processing and tuning expensive SQL statements: Quickly identify the largest resource-intensive, performance constrained, or error-prone SQL statements in all phases of the application life cycle. Obtain information about tuning opportunities, the impact of SQL statements on the workload, and the dynamics of the target Db2 subsystem. Tune applications before moving them.

Enforce SQL syntax standards: Validate SQL syntax used in your applications meets industry best practices and follows your company's standards.

Efficient reorganization: Evaluate both space usage and performance metrics to determine when or if reorganization is necessary. Identify and remove unused indexes to avoid unnecessary reorganizations.

Access path analysis: Compare several versions of your workload access paths to avoid problems when making a change or moving to a new environment. Validate your SQL during development to ensure valid access paths and uphold SQL best practices.

Index usage analysis: Identify used and unused indexes and model index changes to improve your indexing strategy. Identify access path changes and changes in SQL statements to correct performance problems before an application reaches production.

Historical performance: Gather and manage historical performance data for trending and analysis. Create and store the history that contains all environmental information used by DB2 to select access paths. Simulate adding indexes and changing statistics before going to production. Store and review a history of past analysis so that changes can be quantified, and the differences are automatically extracted. Set application performance using expert rules to detect SQL statements, establish installation specific rules, set or change thresholds, and issue warnings.

Advisory capabilities: Get recommendations for opportunities for tuning and optimization. Assess the structure of indexes and make recommendations for improvement. Compare multiple versions of workload access paths to model changes.

DevOps Plug-in: This new innovative capability provides a Jenkins Plug-in leveraging the BMC AMI SQL Performance for Db2 solution to interrogate SQL and evaluate it in both its current environment and against target production environments to ensure that SQL coding standards and performance issues are reported and resolved prior to moving to the next step in the route to live process. DBAs are free from the tedious work of evaluating every SQL change moving through the development lifecycle. DBAs can now manage a set of rules and the developers will receive automated feedback on SQL that does not meet standards as it moves through the development process.

Modern web interface to Db2: A web-based interface that allows application developers to access the Db2 catalog information while developing Db2 applications. Instead of having to learn how to use TSO/ISPF to navigate the internals of Db2, the application developer uses a graphical interface that presents information in an intuitive way.

(i) **FOR MORE INFORMATION**

To learn more about BMC AMI SQL Performance for Db2®, please visit **bmc.com/it-solutions/bmc-ami-sql-performance-db2.html**

443069