

ISIDIAN® SQL INSIGHT 3

Isidian® SQL Insight for Oracle is a robust software package used to speed, improve, and simplify application and database development. SQL Insight is designed to aid developers, database administrators, and analysts in creating superior code, faster and easier than they have ever before. The various tools and functions available grant the ability to create high-performance code accurately and efficiently, analyze and maintain existing code, and identify performance bottlenecks throughout mission-critical systems.

Isidian® SQL Insight vastly increases the productivity of database users by decreasing development time and eliminating the majority of errors, thus allowing quicker turn around on product development. The performance tuning features provided ensure that, not only will the development time be shorter, but the finalized product created using SQL Insight will run faster and with less overhead, adding to the satisfaction of your end users. By adding Isidian® SQL Insight to your development tools repository, application and database developers possess the ability to create superiority in their products, on time.

Isidian® SQL Insight 3 contains many enhancements to the original product, including the ability to open multiple concurrent sessions, use of a project manager, online updates, more database tools, and much more.

Development Made Easy

The powerful coding editors within Isidian® SQL Insight, used for most SQL and PL/SQL statement development, contain a wealth of features and benefits to increase the accuracy and productivity of the user. The tabbed editors system allow for the creation or modification of multiple files simultaneously, across multiple database connections, providing one simple, low footprint tool to handle your entire project.

- Statement editors support various file types, SQL, PL/SQL, Java, HTML, XML, C++, and Perl. Additional files types may be customized by the user.
- Syntax Highlighting reduces the probability of errors by providing offline syntax checking.
- Statement formatters provide the ability to format created statements to adhere to company standards..
- Completion proposals speed development by use of shortcuts or displayed hints to automatically generate commonly used and configurable code segments.
- Object auto-completion provides the user to generate their code quickly without having to reference schema diagrams or various browsers.
- From one editor, a user may create and execute a query, PL/SQL block, DDL statements, and scripts without having to switch between different interfaces.
- Integrated debugging lets a developer inspect, evaluate, and correct code segments, while they are being developed, without the complications caused by having to use separate functionality for coding and debugging.

Development Features

- The **SQL Editor** is used for most SQL and PL/SQL statement creation, with features such as a tabbed file interface, multiple / custom language syntax highlighting, completion proposal for standard functions and objects / object properties, SQL and PL/SQL formatting, auto-completion hints and shortcuts, and much more.
- **Advanced Grid functionality** for the results of queries, table data, view data, and the SGA Browser. The advanced functions within each grid include quick searching for column values, multiple column single-click sorting, drop-down and custom filtering, drag-and-drop column grouping, summary calculations, data exporting, and reporting.
- The **SQL Builder** implements an intuitive Designer to generate simple to complex queries in a simple graphical interface. The SQL Builder interface even allows for sub-selects, custom variables, and printing or saving the layout for schema diagram generation.
- **Describing** an object is used to gather specific information on an object within your database. This information could include the columns of a table, the source code of a package, or the general information of a sequence. SQL Insight's Describe interface provides a tabular display containing all possible information for the object and provides several function points for the object.

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- The **Database Browser** is used to quickly navigate the entire database for detailed information on various database objects using a simple schema-to-object tree view.
- The **Integrated PL/SQL Debugger** allows a user to diagnose complications within anonymous PL/SQL blocks and underlying methods (packages, procedures, etc.). The debugger comes equipped with the ability to set and control the attributes of breakpoints, exception handling, variable value hints, the call stack, a variables list, and evaluating or modifying variable values.

Tuning Features

- The **Explain Plan** interface, a statement analysis tool, is used to describe and optimize the access paths of your SQL code using both the standard tree and a step-by-step description of each execution. Also included are detailed instructions on the selected execution and the describe information for a selected object. SQL Insight also provides additional statement analysis tools such as SQL Trace and AutoTrace.
- **Statement Comparisons** are used to compare the performance of individual statements. The customizable interface will automatically identify problem statements, show tuning progress, and allow the printing or saving of the comparison information for reporting purposes. Using the Statement Comparisons, the statements of an entire application may be diagnosed to identify performance bottlenecks in a few simple clicks.

Overwhelming Results

Creating ad hoc reports, professional reports, analyzing and administering data, and producing query results has never been easier. The grids utilized within SQL Insight provide an unsurpassed graphical interface to data that allow users to search, filter, or create professional looking reports from a simple query result.

- Searching for data within a grid can be done by simply typing in what you are looking for within a column.
- Column may be sorted, one or more at a time, ascending or descending.
- Filters can be applied to a data set with only a mouse-click. Complex filters may be generated this way or by use of a wizard.
- Column may be dragged and grouped to infinite levels, creating a hierarchical display of the data set.
- Summary Footers provide column calculation displays, such as the average or summation of the column's data.
- Raw data may be exported from the grids, producing text files, CSV files, insert scripts, or any form of delimited file desired.
- Once you've applied your desired formatting to a data set, filtering, grouping, summaries, etc., the resulting data set may be saved to an Excel, XML, HTML, or text file, preserving the formatting you've specified.
- Row View may be invoked to view data, row-by-row, in a form design layout rather than a grid.
- The grids support integrated LOBs, displaying images, text objects, and more directly in the grid.

Rapid Performance Tuning

“ Absolutely anyone concerned with the performance of SQL or PL/SQL in Oracle should try using SQL Insight. ”

Mark Richard - OraFAQ Review

Slow or high-overhead statements can lead to serious problems during development, testing, and finally, to the end user by causing frustration and unnecessarily increasing the amount of time it takes to perform basic tasks. Performance tuning new and existing code has previously been an art form that few have mastered. Isidian® SQL Insight provides an abundance of information, statistics, charts, and guidelines to help a developer of any expertise level achieve quality, high performance tuning capabilities. Using SQL Insight's performance tuning features, a user may identify poor performing statements in current development, evaluate in-use code to locate and correct system bottlenecks, and produce detailed graphs and information on statement tuning progress.

- The base Explain Plan interface is an extremely powerful tool that provides, not only the well-known tree view, but also the stepped order of operations, all know information pertaining to the operation (partition information, bytes, cost, etc.), a detailed definition of the operation selected to help understand the underlying process and complexity of each step, and a describe interface that automatically displays details on the object utilized within the selected operation.

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- Statement Comparisons provide diverse use when performance tuning statements or an application. This functionality can be used to graph statistics displaying and reporting the tuning progress on a single statement or set of statements, identify one or more poor performing statements from a large set of statements, and provide detailed database statistics on one or more statements.
- PL/SQL may be also be tuned, using the tools within SQL Insight Professional Edition, via the PL/SQL Profiler, which provides in depth charts and details on the timing and repetitions of each line of code executed during the process. The PL/SQL Profiler also provides a historical view, showing modifications made to the statement and the impact per line and overall.

Standard Edition

Isidian® SQL Insight Standard Edition is designed for developers, analysts, and database administrators alike, containing both powerful and informative functionality to perform any given task. Using SQL Insight, you have the power to generate, test, and tune your code in the most efficient manners possible. Every aspect of SQL Insight was designed with one single purpose in mind, making the tasks easier and faster to perform and giving the individual the ability to produce more with greater ease. This edition of SQL Insight is intended for users that develop applications, reporting, perform quality assurance, and manage data or database objects.

The Standard Edition is packaged at a reduced price to present an option for companies that do not develop or specialize in PL/SQL development. If your needs do include this development, we suggest the Professional Edition.

Professional Edition

The Professional Edition of Isidian® SQL Insight contains all features within the Standard Edition, and introduces advanced solutions for PL/SQL profiling and debugging. Using this feature set provides the developer instant identification of coding complications and performance problems. This edition of SQL Insight is intended for users producing database applications that utilize PL/SQL code.

The additional feature set provided in the Professional Edition includes:

- Profile PL/SQL anonymous blocks and stored methods
- View drill-down time charts of executed units and lines of code
- Store line text for versioning comparisons
- Debug PL/SQL anonymous blocks and stored methods
- Full featured code stepping
- View and modify variables
- Navigate through the execution's call stack
- Set breakpoints and specify individual behaviors for each

- Browse the shared pool with the **SGA Browser**, used to easily identify those statements needing improvement by seeing the execution statistics of all statements being processed by the database and comparisons of the statistics of each statement against the average statement processed.
- SQL Insight's **Profiler** interface grants the ability to execute and cache statistical information on PL/SQL blocks and methods (packages, procedures, etc.). The Profiler Analysis displays this statistical information allowing a user to compare executions or view the execution statistics line by line to determine performance problems.

Management Features

- Isidian® SQL Insight provides a **Project Manager** to help manage files, scripts, paths, and database connections in one simple interface. Project files may be opened and saved as normal files, allowing you to have multiple project configurations.
- The **Pin List** contains every statement that has been pinned through the SQL Editor or the SQL Script File Viewer, displaying the definable name of the statement and the original time and date the statement was pinned. These statements are used as commonly executed statements or those requiring particular attention.

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- This **History List** contains every statement that has been executed through the SQL Editor, displaying the name of the statement and the time and date the statement was executed.
- Manage the distribution of your files or products using SQL Insight's **FTP Manager**, a built-in, fully functional, FTP client interface. The FTP Manager contains the ability to create or modify local and remote directories, transfer files in both binary and ascii mode, and update file permissions.
- The **Source Code Control (SCC) Manager** provides communication to any version control system that implements an SCC interface. This includes but is not limited to: Microsoft Visual SourceSafe; Borland StarTeam; CS-RCS; PVCS; and QVCS. The SCC Manager provides a direct integration to the version control system to allow SQL Insight the use of its file versioning capabilities.
- The installation of Oracle Client Software is not required. If desired, SQL Insight may connect directly to an Oracle Database using TCP/IP, bypassing the need for Net8 or any additional software on the client machine. No server modifications are necessary for this ability.

System Requirements

Isidian® SQL Insight Standard Edition

Client Requirements

- Intel® Pentium® 166 or higher
- Microsoft® Windows 98/NT/2000/XP (32-bit Windows)
- Oracle® Net8 and higher
(*Client software is not necessary if using TCP/IP connection.*)
- 30 MB Disk Space
- 64 MB RAM (128 MB recommended)
- SVGA or higher resolution monitor
- Mouse or similar input device

Required DBMS

- Oracle8i™ Database, Oracle9i™ Database, or Oracle Database 10g

Isidian® SQL Insight Professional Edition

Client Requirements

- Intel® Pentium® 166 or higher
- Microsoft® Windows 98/NT/2000/XP (32-bit Windows)
- Oracle® Net8 and higher
(*Client software is not necessary if using TCP/IP connection.*)
- 36 MB Disk Space
- 128 MB RAM
- SVGA or higher resolution monitor
- Mouse or similar input device

Required DBMS

- Oracle8i™ Database, Oracle9i™ Database, or Oracle Database 10g

For further information, please visit us on the web at www.isidian.com.

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