

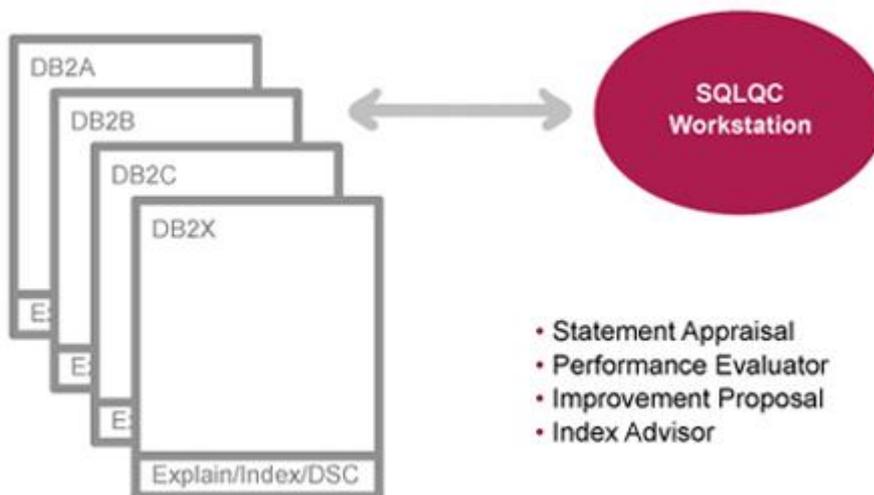


# SQLQC

## SQL QUALITY CONTROL

Increasingly complex workloads require new approaches to SQL Quality Control and performance tuning. An array of very different SQL statements are continuously piped through systems which raise obvious questions: Which of these have optimization potential; which may require review in terms of unjustifiably high resource consumption?

Traditional approaches to measuring and assessing “upstream” quality assurance during development and maintenance phases in current DB2 environments just don’t work anymore. Today, the majority of applications generate the SQL statements immediately prior to execution which requires a different method in an ever changing and unknown environment.



SQLQC was designed to address this problem. The tool analyzes continually the current DB2 workload and develops suggestions for improvement and answers. A small sample of some of the common problems encountered include:

- Which applications are my top consumers? Remind yourself that a statement might appear as short and may even be executed quickly without any apparent issues and yet can be part of a serious performance problem. Even short and ‘fast’ SQL statements can be among the top consumers if executed repeatedly so comparable statements must be recognized and grouped together to allow the right conclusions.
- Are proper indices available? What would happen if I change an index? SQLQS answered this without having to actually create the index.
- Are the processed DB2 objects meeting required conditions in regards to Runstats and Reorg?

The automated ongoing reviews of static and dynamic statements of the different SQL environments in new DB2 releases distinguish SQLQC from other performance monitors. The tool alleviates specialists from tedious work, saves them laborious analysis of performance traces, statistics, index inspections, etc. Complex questions and hidden problems are answered by just a mouse-click for application programmers and database administrators in ensuring quality assurance in all development and rollout cycles as well as for ongoing supervision of production.