

# SQLMagic

**Managing HP NonStop™ SQL/MP databases can prove to be complicated, time-consuming and costly. In a time when effective use of technical resources is critical, businesses need a solution that simplifies the management of HP NonStop SQL/MP databases.**

## The SQLMagic Solution

SQLMagic from Merlon Software Corporation provides a rich set of features that support efficient, effective management of HP NonStop SQL/MP databases. SQLMagic's client program runs under the Microsoft® Windows® operating system, providing a familiar interface. SQLMagic is an ideal learning tool for users familiar with SQL on other platforms; however, even experienced nonstop SQL/mp users will appreciate the ease of use, completeness and responsiveness of SQLMagic.

### Increase Productivity

From increased system responsiveness, to more effective use of technical resources, SQLMagic is designed to deliver speed, accuracy and efficiency at every turn. With SQLMagic, users can quickly create, alter or drop SQL objects, such as tables, views and indexes. And with SQLMagic's powerful set of wizards, complex tasks like splitting partitions, moving tables or creating new databases are made easy.

SQLMagic can generate data definition language (DDL) statements that describe SQL objects, such as tables, views or indexes. For tables, it can also generate the Enscribe DDL definition.

SQLMagic can generate scripts to perform SQL operations in batch mode. This is useful for long-running or resource-intensive operations

that must be performed during off-peak times.

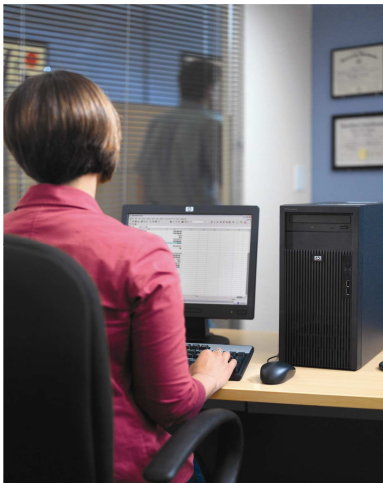
Scripts can be scheduled for execution using NetBatch or a similar job scheduling tool.

SQLMagic also provides facilities to manage partitioned tables and indexes. Wizards assist the database administrator (DBA) to move, merge or split a single partition or to repartition a complete table or index. SQLMagic automatically calculates partition boundary keys quickly and accurately based on a specified percentage.

### Simplify Table Maintenance and Management

SQLMagic allows users to browse SQL tables and insert, update or delete rows. Rows can be displayed in the order determined by the primary key or any of the table's indexes. Users can also restrict which rows are displayed by specifying a filter expression, which is especially useful for large tables.

For further functionality, an import data wizard allows data to be imported into a table from a PC file or an HP NonStop file. SQLMagic supports comma-separated values (CSV) files and Open Database Connectivity (ODBC) data sources. In addition, an export data wizard allows data to be exported from a table or view to a file or ODBC data source.





## Managed SQL Compilation

To prevent unnecessary automatic recompilation and ensure optimal application performance, SQL programs must remain properly SQL-compiled. SQLMagic maintains a database of SQL compiler options and TACL defines. This information is used to ensure that programs are compiled correctly. SQLMagic can also determine which programs require recompilation due to a database change such as moving a table or adding an index. Compilation can be performed online or via a TACL script.

## Execution Plan Management

SQLMagic provides comprehensive execution plan management capabilities. Execution plans are produced in text format by the SQL compiler. SQLMagic then converts the textual description of each plan into structured data. The user can then use SQLMagic's graphical user interface (GUI) to access details of the plans.

SQLMagic maintains multiple versions of execution plans for a program. This allows users to compare plans with previous versions to quickly identify any increase in execution costs. In addition, a number of execution plan reports are available. These include the following:

- ▶ high-cost statements
- ▶ scans that examine a high percentage of rows
- ▶ statements that use a sort
- ▶ statements that use parallel execution
- ▶ statements that use a specified join strategy
- ▶ statements that use a specified access type, lock mode or lock level

- ▶ Enables users to quickly create, alter or drop SQL objects, such as tables, views and indexes
- ▶ Offers a client program that runs under the Microsoft® Windows® operating system and presents a familiar interface
- ▶ Provides facilities to manage partitioned tables and indexes, including partition key analysis
- ▶ Provides execution plan management functions that allow the database administrator (DBA) to identify potential query performance problems
- ▶ Presents a visual query builder that allows users to quickly build queries with a graphical interface
- ▶ Allows non technical users to browse SQL data using the SQLView program
- ▶ Generates data definition language (DDL) statements that describe SQL objects, such as tables, views or indexes
- ▶ Generates scripts to perform SQL operations in batch mode

features  
at a glance

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