



RealTime DBAExpert for DB2 z/OS From SOFTWARE ENGINEERING

Proactive, On-Demand DB2 Database Maintenance

With so many different subsystems and a continually rising volume of data, it's no wonder DBAs are increasingly frustrated and challenged when faced with finding the time to perform accurate and comprehensive DB2 maintenance. Companies doing e-commerce already require "on-demand" processing. Unfortunately, well-known database maintenance procedures that trigger RUNSTATS, REORG, and COPY don't fit within the 24x7 window. Yet, these tasks are essential for top performance and security. It seems the to-do list for a DBA is always growing longer, and current database maintenance solutions require mounting efforts of manual work.

Database Maintenance That Fits Today's and Tomorrow's Business

For most companies, the ability to schedule exclusive time slots to perform DB2 maintenance is a procedure of the past. In fact, scheduling exclusive time slots for maintenance makes little sense today, as these activities are demanded by the database—not the business. That's why these maintenance tasks should be pushed to the background—and run there, automatically, out of sight and out of mind until an incident prompts human intervention.

Providing such a solution is RealTime DBAExpert for DB2 z/OS from SOFTWARE ENGINEERING. RealTime DBAExpert exploits trendsetting features such as Real-Time Statistics (RTS) introduced in DB2 V7, the Workload Manager (WLM), and major enhancements of IBM's database utilities such as the SHARELEVEL CHANGE option and inline functionality to enable dynamic maintenance when it's needed. With RealTime DBAExpert, three major improvements are delivered:

- Continuously maintained DB2 data without interruption
- Background maintenance tasks that don't disrupt business processing
- Elimination of manual intervention required to assure security and top performance.

On the basis of these major advancements, the process of doing database maintenance is transformed from a group of exclusive jobs to a selective and precise series of "silent" and non-disruptive maintenance procedures that do not interrupt business applications.

Elaborated to a Sophisticated Solution for Easy Integration

RealTime DBAExpert not only monitors and reacts on demand, it also integrates automatically into the existing

environment to protect the investments already made. It dynamically schedules the as-needed online utility maintenance jobs using TWS, Control-M, UC4, etc.; interacts with most existing database maintenance solutions; and allows flexible user adjustments of all shipped default settings to seamlessly weave it into existing processes. The result is faster implementation, enhancement to existing solutions, substantial reduction in costs and resources required for DB2 maintenance, and a simple migration path to a "behind-the-scenes," automatic, on-demand DB2 maintenance solution.

RealTime DBAExpert additionally adjusts space requirements on the fly. Further, it automatically resolves potential utility abends using actions defined in rule systems that follow IBM's recommendations. This is a new level of securing a production database—preventing outages by monitoring and adjusting before outages occur. Transparently, all relevant maintenance information is tracked and reported to provide the KPIs that clearly present your ROI in a visible and measurable way.

SYSTEM	DATE	RUN-TIME SAVINGS (PER WEEK)	NUMBER OF RUNSTATS—AVOIDED (PER WEEK)
DB2 A	7/27 - 9/2	3 hours	2684
DB2 C	8/9 - 9/14	20 hours	3333

RUNSTATS No Longer Needed for Threshold Checking

SYSTEM	DATE	RUN-TIME BEFORE (PER WEEK)	RUN-TIME WITH REALTIME DBAEXPERT (PER WEEK)	SAVINGS
DB2 A	8/20 - 9/15	52 Min.	26 min	50%
DB2 B	8/12 - 8/29	144 Min.	54 min	63%
DB2 C	9/1 - 9/15	1556 Min.	75 min (EXTRAPOLATED FROM ONE TEST RUN)	95%

Run-Time Improvements

24x7 Comes Alive

RealTime DBAExpert transforms the 24x7 pseudo-world into a reality. Built based on the specifications of a DB2 customer-driven Design Council, RealTime DBAExpert is the result of real customer requirements and intensive research.

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