IBM DB2 Optimization Expert for z/OS, V1.2

Highlights

- ***Optimize DB2 query performance to help lower total cost of ownership***

- ***Proactively solve problems before they occur to help increase quality of service***

- ***Decrease reliance on specialized DBA skills through autonomics and open tools***

    Works with DB2 V8 and DB2 9

As the complexity of managing and tuning various workloads continues to escalate, many database administrators (DBAs) are falling farther behind in their struggle to maintain continuous avail-ability and high quality of service (QoS) while also keeping costs in check. IBM DB2® Optimization Expert for z/OS®, running on a Microsoft® Windows® workstation, is designed to ease the workload of IT staff through a rich set of autonomic capabilities that help optimize query performance and workloads, and speed application deployment.

DB2 Optimization Expert builds on the basic capabilities of the DB2 Optimiza-tion Service Center to offer advanced proactive monitoring technologies, enabling organizations to transition from reactive, manual query tuning to proactive optimization based on best practices. By building on an open

standards platform, DB2 Optimization Expert helps maximize DB2 for z/OS value while reducing overall total cost of ownership (TCO) and the need for specialized DBA skills.

Identify and analyze problems
DB2 Optimization Expert enables you to quickly snap the cache across your DB2 subsystem or datasharing group to find running dynamic queries and which of those queries might be causing per-formance problems — from application outages to migration obstacles — on your DB2 for z/OS subsystem. You can also view query activity from a number of other sources, such as the DB2 catalog, or even import a query from a file. In addition, DB2 Optimization Expert lets you record information about the normal execution of static and dynamic SQL statements, as well as exception processing information, such as when the execution of SQL statements exceeds specific thresholds.*

* Requires DB2 9 for z/OS

Get expert tuning advice

DB2 Optimization Expert makes it easy for you to get and implement expert advice to improve query performance. After you've identified a problem query, you can run any or all of the expert advisors to get tuning recommendations, including:

Statistics advisor.

Recommends statistics to update or collect to improve the performance of a query. Provides query report for statistics information.

Query advisor.

Recommends ways to rewrite an SQL query to improve performance and provides drill-down capability for queries.

Access path advisor.

Alerts you to problematic access paths in the access plan for the query that might cause poor performance.

Index advisor.

Recommends new indexes to enhance the performance of an SQL query. Provides "what-if" analysis for queries.

Monitor the health of the SQL workloads

Once you've optimized the performance of queries that run on your DB2 for z/OS subsystem, you'll want to ensure it continues to perform at peak service levels. DB2 Optimization Expert delivers advanced features that enable you to proactively detect and prevent problems, analyze workloads to improve physical database design and speed application rollouts to production. These include the ability to create monitor profiles that monitor* the health of query processing on the subsystem and alert you when problems develop and when more tuning activities might be advised.

DB2 Optimization Expert also goes beyond single query tuning advice to offer expert tuning advice to help optimize entire workloads.

With DB2 Optimization Expert V1.2, you can capture workloads across data sharing groups and import/export workloads to facilitate application deployment.

These include:

Workload statistics advisor.
Recommends statistics to collect or update to improve the overall performance of the statements that make up an SQL workload.

Workload index advisor.
Recommends indexes to create or modify to improve the overall performance of the statements that make up an SQL workload.

Workload query advisor.
Recommends ways to rewrite specific SQL queries to improve performance of a workload.

For maximum flexibility, DB2 Optimization Expert enables you to capture statements from a number of sources, including: the DB2 catalog (plans and packages), cut and paste, dynamic statement cache**, QMF, a file on your workstation or another workload. You can also specify filter criteria to limit the number and type of statements that you capture.

Leverage advanced DBA tools

DB2 Optimization Expert offers a range of advanced tools to help experienced DBAs understand, analyze, format and optimize SQL statements. Through these tools, DBAs can gather valuable information, graph access plans through an easy-to-use interface and even set optimizer hints to improve the access path of a query.

Build on a next-generation platform

DB2 Optimization Expert is built on Eclipse™, an award-winning, open-source platform for the construction of powerful software development tools and rich desktop applications. Easily integrated with existing and future tools and processes, DB2 Optimization Expert offers a range of powerful capabilities to help organizations get the most from their DB2 for z/OS systems.

For more information

Please contact your IBM representative, an IBM Business Partner or call 1-800 IBM CALL within the U.S. Refer to product ID 5655-S19.
ibm.com/software/data/db2imstools

Workstation requirements

- *500MB hard disk space*

- *1GB memory*

- *An Intel® Pentium® IV processor equivalent or above*

- *One of the following Microsoft Windows operating systems:*

  – *Windows 2000*

  – *Windows XP*

  – Windows Server 2003

  – Windows Vista Business or Windows Vista Ultimate

- *IBM DB2 Connect™ Application Server, Enterprise, Personal or Unlimited Edition at the Version 9.1 FixPack 4; 8.2 FixPack 8 or 8.1 FixPack 15 level, or equivalent software that can create an IP network connection to a subsystem*

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