



QA

QA+

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PM

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DB/IQ QA - Quality Assurance

analyzes, explains and performs checks on all SQL code; whether in source form, in a DBRM resulting from the DB2 pre-processor, in all Catalog-based SQL (plans, packages, views, MQTs, triggers etc.) or as dynamically executed SQL.

QA Features

- ✓ More than 250 optional checks. Enforce additional individual checking.
- ✓ Enforce index access and restrict the number of joins, sorts, UNIONS, sub selects or cost factor values.
- ✓ Document index and Referential Integrity maintenance as well as "Trigger Cascading" involved with DML
- ✓ Reject violations of standards such as the use of object qualifiers, superfluous cursors and objects, view materialization, Cartesian Products and DELETES or UPDATES without WHERE predicates.
- ✓ Reject programming violations such as the use of DDL, SELECT *, arithmetic in predicates, non-matching host variables, join predicates, and ... many more.
- ✓ Interactive quality control and full explain functionality for all SQL statements at source statement level provides the SQL developer with a detailed explain analysis including support of hidden explain tables
- ✓ Available for DB2 v8, v9 and v10. Supports – MQTs, Common Table Expressions, UNICODE, long names etc.

QA Facilities

- ✓ All SQL statements easily benchmarked together with their DB2 access paths and scan magnitude displayed with all relevant optimizer statistics.
- ✓ QA's powerful SQL Monitor captures all or just "cached" SQL activities during the execution of named applications. Navigating through the traced application's SQL reveals the most frequent and most costly SQL.
- ✓ Production or manipulated values of RUNSTATS can be set to influence DB2 access paths and simulate future situations as data volumes change
- ✓ SQL statements can be automatically compared with previous versions to indicate any changes in access paths selected by DB2. E.g. V8-V9 impact

QA Benefits

- ✓ Reliability or performance problems can be detected before they occur in production saving significant time (and money) of DBAs, users, and clients while typically saving percentage points in machine utilization.
- ✓ New code can be automatically evaluated before being moved into production. Problems are revealed early in the development phase. Improvement or deterioration in the quality of all DB2 applications can be monitored.
- ✓ Performance evaluations can be made with different data volumes for active databases.
- ✓ QA checks all SQL - regardless of origin. The SQL Monitor captures all SQL, both static and dynamic, including such from home-grown applications, client-server, web-based, QMF, ERP applications and ...