

DO MORE WITH LESS

Increases your knowledge about your core business

View to understand easily how a specific, a group, or all applications utilize your machine

Builds your company specific SQL Workload Warehouse on a daily, weekly, monthly, quarterly basis

Chooses a period of time you find suitable for your company to keep the statement text and later on just the KPIs

Finds slots for REORG without negative impacts for end user services

Eliminates unnecessary administration and maintenance costs for unused SQL and objects

USE CASES

- Taste one "use case" ... and you can't resist.
- Appetite comes with eating. It's moreish.
- L'appétit vient en mangeant.



SQL WorkloadExpert for Db2 z/OS

What users want to do with a SQL Workload Warehouse

"SQL WorkloadExpert (WLX) is designed to collect all dynamic and static SQL from the enterprise for Db2 z/OS via snaps of the EDM Pool and DSC. This enables the measurement of more than 30 KPIs about resource consumption and performance. It also has the powerful capability to compare two snaps (before and after) and also to compare the quality of SQL via dynamic EXPLAIN. All the SQL will be aggregated to enable drill-downs. WLX interfaces with BIX and SPX so that Db2 access paths can be evaluated, compared and tuned.

CUSTOMER REQUIREMENTS

You can see that "The sky is the limit" but think about it for a while. "What would you do if you had all SQL from one year in a SQL Workload Warehouse, let's assume for 3 months with statement text and later on just the KPIs?"

USE CASES

Use Case 1: Application Workload Analysis –

Which machine load is produced by a certain

application?

"Use Case 2": Workload-Change

Problem-Detection and Trending

Compare of CPU, I/O, execution rates, current KPIs and deltas – Calculated and summarized to the costs of

several apps (via Compare view).

Use Case 3: Object Quiet Times for Maintenance (REORG)

Use case 4: AUDIT (Who did What Where and When) – DDL, DML, DCL

Use Case 5: Not referenced Objects

(Tables, Indexes, and Tablespaces)

Use Case 6: Not referenced Packages

Use Case 7: Forecasting of possible performance improvements in

dynamic SQL by exchanging literals with parameter

markers

■ Use Case 8: Disc Problem Detection – I/O Rates

Use Case 10: Multi-Row Fetch Candidate Detection

Use Case 11: SQL KPIs – Background Noise and Exceptions

Use Case 12: SELECT Only Detection – LOCKSIZE tuning

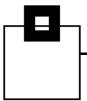
Use Case 13: Delay Detection

Use Case 15: Visual – EXPLAIN Link (webve: plug-in)

Use Case 16: SPX (*SQL PerformanceExpert/SPX-PLUG-IN)

outside standard delivery

2020-03



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Detects multi-row fetch candidates easily

Uses the optimized family of performance tools from SEG:

"SPX, **"BIX** (enhanced with Db2 hardware simulation) and **"RTDX**

Integrates in IBM recommended company standards like Eclipse native, IBM DataStudio or IBM Rational

STAND ALONE available:

"WLX - Audit

Discover all future Incompatabilities before they cause problems

Continuous analysis and discovery especially important for 3rd party Software

Enables long lead-time correction processes to be planned and launched

Also as a Freeware component to allow quick and easy testing of the current situation

Use Case 17: RTDX (**Real Time DBAExpert)

REORG Suppression + Detection

Use Case 18: Eager vs. Lazy Loader Detection

(JPA-Java Persistence API)

Use case 19: Object usage

Use case 20: Offline Performance Database (LUW)

Use case 21: Up and Down Scaling SQL Workloads

Use case 22: Same SQL on Multiple Schemas

Use case 23: DSC Flush Analysis

Use case 24: SQL Text Analysis

Use case 26: CLUSTER Index Detection

Use case 27: Aggregate SQL View

Use case 29: CPU Intensive Statements

Use case 30: Index Maintenance Costs

Use Case 31: Not referenced SQL

Use case 33: SQL Timeline

Use case 34: BIF Detection

Use case 35: BIF/ICI Detection

Use case 37: PKLIST Problem Detection

Use case 39: Content Manager System (CMS)

Use case 40: Utility review

Use case 41: Bufferpool Overview

Use case 42: CPU usage of Packages

Use case 43: Deadlock & Timeout

Use case 45: Lock Escalation

Use case 46: Index Page Splits

Use case 47: GETPAGES Insert-Performance

Use case 48: Failing Statements

Use case 49: Old threads

outside standard delivery

2020-03



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STAND ALONE available:

"WLX - Audit

STC (64 bit high level ASM)
Collects all SQL running on
your PLEX: static and dynamic

Exploits IFI - Technologie

Supports standard AUDIT features of the DBMS

Covers all levels of SQL: DDL, DML, and DCL

Reports about IBM utilities and Db2 commands, Authorization failures

Enables visualization of anomalies (SQL usage and execution rate)

Supports LEEF standards (Log Event Extended Format) and SIEM (Security Information & Event Management) e.g. IBMs zSecure and QRadar, Splunk, Alien Vault

More information on

"WLX - Audit flyer & page:

- www.seg.de/media/flyer-wlx-Audit.pdf

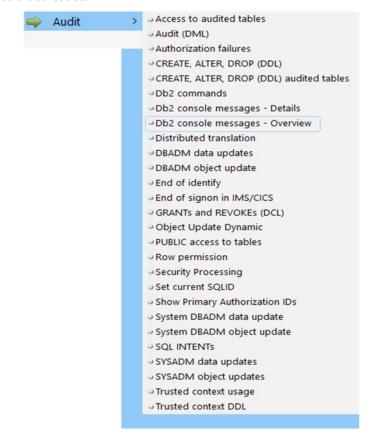
- www.seg.de/audit

SEGUS Inc

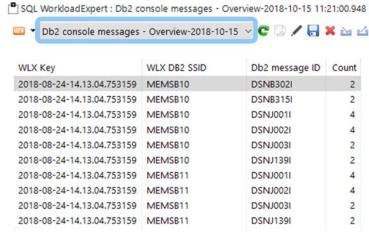
14151 Park Meadow Dr. Chantilly, VA 20151 USA (800) 327-9650 www.segus.com info@segus.com

"WLX - Audit for Db2 z/OS

The **Use case 4** - AUDIT (Who did What Where and When) gives you the following sub-use cases:



The **Db2 Console messages - Overview**: one of the Audit sub-use cases



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