

Release Notes

ClearSQL 7

NEW FEATURES

- **NEW:** Code Review Rule Editor. *ClearSQL* now allows creating new custom Code Review Rules for PL/SQL.
 - New rules use the XML Path Language and have no user or feature limitations.
 - The rule editor supports Code Insight.
 - You can clone and modify the existing rules.
 - You can assign each rule a custom category and a code element used in this rule.
- **NEW:** Significantly increased the number of Code Review Rules. *ClearSQL* now features over 170 built-in rules for PL/SQL code analysis.
- **NEW:** Added the ability to define severity levels for the rules: Critical, Major, Minor, and Trivial. You can rename them to your liking at “Code Analyzer Options > Code Review Options > Severity”.
- **NEW:** Converted the built-in Code Review Rules to XPath.
- **NEW:** *ClearSQL* is now available in the 32-bit and 64-bit versions.
- **NEW:** Integrated a Telegram-based chat into *ClearSQL*.

IMPROVEMENTS

- **Core**
 - The 64-bit version of *ClearSQL* can analyze very large PL/SQL scripts.
- **Code Review Rules**
 - Detected violations are now sorted descending by their severity all over the application.
 - Completely redeveloped the Code Review Options page:
 - For each rule you can now view its general information, classification, XPath expression (where applicable), good and bad code samples on the Code Review Options page.
 - Double-clicking a rule opens it in the Code Review Rule Editor with all its configurations.
- **Analyzer View**
 - Added a new option “Hide empty reports” to the Code Review tab. When enabled, empty categories are removed from the Code Review results.
 - Columns on the Code Review tab in Summary are now the same as on the Code Review tab in the Script Analyzer View.
 - On the Code Review tabs in the Script Analyzer View and in Summary, it is now possible to filter Code Review results by code category, element, severity, and rule type.
 - Added the “Top Violated Code Review Rules” category to the filter on the Code Review tab.
 - It is now possible to view code samples for Code Review Rules from the Code Review tab.
 - It is now possible to select grouping for Code Review results on the Code Review tab.
 - When source code of a large script or its analysis data are loaded to the GUI, standard text “Loading the script/analysis data. Please wait...” is now shown in the Script Editor and on the tabs of the Script Analyzer View.
 - Script statuses are now grouped under a separate node on the Project Analysis History tab.
 - It is now possible to filter code review results by top values on the Code Metrics and Code Review tabs in Summary.

- **Code Analyzer**
 - Improved the support for pattern matching clauses.
 - Support for a compound DML trigger.
- **CRUD Matrix**
 - It is now possible to locate stored objects of CRUD2 matrices in the Project/Report Trees and locate their subprograms (if any) in the source code.
 - The features are available on the pop-up menus that appear on clicking a stored program or subprogram link in the matrix.
 - This functionality was added to the CRUD2 tab and to the Project Report.
 - Added the ability to export CRUD1 and CRUD2 matrices to Excel, XML, and JSON.
 - CRUD2 matrices are now available at the subprogram level of stored programs.
- **Code Synchronization**
 - It is now possible to synchronize project scripts with their sources in the original file format:
 - Added the ability to select encoding (“Autodetect” is set by default).
 - Added the “Add signature (BOM)” option (enabled by default).
 - Added the “Unix line breaks” option (disabled by default).
 - These options were added to “Preferences > Global Synchronization Settings > Files and Folders/DB Objects” and to “Synchronization Settings”.
- **Project Report**
 - Violated Code Review Rules are now shown on separate subpages in the Report Tree and are grouped by the default and custom categories.
- **Project Report Assistant**
 - Code Audit Options tab: Custom categories of Code Review Rules are now listed under “Code Review” along with the default categories.
- **Project Analysis History**
 - Applied a hierarchical structure to the “Errors and Alerts” block.
- **Job and Schedule Manager**
 - The number of objects in the project tree of a job is now counted and shown the same way as in the main project tree.
- **Split/Rename Project Script**
 - On splitting a script with more than one CREATE statement, you can now move the source script to the Recycle Bin.
- **Project Tree**
 - Applied a new icon to indicate scripts with encoding errors.
- **Installer/Updater**
 - Included the “<home>\oui\lib\win32” folder to the PATH environment variable before OCI initialization in addition to “<home>\bin”.
 - On trying to upgrade via OSD, the user is now prompted to save changes in a project and close the running application.
- **DB Connection Window**
 - Added the ability to change the order of columns in the “Last Connections” grid.
- **Online Support Desk (=OSD)**
 - Improved look&feel of the “OSD – New Message” window.
- **Main Menu**

- Added the ability to open Release Notes from the Help menu.
- A database connection string of an active connection was added to the “Disconnect” menu command.
- **Preferences**
 - Added the ability to reset options on the current page and on all the pages in Preferences.
- **Online Help**
 - Added the description of how to update through the file system to the “Updating *ClearSQL*” topic.

BUGS FIXED

- **Core**
 - An access violation at address 00A8CFFB no longer occurs.
- **Project Tree**
 - An access violation no longer occurs on filtering the Project Tree by script content.
 - The “Parser Status” column is no longer cut when 125% DPI and higher is applied.
- **Analyzer View**
 - Structure View tab: Expanding the “INSERT” node with over 1000 results no longer causes the application to hang.
 - Column headings now correctly fit the cells when 125% DPI and higher is applied.
 - Versions tab: Deleting several script versions now works correctly.
 - Fixed the alignment of the UI elements on the Properties tab.
 - You can now scroll the yellow panel with rationales on the Code Review tab to see full descriptions.
 - Autofit now works correctly on the Structure View tab.
- **Script Editor**
 - All relevant buttons on the “Script Editor” toolbar are now available when the cursor is located in the editor.
 - The “Undo” command now works correctly in the Script Editor.
 - The undo action now works correctly for deleting an uncommented block of code.
 - The number of lines is now counted correctly when there are collapsed blocks of code.
 - SELECT statements are no longer duplicated if entered in the Script Editor.
- **Code Analyzer**
 - Omitting the “AS” keyword in the row_pattern_measure_column clause of the MATCH_RECOGNIZE clause no longer triggers a parser error.
 - Formatting code no longer adds unnecessary indentation to the commented lines of code.
- **Diagrams (Flowcharts, Call Trees)**
 - Local settings are now applied correctly to Flowchart and Call Tree diagrams.
- **Flowcharts**
 - The scrolling feature now works correctly when a Flowchart diagram is zoomed to 200%.
- **CRUD Matrix**
 - The “Header” button now works correctly for Call Tree diagrams opened from CRUD1 matrices.
 - Added a horizontal scrollbar to the data object tree pane on the CRUD2 tab.
- **Project Analysis History**
 - Mouse scroll now works correctly.
- **Analysis History Report**

- Report headings are no longer missing from the project analysis history reports when generated in HTML.
- **DB Connection Window**
 - Sorting of last connections now works correctly.
 - Toggling the “Auto connection” option is now synchronized with the check box in the “Auto” column in the “Last Connections” list.
- **DB Connection Options**
 - An OCI version is now applied correctly for Oracle Client 12.1.
- **New Project/Import Scripts**
 - When database connection is lost, *ClearSQL* now shows a message prompting you to reconnect.
- **Job and Schedule Manager**
 - Autofit is now applied correctly to the columns in the project tree.
- **Preferences**
 - Values in the drop-down lists on the “Display” and “Color” pages are no longer cut.
 - An error that occurs after deleting the value from the “Number of copies” box on the “Print” page is no longer handled by the EurekaLog.
 - Saving options to a file and restoring them now works correctly for all the options in Preferences.
- **Main Toolbar**
 - The “Reset All Toolbars to Default” option now works correctly for the toolbars of the Flowcharts and Call Tree diagrams.
- **Workspaces**
 - Deleting workspaces by clicking the “Delete current workspace” button now works correctly.
 - The rename and delete actions are no longer available for the default workspace.
- **Main Menu**
 - Changed the order of the commands on the “Options” menu to comply with the order of the corresponding toolbar buttons.
- **Find in Script**
 - Pressing F3 now highlights the next relevant text occurrence.
- **Online Support Desk (=OSD)**
 - Pasting text in the window of an OSD message using Ctrl+V now works correctly.
 - Archived files sent from a Japanese OS are now extracted without errors.
 - Marking incoming messages as “Read” now works correctly.
 - In case an update was canceled, *ClearSQL* no longer repeats the attempt to update on the next application startup.

REMOVED FEATURES

- **Import/Convert Projects**
 - Removed the “Import/Convert Projects – ClearSQL 4.3 and older” feature as irrelevant.
- **Preferences**
 - Removed the “Flat toolbar buttons” option from the General page as irrelevant.
- **Installer/Updater**
 - Removed the “Create a Quick Launch icon” check box from the installation wizard.