

PL/SQL Developer - News

July 11, 2013 - Version 10.0.5 released

Enhancements

- Test Window editor could not undo changes that were made before the last save
- You can now use an Excel=<filename> directive in a comment section of the SQL Window to set the filename for Excel export. Supports environment variables (e.g. %date%)
- Compare Table Data would generate a script with CR/LF pairs for single LF characters in the source table
- Double-clicking on the tab of a docked tool would undock it
- Breaking debugger execution on Oracle11g could cause a hang-up
- Table Definition Editor storage properties did not work correctly in combination with a language pack
- Test Window vertical splitter size was too small

June 6, 2013 - Version 10.0.4 released

Enhancements

- New SQL Window preference: "Include row number with export and copy"
- Compile Invalid Objects and Find Database Objects now support multiple object selection
- Object Grids now perform double-click action when pressing the return key
- Standard Query form now provides a selection list for the Object owner and Object name
- New command-line parameter "RecoveryDir" to specify the directory for recovery files
- Find dialog would show selection size on the status line when scope is "Selection"
- The redo function did not work in the modal text editor form
- PL/SQL Beautifier would duplicate text when used immediately after deleting a column selection
- Docking windows were not always on screen when switching multi monitor layout
- Compare User Objects could see differences in triggers due to owner prefix in the source
- Compare User Objects could see differences in trailing semi-colons in type specifications
- Special Copy menu items were not available in preferences to assign shortcut keys
- Fixed possible hang-up during Find & Replace All
- File > Reopen submenu item did not have a shortcut

May 6, 2013 - Version 10.0.3 released

Enhancements

- Startup performance improvement
- Performance improvement when changing the main connection

- Performance improvement opening user selection lists
- Performance improvement fetching table DDL
- Compare User Objects could implicitly enable/disable/drop triggers for selected tables
- A newly created table would be displayed in the Object Browser if the owner is different from the user selector
- Fixed "Control dxDockTemplatePanel has no parent window" error
- Crash Recovery list size corrected and now resizable
- Fixed "Cannot open file docking.ini" error
- To-Do List "Goto" function did not update Code Contents location
- Editor popup menu item To-Do Items > Show List did nothing
- Large Data Editor Text tab page did not display Chinese text with sufficient spacing
- Command Window and Report Window did not display Unicode text in error messages correctly
- Table Definition Editor did not show "compress for all operations" correctly on Oracle 11.2
- Session Window "Auto Refresh" option did not always refresh session list
- Desktop configuration, Project configuration and Crash recovery now include pinned/unpinned window status
- Import and Export Tables tools now restore previously used window size
- Typing owner.name in the Data Generator table name field would discard the owner
- Some text could be truncated on the Project Compilation progress form
- Long identifier marks did not always disappear after correction
- Paste from Host Language now also detects Delphi #0D#0A string expressions
- DBMS Scheduler fonts did not consistently follow grid font preference
- Query Plan could sometimes be empty in the Plan Window
- Change password dialog now shows user@database in the title
- Changing the main connection when an unpinned window was executing would block the IDE until execution is finished

April 4, 2013 - Version 10.0.2 released

Enhancements

- Fixed occasional Access Violation during startup
- Oracle Scheduler View SQL button would always create a Command Window for the main connection
- Debugger SQL could fail for select statements with many columns
- Multiple separator menu items could be displayed for Plug-Ins
- Windows in the Connection List were not always updated correctly when changing the main connection
- Performance optimization fetching table DDL
- Renaming a table owned by a different user would fail with an ORA-01765 error
- Disabled SmartEd 2.0 Plug-In due to compatibility issues

March 8, 2013 - Version 10.0.1 released

Enhancements

- DBMS Output did not show UTF8 correctly
- Plug-Ins did not always show submenus correctly

- Starting PL/SQL Developer by opening a project file would start several instances of PL/SQL Developer
- Dockable tools would auto-hide when lists or popup menus were opened

March 1, 2013 - Version 10.0 released

For a description of the new features in version 10.0, visit the [New Features page](#).

March 22, 2012 - Russian language pack released

The Russian language pack can be downloaded from the [PL/SQL Developer language pack page](#) and requires PL/SQL Developer version 9.0.4 or later.

March 12, 2012 - Version 9.0.6.1665 released

Enhancements

- Fixed a resource leak introduced in 9.0.6.1661
- Connection List logon dialog could be slow

February 24, 2012 - Version 9.0.6 released

Enhancements

- New command-line parameter: InstantClient=<path>
- Connection List now has the same look and feel as other lists
- Command Window spooling from a script file now saves the spool file in the script directory by default
- Command Window spool command did not always work correctly for specific spool file names
- SQL Window Grid did not check string size when entered in the Large Data Editor
- Double-clicking on a file in the Windows Explorer could lead to "List Index out of Bounds"
- The "Add source to editor" function from the Object Browser could cause an Access Violation
- SQL Window did not allow data editing for table names starting with 'SELECT'
- Performance improvement when "Use DBA Views if available" preference is disabled
- Performance improvement when Code Assistant "Describe Context" is disabled
- Test Window "Start Debugger" button now remains enabled in case of privilege issues
- A variable name that starts with a semi-colon in the debugger watch list would cause an ORA-03113 exception
- Export User Objects tool now adds a "set define off" command to the script
- Export User Objects tool now adds the "force" option when creating views
- Test Window tab pages disabled while running (could cause a hang-up)
- Code Assistant now supports record type constants
- Editor AutoReplace function did not work within comment blocks

January 24, 2012 - Version 9.0.5 released

Enhancements

- Code Assistant performance improvement for table/view column lists
- Registry tab page if the Support Info screen did not display DWORD values correctly
- A duplicated user did not show role privileges in SQL statements when no new user name was provided
- Object Browser double-click action and drag & drop action could not be defined for database link type
- Subprogram declaration popup could be truncated if it included comments
- Dates < 1901 were not copied correctly to Excel 2007 and 2010
- Selecting a previously logged off connection would not always log that connection on again
- SQL Window and Test Window did not display SYS.XMLTYPE attributes of an object field
- Typing a target schema name in the Compare Table Data tool could cause an "Invalid Typecast" error
- Compare User Objects and Compare User Data did not show the source owner in the generated script comments
- Compile Invalid Objects tool could raise "Null password given" error in single connection mode
- Auto Refresh for SQL Window in single record view could steal the focus from the top window
- Command Window would not allow cursor left beyond the prompt size

December 20, 2011 - Version 9.0.4 released

Enhancements

- Modifications for German, French, Spanish and Chinese [language packs](#)
- Compile Invalid Objects would show no invalid objects when session was killed
- Report Window could not break on field names with international characters
- Pasting a record in the SQL Window result grid could lead to a "Column index -1 out of range" error
- Compare User Objects did not prefix table with target schema when dropping constraints
- Table DDL could be incorrect for object columns when not connected as owner
- Date fields were not always exported correctly to xlsx when am/pm date format was used
- Editor and Grid did not allow Alt-0128 to insert Euro sign
- Initial connection dialog did not always show last username and database
- Define Connections menu added in Tools menu
- Standard Query popup menu did not work for project items

November 24, 2011 - Version 9.0.3 released

Enhancements

- NLS_LANG and TNS_ADMIN command-line parameters added
- PDF export from Report did not give correct result for screen DPI other than 100%
- Directory preferences now support environment variables
- When using a language pack the default templates were not always found
- Export to Excel as xlsx would not handle AM/PM correctly
- Improved Excel xlsx export for UTF8 characters
- Cursor position in status bar would not always show correct character position with selections
- Pasting data in a grid with a selected column could start on an incorrect row number
- Diagram Window, Items > "Order as created" did not work correctly for added fields
- Character Set Mismatch warning will now only be displayed once for a connection
- Command Window did not interpret alternative quote delimiters
- Code Assistant on lower split editor in Program Window did not always display at the optimal location
- Text Importer and ODBC Importer now convert invalid field names to valid table column names
- Import Table in PL/SQL Developer format could lead to "ORA-01722: invalid number"
- Editor: AutoReplace function key now also works if AutoReplace preference is disabled
- Editing when disconnected could implicitly connect
- DBMS_Output longer than 4000 characters per line would lead to ORA-06502
- Test Window function "Start Debugger" could remain disabled in Single Connection mode
- Opening a Constraint folder could show a message with the query text
- SQL Window performance improved for inline view queries
- Added warning for "expand all" browser items
- Session > Log On could lead to "Null password" error when session is subsequently used
- A renamed Program Window would get its original name restored after saving

October 13, 2011 - Version 9.0.2 released

Enhancements

- SQL Window Linked Queries did not work for constraint names with Unicode characters
- Session > Log off did not always succeed for the main connection
- Session > Log off could be incorrectly disabled for the main connection
- Command Window "HOST" command did not work on Windows 7 x64
- Setting the main connection in single connection mode is now disabled if one or more windows are running
- Logon did not always work in Single Connection mode
- Logging off with an open Command Window could lead to "ORA-01005" error
- Fixed "ORA-1005 null password" error
- Performance improvement fetching Code Assistant names

- Prevent "List index out of bounds" when clicking on Window List
- Code Assistant now sorts user objects by name instead of type, name
- Code Assistant did not always work for user object lists and object method parameter lists
- Applying a filter to an Object Selection List with no matches would lead to an unusable list
- Smart Indent did not always work correctly when Smart Fill option is enabled
- Compare User Objects with NLS_LENGTH_SEMANTICS=CHAR could cause incorrect differences
- Changing the Table Definition Editor connection in "Single Session" and "Dual Session" mode did not work properly
- Object Selection List filter would accept space as delimiter
- Adding a Test Script to the Test Manager would incorrectly copy the variable value/type
- Adding a User Defined Tool before a main menu item would add multiple menu items
- Searching in Projects could lead to a "file not found" error
- Log Off in Single Connection Mode with DBMS_JOB editor open could ask for password
- Querying BFILE columns could cause ORA-22290
- When restoring windows in single connection mode, different connections could be used
- Toolbar button configuration displayed two incorrect buttons
- Automatic Statistics did not always work after changing a connection
- User Defined Object Browser Folders with object list could show incomplete contents
- Fix conversion error message for Excel export when date format is incorrect
- Object Browser Constraints root folder did not apply user selector filter
- Object Browser Constraints root folder would show constraints from recycle bin
- Reports would not always show sums on breaks
- AfterConnect.sql script was not always executed when changing a window connection
- SQL Window record number column was not scroll locked
- Using Ctrl-C in the Object Browser would not always copy the full object name

September 5, 2011 - Version 9.0.1 released

Enhancements

- Fixed incorrect post button status after posting & committing a CLOB value in Single Record view
- Fixed "Session Undefined" error
- Queue table DDL could specify 'ENQUEUE_TIME' instead of 'ENQ_TIME' in the sort list
- Standard Command Window variables _O_VERSION, _O_RELEASE, _USER and _CONNECT_IDENTIFIER were not always defined
- Execute button would not be enabled after logging on in Single Connection Mode
- Popup menu item "Change Window To" would always use main connection for the resulting window
- SQL Window refresh record could fail for tables with an XMLTYPE column
- Fixed "ORA-01460: unimplemented or unreasonable conversion

- requested" on 9.2 and earlier UTF8 databases.
- Explain Plan for update and delete statements with table alias did not convert PL/SQL variables correctly
 - Command Window prompt would not be updated when selecting a connection from the list
 - Debugger did not display collection items indexed with a variable
 - Typing in the Debugger watch list could sometimes swap the first and second character
 - Find function did not work from Support Info dialog
 - SQL Window would not show information about posted changes when "Show Dictionary Info in result grid" was enabled
 - SQL Window would not always interpret alternative quote delimiters correctly
 - Compare User Objects could not apply changes for Views with comments
 - Excel xlsx export now uses the current date/time format
 - Fixed Project Groups visibility issue
 - System privilege "administer resource manager" was not granted/revoked correctly
 - Duplicate names were not displayed correctly by the Code Assistant
 - Change Window to another type could fail when focus changed to another window
 - Log on did not always clear the Connection button in windows
 - Reconnecting all windows to another connection now implicitly logs on
 - Some synonyms for V\$ views were not translated correctly (e.g. v\$object_usage)
 - Changing a connection of a window would commit the current transaction, regardless of preference
 - Export to Excel XLS could give incorrect column formats for second page
 - New SQL Window preference: "Refresh posted records"
 - Querying a table with a column of an inaccessible type could lead to an Access Violation
 - Invoking the Large Data Editor could lead to "The configuration registry could not be read" error
 - SQL Window query performance improved
 - SQL Window AutoSelect SQL performance improved
 - Code Assistant could display duplicate items from CANames.sql
 - Performance improvement when loading files from a network drive
 - Compare User Objects could not create queue tables by pressing the Apply button
 - SQL Window status line would show only the first line of a column comment
 - Main connection indicator colors could be set when logged off
 - Editor Copy now always uses white background color
 - Selecting "Other" from the connection list in a window status bar now directly shows the Logon dialog
 - SQL Window performance improvement when executing large scripts
 - Explain Plan Window would wait for other queries to finish in Dual Session Mode
 - AppData directory is now properly determined (preferences and files are copied from old location)
 - Text color improvement for the connection indicator
 - Key Configuration could sometimes be cleared
 - Explain Plan function would incorrectly remove into clause for field lists with subselects

July 19, 2011 - Version 9.0 released

For a description of the new features in version 9.0, visit the [New Features page](#).

June 11, 2010 - Version 8.0.4 released

Enhancements

- SQL Window would always print SQL text, disregarding "Print SQL" preference
- Searching within special text (strings, comments) could be slow
- Key Configuration preference could reset to default instead of using the defined keys when using multiple preference sets
- Export to Excel would interpret data beginning with = as formula
- Column names starting with a digit were not implicitly quoted in SQL statements
- Fixed issue with search in selection where incorrect characters could be replaced
- Duplicate items removed from description window
- View/Edit Data for tables with an owner with special characters would not add quotes to the owner
- UTFE characters were displayed incorrectly when Unicode support was enabled
- Loading the Macro Library could fail on Windows 7/Vista, resulting in a "list index out of bounds" error message
- Debugger could hang after an exception on Oracle11g
- Code Assistant can now complete database link names
- Copy all to Excel in the SQL Window would not have correct formatting on the second sheet
- To-Do Item List was not up-to-date when opening a package spec & body

April 2, 2010 - Version 8.0.3 released

Enhancements

- Fixed Access Violation when dragging & dropping an empty item in the Logon History
- Fixed Access Violation in the File Browser when adding a new folder
- Order of items after "Open All Items" from a project was not correct
- Project Groups could be removed after doing project options
- Find would not work correctly with a column selection scope
- Edit > Selection > Apply Syntax Case/Color Mark/Comment did not work for Column Selections
- Describe Window now also shows the view comments in the header
- Export Tables would change nls_date_format in single session mode and dual session mode
- Auto Replace now supports Undo to continue with "non replaced" text
- Debugger can now show PL/SQL Table elements indexed by a string
- Object Browser could sometimes perform "double-click" action when using the cursor right key
- Unicode characters from DBMS_Output were not displayed correctly
- Right-clicking on an empty area in the Window List did not show the popup menu
- Highlighted search hits are now cleared when editing the text
- Fixed drawing performance issue with Diagram Window in zoomed mode

- DDE now remains enabled for Windows Explorer open command (DisableDDE parameter to revert)
- PL/SQL Developer main window could not always be minimized
- To-Do list would not always be updated when switching editors in a Program Window
- Case expressions could cause incorrect "Unused assignment" hints
- File Browser would not show all files for large directories (>1000 files)
- Support Info showed OCI Version 11.1 on a 10.2 client
- Export Tables tool will limit the line size to 2400 characters in SQL Inserts format for SQL*Plus compatibility
- Reports did not always calculate subtotals correctly
- Compiler Hints could not be enabled/disabled

February 11, 2010 - Version 8.0.2 released

Enhancements

- Required version for French, German, Spanish, Russian and Chinese Language Packs
- SQL Window print would not always print date in header
- Window List order was not always preserved
- Large Data Editor text could be invisible
- Ampersands in field names would lead to accel keys in grid headings
- User Editor now adds quotes to password when needed
- Object Browser would show duplicate columns when a cluster with the same name exists
- Incorrect "Not all records are fetched" warning could occur in the SQL Window
- PL/SQL Beautifier option "Split join expression before ON" did not always work
- Timestamp fields were not formatted correctly in Single Session Mode

January 7, 2010 - Version 8.0.1.1502 released

Hotfix for the following 8.0.1 issues

- File > New > Program Window submenu and could be empty
- Object popup menu item "New" could do nothing

January 5, 2010 - Version 8.0.1.1501 released

Hotfix for the following 8.0.1 issues

- Code Assistant did not work anymore for subselects
- Unpinned dockable tools did not always retract

December 14, 2009 - Version 8.0.1 released

Enhancements

- Fix for MonitorFromPoint Access Violations
- File Browser would not always sort the files
- Parentheses would not be highlighted when the closing parenthesis is

- the last character in the editor
- SQL results, Copy To Excel would not wrap at 64K rows
 - Exporters have an option for ANSI (plain text) export (a second option in the file dialog filters)
 - Session Window headings would be empty after reconnecting to a newer Oracle Server version
 - Shortcut for Edit > Full screen changed from F to L to remove duplicate with Find & Replace
 - SQL Window could mark edited number fields without scale and precision as invalid (red)
 - Project popup "Object Options" is now disabled when not logged on
 - Text Editor of the Large Data Editor did not have the editor background color
 - When registering file types, Application will also be (re)registered
 - Open <cursor> for <with statement> was not beautified correctly
 - Declared exceptions were not highlighted in the Program Window
 - Variable highlighting and Code Assistant Popup did not work consistently for Triggers
 - Changing the window type would incorrectly convert Unicode characters
 - Dropping and purging multiple items now has progress bar and Esc option
 - Holding the mouse cursor over an indexed item during debugging did not show the value
 - System privilege selection list of the User Editor was too small (4 items)
 - Resolving table names failed on Oracle Server 9.0.x
 - Text Importer, paste data would not always work
 - Code Assistant pane could be trimmed by window edge
 - Editing Scheduler Date/Time fields could lead to '<date/time> is not a valid date and time' message
 - Project Groups now fully support Unicode names
 - SQL Window Previous/Next SQL keys did not work when no result grid was present
 - Docking panes would retract when popup menus or dropdown lists were displayed
 - Query Data and Edit Data functions did not handle mixed case identifiers correctly
 - Code Assistant could popup after executing a SQL Window
 - SQL Window Column Total > Count now only counts non-null values
 - SQL Window Column Total > Sum precision improved for 0.0 results
 - Command Window RunTestSet command could not read directory/file names with spaces
 - PL/SQL Beautifier "Init Caps" option would capitalize single character prefixes (P_Empno instead of p_Empno)
 - Fixed File Browser bug repeating the same subdirectory
 - Object Browser Double-click action was unpredictable (would expand/collapse instead)
 - SQL Window timer would keep counting while an error message was displayed
 - Fixed Access Violation in TreeNode.GetParent
 - AutoReplace was only invoked when positioned before a whitespace character
 - DBMS Output could not process lines longer than 4000 characters
 - SQL Window Export Query Results button would mess up results with multiple result sets
 - PL/SQL Developer would give an incorrect "owned by different user" warning with a loaded file when switching users
 - Support added for 'identified by values <encrypted password>' clause

for User DDL

- SQL Window would always print with the Courier font
- Fixed bug with file names in title and window list and projects when using desktop parameter
- Keywords are now saved under Application Data in the user profile
- When updating a schedule, start_date and end_date could be updated without making a change
- Browser Object status would not always be updated correctly after docking/undocking
- DBMS_Metadata functions did not retrieve UTF8 text on a non-UTF8 client
- Code Assistant would not describe embedded object types (e.g. Person.Address.)
- The Object Browser did not show columns for Bitmap join indexes
- Window List will draw faster
- LANGUAGE=<xxx.lang> command line parameter added
- Fixed Access Violation in Data Generator
- Copy grid selection did not add cr/lf after the last line
- Command Window would sometimes need <enter> twice to execute recalled statement
- Invoking the PL/SQL Beautifier did not update the Bookmark List
- PL/SQL Beautifier could not parse merge statements with case expressions
- Floating tools could steal the focus after using the Find & Replace function
- Double-clicking a project file will open a new PL/SQL Dev instance
- A newly created SQL Window after pasting a SQL text on the PL/SQL Developer work area could be closed without a "Save SQL Window" warning.
- Code Assistant did not list parameters for locally declared object functions or procedures
- Command-line parameter NoCheckFileDate added to suppress checking for changed files
- SQL Window Copy All To Excel did not set cell format correctly
- Commit/Rollback buttons could have wrong status after a cancelled import
- Project Build could give continuous error message for deleted files
- Comments before a program unit could be indented incorrectly
- Code Assistant popup could hide partially under Windows taskbar and/or sidebar
- New PL/SQL Beautifier rule "Split JOIN expression before ON" added for 7.1 compatibility
- Substitution variable integer validation was limited to a 32 bit integer
- Pipelined functions could lead to incorrect "function does not return a value" hint
- AutoReplace is no longer automatically invoked when typing comments or strings
- SQL Window could give a "not all records are fetched" warning in Single Record Mode
- PL/SQL Beautifier would not always format item lists correctly for a WITH statement
- Search > Replace All did not always work correct ("" replace by " would give ')
- Improved multi monitor dialog positioning
- Execute button was not updated correctly after saving a read-only database source
- Inserting and Updating CLOB's and BLOB's through the SQL Window

now uses Temporary LOB's on Oracle 8.1 and later to facilitate trigger testing

- Compare Table Data could update incorrect fractions of a second for timestamp columns
- Code Assistant items can now be sorted
- SQL Window "Save as Template" option could show "Unexpected error" instead of a normal error message
- SQL Window execution time would be displayed during substitution variable form
- Notification time for long running queries would include substitution variable form time
- Object Browser double-click action preferences were not saved for dbms_scheduler types
- Code Assistant would not describe object type columns
- Two quick shift-clicks on the Window List could cause an Access Violation
- Replace All could result in an endless loop
- Hyperlink navigation from a DML statement would sometimes incorrectly navigate to the table or view
- Find menu shortcut keys would not get default values after upgrade to 8.0
- File Browser would sort case sensitive

September 26, 2009 - Version 8.0 released

For a description of the new features in version 8.0, visit the [New Features page](#).

May 26, 2008 - Version 7.1.5.1398 released

Hotfix for the following issue

- Posting NVARCHAR2 unicode data in the SQL Window could lead to truncated results

April 18, 2008 - Version 7.1.5.1397 released

Hotfix for the following issues

- SQL Window would not parse statements correctly when immediately followed by comments after the semi-colon
- Compiling a program unit with debug information on an Oracle11g database with PLSQL_WARNINGS='ENABLE:ALL' would lead to a PLW-06015 warning

March 25, 2008 - Version 7.1.5 released

Enhancements

- Fixed some access violations
- Inserting a record in the SQL Window would pass null for Unicode columns instead of omitting it from the inserts statement
- Support for the ODAC instant client added
- Translated help files were not used
- Performance improvements for some dictionary queries

- SQL Exporter did not export very old dates in date format
- SQL Exporter could export floats with comma as decimal separator

November 2, 2007 - Version 7.1.4 released

Enhancements

- XML editor of the Large Data Editor replaced tabs with spaces
- Files copied in the Windows Explorer can now be pasted in PL/SQL Developer
- Program Window preference "Safe compilation" could not handle quoted program unit names
- Internal HTML Viewer did not process Ctrl-C
- HTML Help indexing did not work for older Oracle versions
- Test Window variable hints would not always be cleaned up
- SQL Window would always switch to SQL tab after execute
- Text Importer would not show correct count if some records failed
- Large data Editor now updates the size while editing
- HTML Book Path was not determined correct under Vista
- Compile Invalid Objects tool could show "Properties of <object> not available" after reconnecting
- Tab order in message boxes with "Don't show this message again" option was confusing
- Command Window beautify command would save files in UTF-16 format
- New Plug-In functions: BeforeExecuteWindow and AfterExecuteWindow
- Optimization of dictionary view queries
- Fetching View DDL from the dictionary now removes trailing empty lines
- Printed query plans could be truncated
- Folders for Jobs and Queue tables added to the User > Objects folder of the Object Browser
- Preferences could ask for "save changes" when nothing was changed
- Adjusted HTML Help default book selection for Oracle 11g compatibility

September 27, 2007 - Version 7.1.3 released

Enhancements

- Windows Vista compatibility improvements:
 - Setup is now fully Vista compatible
 - Registering application and file types is now Vista compatible
 - Writing files takes Vista security into account
 - Macro recorder did not work
- Improved indexing method for HTML Help
- Find dialog would not reopen normal once closed minimized
- SQL Window now only handles forward slash as a command separator at beginning of line
- Reloading changed files did not work correctly for SQL Window
- Copy from a grid did not work when "Include Font Style with Copy" preference was enabled
- Copy (without header) added an empty first line
- Replaced sys.all_synonyms & sys.dba_synonyms by all_synonyms and dba_synonyms to allow for private or public synonym replacement for these views
- Table partitions for index organized tables on Oracle9i and earlier did not show

- Source files in Unix format (LF instead of CR/LF) would not always be parsed correctly
- Command Window would not handle "whenever oserror" correctly
- Command Window "beautify" command did not handle Unicode characters correctly
- Command Window would allow mouse to place the cursor before the prompt on the command line
- Large Data Editor, text editor did not wrap text correctly
- Explain Plan Window could not handle XMLQuery with RETURNING CONTENT clause
- SQL Window could not edit data from a table across a database link
- Pressing enter when selecting a substitution variable value from a list would also close the substitution variable form
- Tables from the recycle bin would show up under Users > Objects > Tables in the Object Browser
- User Export Objects with the "Include Owner" option did not include the correct owner for foreign key references to tables of other owners
- FLOAT columns would not include precision
- Copy/Paste in result grid improved to handle quotes better
- Projects could not handle files with comma in path
- Fixed Access Violation when changing window type to Program Window
- Plan Window did not show correct when changing window type maximized
- ODBC Importer could use invalid variable names (based on ODBC field names)
- Command line parameters viewobject and editobject did not work correctly

August 13, 2007 - Version 7.1.2 released

Enhancements

- Describing a program unit on an Oracle7 client or server would give incorrect parameter names
- Switching to the log tab page after a Table Import could lead to hang-up
- Command Window could give wrong highlighted text for errors
- Data Generator Sequence Within Parent option did not work
- AutoReplace templates inserted a space before the text
- Inserting Templates would add a line break
- Import Tables: clicking on the From/To User combo box would cause "Invalid class typecast" error
- Selection Uncomment did not always work
- Views did not handle Unicode characters correctly
- Large Data Editor did not handle Ctrl-Insert as copy
- Large Data Editor had an issue with trailing blank lines
- Escape did not always close Large Data Editor, depending on current tab-page
- Save As did not work when a window was renamed
- Preferences could have the "changed" flag set when nothing was changed
- Fixed logon history could have spaces in front of logon
- Project open/re-open/new did not work correct when a project was already open
- Project Re-open dropdown could display trimmed data
- Command Window AutoReplace could stop working after an execute
- Import Tables tool did not import Unicode CLOB's correctly in PL/SQL

Developer format

- Find (& Replace) did not work correctly with collapsed code
- New editor preference: "Variable horizontal scrollbar"
- Window List redraw improved (flickering while compiling and speed)
- Large Data Editor: External Editor did not always convert text correctly
- Splash Screen hides after 30 seconds inactivity to prevent waiting for hidden dialogs
- Program type or name was not always correctly determined in the Program Window, when preceded by a large amount of comment
- Text Importer would not handle string fields correct in SQL function # replacement
- Drag & Drop DDL into an editor would give incorrect capitalization when Keyword Case preference is set to Uppercase
- Import Tables: removed 80KB limitation for the import buffer size
- Browser folder Users > Objects did not have a Materialized views subfolder
- Compare User Objects Show differences button would fail when using EZConnect database names
- Disabled wList Plug-In due to compatibility issues
- Querying and editing Long columns with UTF8 data did not work correctly
- Edit > Selection > Uppercase/Lowercase/etc would not enable undo button
- Template would not set cursor [#] at end
- Modify Breakpoints popup was not available in Test Window
- Cursor fields could not be queried on Oracle 9.2 and later
- User-defined browser folder queries did not follow the "Use DBA Views if available" preference
- PL/SQL parser could not handle FUNCTION or PROCEDURE as a column or variable name
- Program Window could not handle REM or PROMPT commands with certain PL/SQL keywords at the start of a file
- NCHAR character set UTF8 could lead to ORA-1461 when inserting/updating multiple NCHAR columns
- Default value for a checkbox substitution variable did not work
- Drag & Drop from the Object Browser to the Test Manager did not work
- Custom syntax highlighting through Plug-In interface works again with different styles (highlighting Plug-In)
- Fixed issue with syntax highlighting that could show all highlighting identical
- \$ and # and . will be recognized as keyword characters for word select and highlighting
- Variables Window will remember size and position
- Large data Editor, XML Editor did not show node values
- Updated "Roll Up/Down" buttons for Vista compatibility
- Folded code did not unfold when navigating to a compilation error, navigating from the Code Hierarchy, and jumping to a bookmark
- All file dialogs are now Vista style when using Windows Vista
- Object Drag & Drop text now adds an empty line at the end
- Compare Table Data errors would cancel compare operation, even if "Ignore" was selected
- HTML Help window would not reopen correct when maximized
- PL/SQL Beautifier now clears the line status
- Sequence Definition Editor did not allow negative numbers for Min value, Max value, and Start with
- SQL Window result set foreign key lookups no longer fetch BLOB or CLOB values

- Table Definition Editor did not update Tablespace when pressing the Refresh button
- Code Assistant would freeze while a query is running in the same window
- Hyperlink navigation now always centers the target position in the editor
- Right-clicking on a large selection could cause a long delay with 100% CPU utilization
- Copy from result grid would not copy the first empty cells
- Keywords Case setting could result in question marks for Unicode characters
- Added "Copy to Excel" popup option for Statistics in SQL Window and Test Window
- Removed incorrect "SQL File" export option for statistics
- CSV exporter now uses the Windows defined "List Separator" instead of a fixed comma
- <Shift>+<Enter> key will now behave as <Enter>
- PL/SQL Beautifier will handle custom keywords as keywords
- Invalid regular expressions could leave Find Database Objects tool in an unusable state
- SQL Window result grid did not follow the "Use multi-row tabs" preference
- Custom keywords with a dot (e.g. package.function) were not highlighted
- View DDL is now always terminated with a semi-colon
- <Shift>+<Back> will now behave as <Back> in Grids
- Command Window could fail when repeating commands in Single Session Mode
- Starting PL/SQL Developer by opening a document from the Windows Explorer would not always work
- The NOREGISTER parameter now also prevents the "service contract expired" message
- Editor margin could disappear for Java Sources in the Program Window

May 10, 2007 - Version 7.1.1 released

Enhancements

- Printing could be limited to the first 10,000 characters
- Number keys would not work in editor if bookmark function keys were undefined
- Printing line numbers did not work
- Some characters could be truncated in the editor for smaller font sizes
- AutoReplace now supports templates (right-click in the AutoReplace editor)
- Added an "Editor: AutoReplace" key
- Pressing the <Enter> key would not always work in the Command Window
- Character set detection was not correct for Instant Client
- PL/SQL Editor memory leak & performance issue fixed for large comment blocks when using variable highlighting
- Special Characters preference added
- Table privileges were not editable
- Color marks would disappear when marking a selection
- Fixed issue where PL/SQL Developer would exit/crash on startup
- Find dialog did not show for some windows without an editor
- Registering an expired trial version could give a 6 days left message on

the first run

April 23, 2007 - Version 7.1 released

For a description of the new features in version 7.1, visit the [New Features page](#).

September 22, 2006 - Version 7.0.3 released

Enhancements

- Unicode support added for query results in the SQL Window, Test Window and Report Window
- Added "Unicode enabled" preference
- Test Manager files can now be added to a project
- Esc can now be used to break entering a command in the Command Window
- Support added for WMF/EMF in the Large Data Editor
- XML Editor now shows collapsible code
- Windows that are still executing SQL or PL/SQL can now be forcefully terminated
- Command Line parameter DESKTOP=<name> added to save/load desktop layout
- Find & Replace dialog now shows the replace count
- Report Window now support HTML tags in results to show images, links, and so on
- Expand all and Collapse all popup items added to the XML Editor
- Fixed possible "Range Error" when starting on a PC that was running without a reboot for a long time (>20 days)
- Internal Query Builder would not allow creating relations by dragging columns
- Improved Text Importer data analysis to autodetect fields
- Fixed "Out of resource" errors
- Some configured keys would be cleared after a template window refresh
- Command Window sqlplus command would not add quotes on a filename with spaces
- Data Generator would not handle duplicate functions for the same field correct
- SQL Window grid would interpret specific defined shortcut keys (e.g. ctrl shift p)
- Recovery files would not always get detected/loaded (window handle issue)
- Key preference for Editor <end of line> / <begin of line> is now used (was fixed to Home / End key)
- Adding files to project would not always autodetect file type
- Data Generator handles date conversions better
- Alternate row colors now works properly for sorted grids
- Preferences were stored on startup, possibly overwriting preferences of a second instance
- Continuing a query in a SQL Window with multiple queries could cause "List index out of bounds" error
- SQL Window result grid had lost the 'fixed' row number column
- Program Window could not parse sources with large amounts of comments before "create or replace"
- Unused parameter/variable hint could be missing if the name was only used as a parameter name
- Hyperlink navigation did not work for table or view aliases

- Recompiling a trigger after a debug session would incorrectly update the trigger source in the debugger
- Session Window columns are no longer reordered for session filter queries with an explicit column list
- MERGE statements were not automatically picked up for the Explain Plan (F5) function
- Compare Table Data would raise "column is not a timestamp" error when comparing timestamp columns
- Placing the Triggers Browser folder in the Tables Browser folder would cause an Access Violation
- Unused assignment hints could be missed when multiple statements are placed on one line
- Shortcut keys for special copy items did not work
- SQL Window Next/Prev record in single record view did not work correct for sorted results
- Collection attributes within embedded object fields could not be queried
- Command Window now spools to preference directory or script directory by default

May 15, 2006 - Version 7.0.2 released

Enhancements

- Delete Program in Program Window now asks for confirmation
- Text Importer could generate field names like "FIELD__TYPE_"
- Text Importer: added 'End at line-end' preference to allow importing records with a different number of fields per line
- Diagram Window fixes and enhancements:
 - "Save as image" and "Copy as image" added
 - Bug fixed with printing/save/copy when scrolled
 - Bug fixed with printing/save/copy which could clip lines at the right
 - Fixed some moving/aligning issues
- Fixed some Query Builder issues selecting fields
- Query Builder did not allow sorting of fields, now possible in "parts" section
- Added a warning for actions on an incomplete result set in a SQL Window
- Fixed some multi-monitor issues:
 - Position of Splash screen / progress dialog
 - Position of message boxes
 - Restoring main window on a specific monitor
 - Windows created on secondary monitor would be positioned wrong
- Logon History could get reduced
- Saving in Unix format could use CR line separator in some editors
- Saving (recovery) files would scroll cursor into view
- Not all key definitions would work in all editors
- Added a "file dialog details view" preference
- Command Window: SET SQLPROMPT added (same as SET PROMPT) with case sensitive [params]
- Macro Library improvements:
 - Fixed bug pasting from one macro to another
 - Selections can now be moved up/down
 - Removed FF items
- XML Editor could have initialization problem caused by registry write

access

- HTML Help improvements:
 - Improved detection of description
 - Improved support for Oracle 10 html files
 - Store HTML Document directory
 - Remember selected books after a new build
 - Books were not sorted
 - Search now for separate words (google style)
- Command Window with formatted output did not handle output with linebreaks very well
- Save Layout didn't work properly for Text/ODBC-Importer
- Compare User and Compare Data could be slow saving large results from editor
- Compare User Objects would sometimes not see dropped columns
- Stack dump would display type specification instead of type body
- View DDL did not include UNDER <Superview> clause
- Large Data Editor was not always accessible in SQL Window with multiple result sets
- Substitution variable escape (&&) did not work if no other substitution variables were present
- Object View DDL could include column aliases
- Empty line could appear for cache clause in Table DDL
- Compare Table Data tool did not always include time fraction of date values
- Refactoring Rename function could not rename exceptions
- Refactoring Rename function would also rename parameter names in procedure/function calls
- Hour Glass is now displayed when connecting to the database
- Locating text in a source from within Find Database Objects would not always find the first occurrence
- SQL Window Single Record view mode preserved with a single result set
- User Definition Editor did not always set Password expire state correctly
- New preference: Files > Format > "Export to Excel with SQL statement"
- Added OnTemplate in Plug-In interface
- Desktop popup extended with some items from the File menu
- Improved auto detection of number/string in Text importer (multiple dots)
- Setting the hot track color to the editor background color would hide all highlighted text
- Clicking on the status line in a SQL Window for a cursor result set would clear the results
- Clearing results in SQL Window will now set focus to Editor
- Bookmark list is now immediately updated when closing a window with bookmarks
- Editor column selection did not work correctly if first visible line was empty
- SQL Window popup menu item "Clear results" was missing for commands without a result set
- When printing with header, a long filename would not always fit
- Text Importer now uses field types from Oracle if possible
- Command Window could not handle REM-- as comment
- Support added for Oracle10g alternate quoting (e.g. Q'[Don't care]') for syntax highlighting, PL/SQL Beautifier and Code Contents
- Substitution variables could not parse lists that span multiple lines
- The correct preference set would not always be calculated if not

connected

March 1, 2006 - Version 7.0.1 released

Enhancements

- Fixed several ODBC Importer issues
- Fixed "Not enough storage" problem
- Several SQL Window parsing errors fixed
- Added two parameters for HTML books:
HTMLBooks= to determine the directory for the book index files
HTMLBookSelection= to determine the path for the book selection
- HTML Export did not use character set and header preference
- Hint preferences grid did not always show scrollbar
- CSV Export did not export null values in the first field(s)
- Report Window layout grid selection lists did not work correctly
- Comments were removed from statements when stored in the recall buffer
- SQL Window would allow tab changes during execution, which could cause errors
- SQL Window fetch buttons would focus editor after completion
- SQL Window "Executing..." message would immediately be cleared
- SQL Window QBE query is now displayed again for scripts with 1 statement
- SQL Window column width and order preserved when re-executed
- Switching from Single Record view could cause "Row index out of range" error for empty result set
- SQL Window could not be switched to Single Record view for cursor result sets
- Preferences menu item groups (at the left) would not always have enough room for contents
- User Interface preference "Autocomplete dropdown lists" added
- User Interface preference "Position messageboxes near mouse pointer" added
- Edit > Next/Previous Tab Page could cause hang-up or error message
- Added Shift-Delete/Insert (cut/paste) in Large Data Editor
- Support for Templates in Explain plan Window popup menu
- Pasting data in Grid could give empty value on next row
- Edit Object Window could not copy/paste grid data
- Explain Plan now also enabled for insert statements
- Comments in the where clause of a browser filter could cause "missing right parenthesis" error
- Double-click on a Job in the Browser would do nothing
- Substitution variable history would override case of entered text
- Copied & pasted authorizations would not be saved when pressing OK
- Plug-In function IDE_ExecuteSQLReport would give "cannot focus invisible window"
- Plug-In event OnPopup was not called for Session Window popups

January 23, 2006 - Version 7.0 released

For a description of the new features in version 7.0, visit the [New Features page](#) or download the [New Features document](#) (Acrobat Reader PDF format).

November 1, 2005 - Version 6.0.6.947 released

Enhancements

- Fixed an access violation when starting the Query Builder on some Windows versions
- Fixed dbms_output ORA-06502 error on 10.2 for lines > 255 characters

October 22, 2005 - Version 6.0.6.946 released

Enhancements

- Compatible with Oracle10g Release 2
- Fixed memory leak in data generator
- plsql_debug mode only applied during compilation to prevent ORA-00600 errors
- Report Window did not recover correctly from killed session
- Improved TIF compatibility for the Large Data Editor

March 23, 2005 - Version 6.0.5.931 released

Enhancements

- Add debug information menu option did not work if "add debug info when compiling" preference was disabled

March 14, 2005 - Version 6.0.5 released

Enhancements

- Insert Template context menu would hide first item and add dummy item
- Insert Template did not show subfolders
- Connection preferences in registry (Logon section) did not work
- Projects: progress while compiling now shows actual number of compilable files (compiling: x of y)
- Projects: not all compile errors were indicated
- Projects: handled errors in command files for WHENEVER ... FAILURE
- Added missing Oracle10g plan_table columns
- SQL Window AutoSelect Statement function did not handle nested PL/SQL Blocks correctly
- Command Window could not process "create or replace type ... ()"
- Command Window could not process "create or replace and compile java source ..."
- Command Window would insert empty lines when showing dbms_output
- Command Window Show Param[eters] support added (with additional info option)
- Command Window Set Arraysize support added
- Command Window Set Time support added
- Command Window would not exit nested scripts for 'whenever ... exit'
- Command Window now supports environment vars (%var%) for commands with files (spool, @, store, get)
- Sorting a grid did not always sort strings case insensitive
- Compile Invalid Objects initial query performance improved
- Explain Plan Window now allows you to execute alter session statements for the current session

- Explain Plan item was disabled for WITH statements
- Text Editor [Esc] would activate Help
- Inserting templates no longer interprets a "/" when not creating a new window
- Pasting columns in Table Editor would give AV
- External tools now support "as sysdba" in connect string
- All items modified by Find > Replace All are now grouped into one undo action
- Code Assistant could remove spaces typed after a comma
- Using the Find function in the Large Data Editor could suppress changes
- Key configuration preference added for SQL Window: Clear Results
- Fixed problem with missing default keys
- Data Generator could not handle SQL(...) for date fields
- SQL Window column moving was not preserved after re-executing the same or similar queries
- Compile Invalid Objects would ignore objects excluded from debug information
- Application title in the taskbar could be cleared after changing a connection
- Nested if/then/else structures could lead to incorrect "Unused value assignment" hints
- Using table.column%type declarations in a Test Script would cause Code Assistant problems
- SQLPATH environment variable was not used by Command Window
- Fixed incorrect handling of formulas when exporting report to Excel
- Fixed AMPM problem when exporting report to Excel
- It is now possible to create a default user.prefs by placing this file in the default preference directory
- Recent objects folder was not properly refreshed
- Templates for a command window can now indicate to open the editor page [\$WINDOW TYPE = COMMAND,EDITOR]

January 5, 2005 - Version 6.0.4 released

Enhancements

- Package bodies, type bodies, and materialized views would disappear from user defined folders
- Opening a user defined folder when disconnected would lead to "Not logged on" messages
- Reports menu did not show directories with only subdirectories correct
- Instantiable and final member procedures were not displayed correctly in the Code Contents
- Text Importer file associations are now stored in user.prefs, not in Import\import.files
- SQL() function added to Data Generator
- Table creation DDL for partition values ending with a parenthesis were incorrect
- Popup menu in various editors were missing "Insert Template" submenu
- Fixed "cannot convert string to double" error
- Fixed problem with disappearing last row while pasting into grid
- Title of Program Window would not change from View to Edit if Window changed to Edit mode
- Command windows now displays CLOB and XMLTYPE in accordance with the SET LONG setting
- Replace All in Find dialog now also includes the current selection

- Code Assistant could not resolve local variable names in a Test Script or Trigger
- Code Assistant could not resolve variables of a type in another schema
- Command Window and SQL Window will no longer silently retry after "ORA-04068, Existing state of packages has been discarded"
- Using a variable in an exception handler could cause incorrect "Unused variable value" hint
- Double-clicking on a package in the Object Browser could display 2 Program Windows if the package body was wrapped
- Pasting data in result grid did not update NULL indicator color
- Added sound to Warning and Error messages
- Data Generator could give a "list index out of bounds" for Files() function with only one file
- Logon History did not always display all grouped items
- Fixed link to Direct Oracle Access (5 variables limit)
- Copy comma separated from browser would not work for closed folders
- Suppressed dialogs (Don't show this message again) still gave a sound
- Duplicate reports (same path and file) in reports menu prevented
- Program Window could split source on a slash in the middle of a line
- Dropping an object in the SQL Window would not update the Object Browser
- Replace All was not restricted to the selected scope
- Preference "Wrap to start / end of file when text is not found" did not work
- Using +variable or -variable could cause incorrect "Unused variable" hints
- Command Window now issues a warning when a connection is re-established
- Refreshing the Session Window with a disconnected PL/SQL Developer session would cause errors
- SQL Window always auto-sizes columns unless you have explicitly resized a column
- Recent files list is now passed to a second PL/SQL Developer instance

October 11, 2004 - Version 6.0.3 released

Enhancements

- Fixed connection delays and ORA-12154 errors when using Oracle Names 9.0 or 9.2
- Using the Large Data Editor could lead to instability
- Some applications could not be started when PL/SQL Developer is running
- Memory overhead in object list reduced (Export User Objects, Compare User Objects, and so on)
- Code Contents parse error fixed when using the words "left" or "right" in a condition
- SQL Window "Next SQL" button did no longer clear the editor after the last SQL
- Text Importer replaced only 1 occurrence of # in an SQL function
- The View function for program units would bring an already opened, editable window to the front and make it read-only
- Creating/Editing users with special characters would fail
- Fixed error while downloading updates & News details
- Preferences are now synchronized between different instances on the same PC

- Fixed problem with copy/paste multi line data in grid
- PL/SQL Beautifier would raise error for table.column expression with a space between table and .column
- XML editor would replace header with `<?xml version="1.0"?>` after making a modification
- Large Data Editor could add 0-byte to BLOB data
- Code Assistant did not come up for lower..upper expression without spaces
- Data Generator did not generate master/detail/detail data correct (only test was correct)
- Text Importer would not always handle quotes correct
- Large Data Editor could enable word-wrap in other editors
- Preference for maximum size of recall statement would not always be saved
- Improved the resizing behavior of the Plan Window
- Safe Compilation preference did not work correctly if owner preceded the object name (create or replace package scott.employee ...)
- Clear function for SQL, Command, Test and Report Window did not also clear the "Saved" indicator
- Left-clicking on a Code Contents item will now always navigate to the start of that item in the editor
- Preferences will be stored in Application Data Path if the default directory is read-only
- Not all font and color preferences were applied immediately in preference dialog
- Date format preference could be changed externally
- Changing the Session Mode preference could cause errors if PL/SQL Developer is not restarted
- Find dialog would be displayed at wrong position for multi monitor systems

September 14, 2004 - Version 6.0.2 released

Enhancements

- Partitioned tables were not detected correctly on Oracle8i
- Partitions tab page was visible when viewing a non-partitioned table
- Code Assistant did not describe materialized views
- Code Assistant did not describe record types declared in another package
- Code Assistant could remove spaces typed after a comma
- File -> Close All could lead to invisible confirmation dialog
- Font Bold & Italic preferences did not work for browser and grid
- Key Configuration preference would not handle all keys properly
- Compare User Objects could incorrectly change column properties when column order for source and target table is different
- Large Data Editor had problems with XML data with lines > 65000 characters
- Preference "Use DBA views if available" could cause ORA-00942 after switching from a DBA user to a normal user
- Compilation errors were not displayed when "create or replace" and object name are on different lines
- Could no longer connect with just / for externally identified users
- Deleting a column selection in the editor could also delete adjacent highlighted text
- Dropping a java source from the Object Browser would cause ORA-

29501

- PL/SQL Beautifier did not format all ANSI join types correctly
- On Oracle7 Explain Plan and Test function did not replace PL/SQL variables by bind variables
- Text Importer would only import 99 records when pasting from clipboard
- Data Generator did not handle a master with 2 details correct
- UxTheme related errors fixed
- Browser Folders would not save connection property
- TSV Exporter would skip first field if it was empty
- Large Data Editor now closes when pressing Escape
- Compiling a body with a missing or invalid specification with "Safe compilation" preference would give compilation errors with temporary object name
- Hyperlink navigation did not work correctly for compound custom keywords
- Hyperlink navigation did not immediately update Code Contents
- Generating a Test Script for a non-packaged program unit with parameters with user-defined types would not create local variables with correct types
- Dropping an object in the Compile Invalid Objects tool would not update the compilation error list
- Fixed a problem starting specific applications when PL/SQL Developer is running
- Data Generator number precision displayed for fields with a scale of 0 would not be correct
- Explain Plan and Test function now also replaces constants by bind variables in select statement
- Pressing a cell button in an empty Single Record grid in a SQL Window would cause an error message
- Export to Excel could display cells as #### due to column width
- SQL Window now preserves result message after navigating in result grid when "Show dictionary info" preference is set
- Tables folder in Tablespace folder in Object Browser did not list partitioned tables
- Compare User Objects memory usage optimized
- Compare User Objects list included tables from the Oracle10g recycle bin
- Fixed splitter problem and alignment of editor in XML Editor
- Oracle Logon preference "Fixed Users" is now stored encrypted
- Excel interface would not handle Japanese characters properly
- Fixed "Invalid pointer operation" errors

August 25, 2004 - Version 6.0.1 released

Enhancements

- Support for Oracle10g EZCONNECT added
- Performance of "Copy to Excel" function improved
- DDL for synonyms now uses "create or replace" syntax for Oracle 9.2 and later
- Pressing an "Auto refresh timer" button now immediately executes the Window
- Shortcuts Plug-In enabled again
- Scrollbar in Explain Plan function now scrolls all contents
- Compare User Objects would try to rename columns when column order

- is different
- Code Hierarchy did not have Explain Plan and Test popup menu items for select statements
 - Executing a Report would copy the SQL to the clipboard
 - Report would not ask for password when "locked for others"
 - PL/SQL Beautifier preview did not show effect of "Wrap zero level AND/OR" option for Control Structures
 - Proxy settings added for Updates & News
 - Renaming an object in the SQL Window could lead to incorrect "Object has been deleted" message
 - Beautifier DML Rule "AND/OR under where clause" was always enabled
 - Code Contents could sometimes be blank or out-of-date
 - Fixed various access violations
 - Explain Plan function did not replace record field PL/SQL variables in SQL text by bind variables on Oracle 9.0 and earlier
 - Safe compilation could fail if the package body contains references to objects with the same name in another package
 - Disabling the "Include Storage" option during Export User Objects would still include partition storage information
 - Text Importer now correctly autodetects text with pipelines
 - Large Data Editor now supports undo, redo, find and select all
 - Text Importer data preview would not highlight multi line fields correctly

August 10, 2004 - Version 6.0.0 released

Enhancements

- Program Window enhancements
 - Code Hierarchy pane added
 - Code Contents extended with code structure and hot tracking
 - Compiles in background if session mode is "multi session"
 - Highlight if, loop, case, and blocks
 - Safe compilation preference added
 - Save before compilation preference added
 - Oracle10g PL/SQL Compiler warnings supported
- Support for partitioned tables added
- Support for materialized views added
- Support for compressed indexes added
- Support for reversed indexes added
- Support for queues added
- Support for queue tables added
- Support for NLS Length Semantics added
- Support for LOB and nested table column storage added
- Support for column renaming added (Oracle9.2 and later)
- Editor enhancements
 - Hyperlink navigation now works in all SQL and PL/SQL editors
 - Highlight parentheses
 - Table and View drag & drop into editor can now launch the Query Builder
 - Find function can now wrap to start/end of document if the search text is not found
 - Append function added to append text to the current clipboard text
 - Sort function added to sort a selection
 - Guideline function added
 - SpecialCopy syntax extended with #define compress

- Multi-line strings properly highlighted in SQL and PL/SQL editors
 - Oracle10g keywords highlighted in SQL and PL/SQL editors
- Code Assistant enhancements
 - Support added for packaged record types and rowsubtypes
 - Support added for cursor variables
 - Support added for select statements on inline views
 - Home / End key will go to top / bottom of the list
 - Wraps to top / bottom from last / first line
- Authorization added
- To-Do Items added
- Data Generator tool added
- New preference dialog with preference sets
- External Tools generalized as External/Session Tools
- New Large Data Editor for CLOB, BLOB, LONG, LONG RAW and VARCHAR2
- Find Database Objects improvements
 - Search for object name, owner, status, creation date range, and modification date range
 - Criteria can be saved and loaded
- Export User Objects improvements
 - Include Storage option added
 - View button added to view the resulting script
- Compare User Objects improvements
 - Option added to include storage in generated DDL for new objects
 - Table column renaming supported (Oracle9.2 and later)
- Export Tables improvements
 - Include Storage option added for SQL and PL/SQL Developer format
 - Include Privileges option added for SQL and PL/SQL Developer format
- HTML Manual enhancements
 - Multi-tabbed search results
 - Roll up / roll down buttons
 - Search text history
- Object Browser enhancements
 - User defined folders added
 - Folder hierarchy
 - Folder color
 - Connection specific folders
 - Add/remove objects through right-click in Object Browser
 - Super/Subtype displayed for type objects
 - Column renaming added (Oracle9.2 and later)
 - Dropping a user that owns one or more objects is now possible after an explicit confirmation
 - Object popup menu now shows the debug information status
 - Recycle bin added for dropped tables on Oracle10g with Purge and Restore functions
- AutoRefresh option added for Session Window, SQL Window, Report Window, Test Window, and Command Window
- Added "Change Window to.." to popup menu for SQL Window, Program Window, Test Window, Command Window and Report Window
- SQL Window enhancements
 - New number layout preference: "Formatted with thousand separator"
 - New "Null Value Color" preference
 - Object Browser is immediately updated after creating / dropping

- / altering and object
 - Compiling a view will save & restore instead of triggers
 - Query can now be saved as "Standard Query" for a Table, View or Materialized View
 - Direct XMLTYPE query support on Oracle Net 9.2 and later
 - Saving a view source now provides the view name as default filename
 - Clear, Clear Result and Select All added to popup menu of Single Record view
 - ReadOnly substitution variables added
 - Hidden substitution variables added
- Test Window enhancements
 - New debugger preference "Never add debug info for objects"
 - Current debug line is now centered
 - Watches are saved and loaded with the Test Script
- Plan Window enhancements
 - Copy function prefixes each item with its name
 - Oracle10g columns added
- Command Window enhancements
 - Set prompt command added
 - Exit command can now exit PL/SQL Developer
- New PL/SQL Beautifier options
 - Parameter declaration: List at left margin
 - DML: Split at zero-level AND/OR
 - DML: AND/OR after expression
 - DML: AND/OR under where clause
 - Control structures: Split at zero-level AND/OR
 - Control structures: AND/OR after expression
- PL/SQL Beautifier enhancements
 - Support for Merge statement added
 - Support for Join syntax added
 - Constants are aligned when "Align declarations" is enabled
- Recall Statement enhancements
 - Buffer size and location Preferences
 - Export to CSV file
 - Find function
- Oracle10g Instant Client support added
- All combo boxes now have AutoComplete functionality
- Taskbar icon now only displays connection information
- File > E-mail item added
- Keyboard search in property windows
- Popup menu added to the desktop with some primary functions
- Rollup button added to Window List and Template Window
- Shift-click in Window List closes the selected window
- New command-line parameters
 - commandfile: execute a command file
 - viewobject: view database object
 - editobject: edit database object
 - nolugins: don't load Plug-Ins

March 24, 2004 - Version 5.1.6 released

Bugfixes

- Oracle10g related fixes:
 - HTML documentation was not indexed correctly

- Oracle Home was not correctly detected on an Oracle10g client
- Explain Plan Window caused ORA-01986 errors
- Debugger now requires DEBUG CONNECT SESSION system privilege
- Improved Direct Oracle Access Interface:
 - Fixed problem when returning more than 5 variables
 - Fixed possible lock when sending back modifications
 - Starting PL/SQL Developer from within Delphi/C++Builder could cause exception

March 6, 2004 - Version 5.1.5 released

Bugfixes

- Could not use LOB's or Objects on Oracle10g
- Number precision would be incorrect on Oracle 9.2.0.4 and 10g
- Fixed Plug-In function IDE_GetPopupObject from Plan Window
- Fixed Command Window problem with quotes in comments
- Program Window preference "Ignore Unrecognized PL/SQL" added
- Displaying a collection column or attribute from a cursor result set in a Test Window would lead to "Not logged on" error message

November 6, 2003 - Version 5.1.4 released

Bugfixes and enhancements

- Multi-Monitor support added
- Selecting an item with username and password from the list will now immediately connect
- Fixed several Access Violations
- Edit > Redo would redo all changes
- Command Window fixes:
 - Help command now uses html help (or supported commands for help ?)
 - When executing a command file from the clipboard, Echo would always be on
 - Timestamp values could not be queried
 - Executing commands in dual or single session mode while another window is running would cause hang-up
- Code Assistant fixes:
 - Did not use original case for local constants and program units
 - Would remove spaces and tabs until the next word on the same line when inserting text
 - Limited to 1000 items to prevent performance issues
- Crash recovery fixes:
 - Application title would not be correct
 - Maximized windows would not be restored correct
 - Suppressed redrawing of window list when saving recovery files
- File > New Instance no longer passes userid parameter
- Report Window would always have all edit menu options enabled, unrelated to selected tab page
- Program Window "Clear Errors" now also clears highlighted error line
- Editors would not see text drag & drop as a change
- Result grid in SQL Window would allow cut and paste, even if locked
- Fixed setup problem on multi-monitor systems

- Saving a file under another name within a project, did not enable "add to project" menu item
- Fixed report problem when sum per break would coincide with pagebreak
- Disabled Export items while exporting
- Test Window would not show output when package state is discarded
- Joined substitution variables (&var1&var2) would not be processed correctly in SQL Window, Report Window and Command Window
- Generating a Test Script for a method with a collection attribute would result in incorrect PL/SQL
- Library did not contain trailing / when exported, which would cause an error when the generated script is executed through SQL*Plus
- Selecting a SQL statement including the trailing semi-colon could cause ORA-00911 error
- Fixed "Beautifier caused an error" for alias[space].field expression
- Bookmarks and breakpoints would disappear when using the PL/SQL Beautifier
- Code Contents could fail for concatenated case expressions
- Fixed erroneous cursor down key behavior on last line in editors
- Fixed grid copy issue for specific international (Greek) fonts
- Fixed case sensitivity issue for custom keywords (international characters)
- Added some missing Paste items in popup menus
- Passwords that start with a numeric character are now automatically quoted
- Adding a variable to the watch list while the debugger is executing a step caused a crash
- Job interval field was inadvertently limited to 61 characters
- Program Window name tab was not always correct for packages and types
- Improved Copy/Paste in Grid in single record view
- Not all dialogs supported [Enter] and [Esc]
- When changing Reports or Documents, the main menu items could get reorganized
- Logon history list could have the "Remove" option from the popup disabled
- Record/Object assignments could cause incorrect "Unused value assignment" hint
- Excel export now declares strings to prevent interpretation by Excel

July 17, 2003 - Version 5.1.3 released

Bugfixes and enhancements

- Released version 1.1.0 of the [plsqldoc Plug-In](#)
- Edit button added to description in layout section of Report Window
- Bookmark Next/Previous menu added (with shortcut)
- Load and Save button added to Text Editors
- SQL Window Single Record View now allows sorting
- Query Builder did not update where clause after drag & drop a column name
- Fixed "cursor down at end of editor" issue
- Special Copy definition now has #define to control string character replacement
- Toolbar buttons for external tools did not get enabled/disabled
- Export Tables grid did not sort on dates correctly (incorrect date format)

- Substitution variables had to be declared in order of usage
- Secondary substitution variables did not inherit properties from the primary variable
- Switching to Single Record View with a function key in the SQL Window would not size the column widths correctly
- Code Contents fixes:
 - Could not handle variable declarations with case assignment
 - Could not handle language keyword in declarations
 - Could not handle nested case expressions
- PL/SQL Beautifier fixes:
 - Numbers that start with a decimal point (eg .13) would not be formatted correctly
 - Table.* would not always be formatted correctly
 - Secondary select statements from a Union, Minus or Intersect would be incorrectly indented
 - Could not handle language keyword in declarations
 - Keyword followed by string without a space would cause error (e.g. execute immediate'select * from dual')
- Command Window could not connect when userid command-line parameter was specified
- SQL Window would set focus to grid when switching tab pages
- Warning for Update or Delete all records now occurs only once
- In Multi-Session mode the AfterConnect.sql script would cause serialization of the first execute of SQL Windows, Test Windows, and Command Windows.
- Canceling a debug session with an infinite loop could cause hang-up
- Large collections (> 1000 elements) could not be viewed in debugger. They are now truncated to 1000 elements, and a warning is displayed.
- XML Export could not handle column names with invalid XML name characters (e.g. # and \$)
- Fixed cursor left en right 'lock' in single column grids
- Command Window now supports PlugIn command to call Plug-Ins
- Initial object query in Export User Objects and Export Tables could not be cancelled
- Table could not be described when using a join keyword in a select statement

April 29, 2003 - Version 5.1.2 released

Bugfixes and enhancements

- Released a new [plsqldoc Plug-In](#)
- Post changes button in SQL Window was not enabled when cell button was clicked to make a change
- Lookups for check constraints in SQL Window included quotes for character values
- Lookups for check constraints and foreign keys in SQL Window enabled in QBE mode
- F4 could not be used as a function key in the Object Browser
- DDL incorrect for views with check option without constraint
- Case insensitive search did not work with national characters
- Debugger did not display empty string variable values
- PL/SQL beautifier did not format collection element fields correctly (coll(index).field)
- Delete records option of Import Tables tool was not remembered
- Subsequent && pairs (escaped substitution variable prefix) would be

- replaced by one &
- && in substitution variable value would be replaced by &
- Printing HTML with Internet Explorer viewer now without header, footer and with correct orientation
- Fixed several Access Violation errors
- Plug-In interface updated and documented

March 13, 2003 - Version 5.1.1 released

Bugfixes and enhancements

- New SQL Window preference: Show Dictionary Info In Result Grid:
 - Column data type, optionality, and comment displayed
 - Lookup for check constraints (col in (value1, value2, ...))
 - Lookup for single column foreign key constraints to small tables with less than 1000 rows
- Added option to save backup files in a specific location
- Added Save & Load Object Selection to object grids (Export User Objects, Export Tables, Compare User Objects)
- AfterConnect.sql in PL/SQL Developer installation directory will be executed after connecting a session
- Hints & Warnings can now be cleared in Program Window
- Post Changes button in SQL Window is now disabled when there are no changes to post
- Export in Oracle Export format no longer deletes parameter file in TEMP directory
- Added PlugIn functions IDE_TabInfo() and IDE_TabIndex() to read and set Tab pages
- Connection Indicator Editor background did not work properly
- Excel interface did not handle formatting of numbers correctly
- PL/SQL Beautifier fixes:
 - Caused error for multi-line string parameter values
 - Did not format table list correctly in select statements
 - Uppercase did not work properly for special characters
 - Comments with unterminated strings would be incorrectly indented
 - Object Type attribute declarations were not aligned
 - Single line selection was not indented correctly
 - Did not work correctly on Windows 9x
 - Expressions in insert list items were not always formatted correctly
- Compiler Hint fixes:
 - Record/object assignments could lead to incorrect unused value hints
 - Nested if/then/else could lead to incorrect unused value hints
 - Duplicate variable names in a program unit would cause unused declaration hint
 - Variable names prefixed with program unit name would cause unused declaration hint
 - Incorrect unused value hints when using variables after an exception
- Fixed several Access Violation errors
- Fixed some memory leaks
- Descending function-based indexes would show up ascending
- Find dialog: paste/cut/clear did not work when invoked for a read-only editor

- Copy to Excel did not handle duplicate column names properly
- Editor Special Copy fix Visual Basic: vbNewLine replaces vbCR
- Long (Raw) columns could not be queried when varchar(2000) or longer was included
- Code Assistant "overload" buttons were not always positioned correctly
- Original command-line parameters are now passed to New Instance (File menu)
- Leading and trailing spaces in table/column comments would be removed in Table Definition Editor
- Query Builder would cause AV on "Find Database Object" Window
- Help button incorrectly appeared for non-Oracle error messages
- External Tools "Save Window" option was not stored

January 27, 2003 - Version 5.1.0 released

Enhancements

- PL/SQL Beautifier added
- Localization functionality added ([Japanese version](#) available, other languages will follow)
- Compiler Hints added for unused declarations, unused value assignments, comparison with NULL, function without return, and to_date without format
- Code Assistant can now use original case for inserted parameters, functions, and so on
- New Code Assistant preferences:
 - Describe standard functions (e.g. to_char)
 - Use original case if possible
- Backup and recovery options added for editor files
- Toolbar button options added for External Tools, Macros and Documents
- Copy to Excel added for SQL Window and Test Window result grid
- SQL Window preference "Date & Number fields to_char" split into 2 preferences
- Special Copy function to convert SQL to 3GL strings
- Command Window enhancements:
 - Support for WHENEVER SQLERROR | OSERROR added
 - Pause execution to single step through a script with command highlighting
 - SET EXECPAUSE ON | OFF added to control pause mode from script
- Report Window enhancements:
 - Export results to XML, CSV, TSV, or directly to Excel
 - System variables in report title (&dbuser, &database, ...)
 - Added Format option for number and date fields
 - Added LIBRARY parameter to select report style library file
 - SQL Text can be included in the HTML output
- Connection Indicator can now be applied to editor background or application background
- Export options for Statistics in SQL Window and Test Window
- Find Database Objects now also supports the Job object type
- Query button added to Table Definition Editor
- More robust Oracle Home selection
- Debugger preferences "Never/Always add debug info" now support connection matches (e.g. sys@*)
- Compare User Objects now ignores white space in PL/SQL source
- Support for Interval datatype added

- Timestamp and Interval datatypes supported in Export/Import table data
- Text Editor can now view text as formatted HTML
- Option in template to add brackets (using double brackets [[or]])
- Many other minor improvements and bugfixes

June 22, 2002 - Version 5.0.3 released

Bugfixes and enhancements

- Report Enhancements:
 - Page break added
 - New break option: Break + Header
 - Sum at break/report level added
 - Non breaking space option added
- Support for timestamp columns and attributes added
- Autorepeat buttons in SQL Window
- Key/Index column selector contained an empty entry for new keys/indexes
- Connection Match hint and right-click customization added
- SQL Window could give "list index out of bounds" in single record view
- Command Window did not always find files at preference location
- Added test for valid filename when creating new templates
- Printing Test Window with Page numbers would give two numbers
- Main Font preference now used in all dialogs
- Debugger could hang on startup (Initializing...)
- Table definition editor did not handle multi-line column comments correctly
- Code Assistant could popup after entering a command line in the command window
- Pressing backspace on the command line in the command window could erase prompt if Code Assistant was visible
- If a package or type specification was dropped, the body would remain visible in the Object Browser
- A quoted trigger owner in the trigger source would not correctly be recognized when opening it from the database
- Command Window did not handle comments in a string properly
- Ctrl-F4 from Text Editor closed parent Window
- Foreign Key References did not have table owner prefix in Object Browser

April 8, 2002 - Version 5.0.2 released

Bugfixes and enhancements

- Function-based index support added
- Test Window now supports Temporary CLOB's and BLOB's
- Average time column added to Profiler report
- New Appearance preference: Connection Indicators
- File > New Instance menu item added
- Job What PL/SQL Editor button added
- Job editor now accepts sysdate expressions for Next date field
- Command Window 'Edit' command now uses PL/SQL Editor
- When describing or Testing an invalid object, the object will now implicitly be validated

- && can now be used to escape substitution variables in SQL Window and Report Window
- If a trigger fails when posting a record in the SQL Window, the stack dump can now be viewed
- Register Filetypes Help button was missing
- Substitution variables are no longer processed for SQL Window with database source
- Fixed problem with column order when copying and printing some grids
- Profiler and Trace reports did not display trigger source lines
- Profiler report would incorrectly sort time columns if it includes a comma
- File > New > View menu item was missing
- Selections would not be visible when editor background is same as selection color
- External procedures and functions without a language were not displayed correctly in Code Contents
- Popup menu items in Plain Text Editor Window were not always appropriate
- Undo/Redo did not work in Plain Text Editor Window
- Create/Drop database link feedback in the Command Window was 'External database created/dropped'
- Improved handling of multi-line strings in Command Window
- Command Window pause command now supports a Cancel option
- Command Window set verify command did not always display variables
- Code Assistant did not work for aliases if select statement was in parenthesis
- Code Assistant is now disabled during Macro recording
- Sequence increment could not be negative
- Deferred constraints were read from dictionary as immediate
- Changing a the owner of a table did not propagate to the indexes
- View/Edit private database link did not retrieve password
- Editing a record in Single Record View in a SQL Window could lead to a partially updated database record
- If SQL tab page was not selected in SQL Window, "Cannot focus a disabled window" error would occur if an exception occurred during execution
- Cancel button in HTML Help Setup did not work
- Report Window Locking did not work properly
- Global private package variables were added to the Watch List with package prefix
- Compare User Objects: Target session logon now has history
- Templates: Positioning of cursor was not always correct
- Plug-In function IDE_CreatePopupItem did not work for Browser folder items (TABLES etc)
- Added Plug-In OnWindowCreate() and OnWindowClose()

January 5, 2002 - Version 5.0.1 released

Bugfixes and enhancements

- User's Guide provided as on-line help
- Popup menu with Copy and E-mail items added to Compilation Errors pane in Program Window and Compile Invalid Objects Window
- Fixed problem with assigning shortcut keys with Alt
- Fixed problem with substitution variable lists with a query bind variable that has more than one occurrence in the SQL Text
- Cut was not possible in Query By Example mode in SQL Window

- Functions involving table definitions could lead to 'not a valid integer' error
- Compare User Objects did not ignore index storage properties
- Printer initialization could fail during PL/SQL Developer startup
- Type owner and name could be changed when viewing an object table definition
- Right-click on an index in Explain Plan Window did not show index object popup
- Files associated with PL/SQL Developer did not always have an icon
- Command Window: define could not set empty values
- Plug-In interface: IDE_CreateWindow did not work correctly for all window types
- Object fetch performance improved of Export Tables, Export User Objects and Compare User Objects
- Filenames for Compare User Objects difference viewer now include username and database
- New Plug-In versions released: VCS 1.0.7 and PL/Formatter 1.0.3.

December 10, 2001 - Version 5.0.0 released

Bugfixes and enhancements

- Project concept added
- Reports added
- Export User Objects tool added
- Compare User Objects tool added
- Export popup menu item added for all grids (CSV, TSV, HTML & XML format)
- Export Plug-In functions added + RTF export demo Plug-In
- SQL Window improvements:
 - Single Record View added
 - Export Query function added (CSV, TSV, HTML & XML format)
 - Collection columns can be viewed
 - Support for substitution variables added
 - Support for Oracle9i XMLTYPE added
 - Linked Queries function added
- Test Window improvements
 - HTP Output will be displayed on HTP Output tab page
 - PL/SQL Trace support added for Oracle8i and later
 - 'Go to unit line' popup item added to Profiler Report grid
 - Can now be saved in SQL*Plus format
 - Test Script generation now determines named record types and PL/SQL Table types
- Command Window improvements
 - SHOW ERR*ORS [ObjectType ObjectName] command added
 - SQLPLUS command added
 - SET NUM*WIDTH added to set the maximum width of numeric columns (default 10)
 - Executes login.sql when started
- Code Assistant improvements
 - Context description added (object names & keywords)
 - Is now resizable
 - Does no longer pop up when typing comments or strings
 - Immediately completes name when started manually and only 1 option is available
 - Can be started manually for partly typed sub-object (e.g.

- dbms_output.put|)
- Table definition editor improvements
 - Support for index organized tables added
 - Columns can now be dropped from an existing table (Oracle8i and later)
- Object Browser improvements
 - Drop item added to table column popup menu (Oracle8i and later)
 - Profiles folder added
 - Job folder added + Run item added for job popup menu
 - Database links folder added
 - Now allows you to select multiple objects
 - Drag and drop object popup (Name, Description, Properties, DDL, Call, Select, Insert, Update, Delete)
- Editor improvements
 - Column editing added (Cut, Copy, Paste, Delete, and Edit > Selection functions)
 - Tab and Shift-tab now indent and unindent
 - Syntax case highlighting improved during typing
 - Recall Statement function added
 - Oracle9i SQL and PL/SQL keywords added for syntax highlighting
- Profile definition editor added
- Job definition editor added
- Database link definition editor added
- XML Syntax Highlighting and XML validation added to Text Editor for CLOB's and VARCHAR's
- Oracle9i plan table columns added for Explain Plan Window
- Drag & Drop from Browser and Templates to Workspace
- Insert Template popup menu item
- New preferences:
 - Logoff with open transaction (Commit, Rollback, Ask)
 - Show complete file path in window titles
 - Appearance tab page
 - Database lists to always or never add debug info
 - SQL Window: Date & Number fields to_char
- Improved handling of ConnectAs logon option
- From User and To User options added to Import Tables function
- LogonHistory enhancements
 - More.. option with sort option
 - Display size preference to limit the number of displayed items
 - Reduce number of items (on startup) if History size was reduced
 - Display checkbox for active connection
- Tables and Primary/Unique Keys with referencing foreign keys can now be dropped after confirmation
- Size of all non-PL/SQL object editors are saved
- Save Layout now also works with maximized windows
- Command-line parameters added: NOSPLASH, NOLOGON, NOPLUGINS

October 8, 2001 - Version 4.0.3 released

Bugfixes and enhancements

- Connect as sysdba/sysoper did not propagate to secondary sessions. Therefore you could not connect as SYS when init parameter O7_DICTIONARY_ACCESSIBILITY=FALSE. This is the default setting for Oracle9i.

- Oracle Import and export did not work correctly with imp73 and exp73 on Windows 9X
- Explain Plan did not work for externally identified users
- Fixed installer "can't create..." problem
- Force OCI7 on OCI8 preference did not hide "Connect As" option in Logon Dialog
- Command Window did not spool dbms_output results

July 16, 2001 - Version 4.0.2 released

Bugfixes and enhancements

- Generating a test script for program units with non-scalar parameters would not include a declare
- Picking a connection from a logon history without password and canceling would lead to an inconsistent situation
- Pressing the Parse button in Query Builder for an empty query would cause an Access Violation
- Removed Read Only option from Open File Dialog in Query Builder
- Fixed "Index out of Bounds" when deleting selected Browser Filter
- Enhanced Plug-In interface (IDE_Perform and OnMainMenu)
- Fixed "List index out of bounds (0)" during editing with Code Contents
- Browser Preference "Confirm Recompile" added
- Session Queries optimized: execution delayed until page is displayed
- Paste did not work in result grid of SQL Window in QBE Mode
- Reload in Program Window could lead to access violation
- In multi-session mode, NLS_DATE_FORMAT would be DD-MON-YY on some systems
- Escape possibility (\$\$) added for template variables (e.g. \$\$DATE => \$DATE)
- Adding a table from an other owner did not work correctly in Query Builder
- Result set in SQL Window was read only if multiple SQL statements were present in the editor
- Statements were not correctly separated in SQL Window if it ended with); e.g. in (1,2);
- Add debug information for package and type specification now implicitly adds it to body
- Default file extensions were not applied in import / export functions
- Fixed problem with Plug-In function IDE_GetBrowserItems()
- Command Window could hang during execution
- Program Window title was not always kept up-to-date
- Export function could give error message "File plsexp.log could not be opened"
- Memory usage optimized in Find Database Objects function
- Added Cursor Home & Cursor End buttons in Find Dialog
- Default templates are loaded from default directory when not found in user defined directory
- Fixed printing problem with wrong second pages on some printers
- Fixed problem with printing Explain Plan Window twice

March 15, 2001 - Version 4.0.0 released

New Features

- New Tools
 - Import Tables
 - Export Tables
 - External Tools
 - Event Monitor
 - Sessions
 - Query Builder
- New object definition editors for
 - User
 - Role
 - Library
 - Directory
- Plan Window Enhancements
 - All plan table columns can be selected
 - Optimizer goal can be changed
 - You can step through the operations in order of execution
 - Object popup added for 'Object name' column
 - Plan table cleared after execution
- Browser Enhancements
 - Users now have an Objects folder
 - Tablespace and Cluster folders added
 - Recent objects folder added
 - Preferences page added (Folders, Maximum recent objects, Double-click action, Show datatypes)
 - Function, procedure and method parameters can be displayed
 - Attributes and columns of object types can be recursively expanded
 - Methods can be described
 - Methods can be tested
 - Libraries folder added
 - Directories folder added
 - Filter button added
 - Filters can now be user-specific, with a default filter for each user
- SQL Window enhancements:
 - Query By Example mode
 - Configurable shortcut keys for buttons
 - Result set supports object types
 - Result set supports nested cursors
 - Check for lock before updating or deleting a record
 - Window title generated from SQL text instead of 'New'
 - Selected statement will be executed
- Test Window enhancements
 - PL/SQL Profiler added for Oracle8i and later
- Debugger enhancements
 - Collection element items can be displayed e.g.:
Employees(index).Name
 - Collections of scalar datatype can be viewed
- Command Window enhancements
 - SET COLWIDTH added
 - SET SCAN added
 - Object commands added (RECOMPILE, VIEW, EDIT, PROPERTIES, QUERYDATA, EDITDATA, EXPORTDATA, TEST, and BROWSE)
- Program Window enhancements
 - Java source support added

- PLS-00323 and PLS-00538 handled smarter
- Code Contents enhancements
 - Code Contents selection now keeps track of cursor position
 - Select item added to contents popup menu for functions and procedures
- Object definition editor enhancements
 - Now shows creation SQL if no modifications were made
 - SQL can be opened in Command Window
- Table definition editor enhancements
 - Object table support added
 - Temporary table support added
 - Column types left aligned in create table SQL
 - Object popup added for foreign key referencing table
- Code Assistant enhancements
 - Support for object type constructors
 - Support for object type variables
 - Support for object type columns
 - Support for standard collection methods (first, limit, ...)
 - Support for collection element object types
 - Support for %rowtype variables
- Editor enhancements
 - Uppercase/Lowercase/InitCaps keyword syntax highlighting
 - Apply syntax case to editor selection
- Plug-In enhanced (see Plug-In documentation for details)
- HTML Help enhancements
 - "Stay On Top" preference added
 - Search-delay implemented
 - Find function added to Internal HTML Viewer
- Find Database Objects now supports all object types
- Oracle Home preference added
- Check added on first startup for multiple oracle homes, and automatically select a valid home
- Holding down the Control key during Logon prevents that the connection is saved in the logon history
- Configurable Toolbar buttons
- New disabled Button style (only 32k color or better)
- New Info button on About screen
- New and improved installation procedure

October 14, 2000 - Version 3.0.5 released

Bugfixes

- Fixed "get_scalar: exception 10" and "backend error 1003" error messages in trace file during debugging
- Main window could become invisible as result of "Autosave Desktop" preference
- Internal HTML Viewer still required Internet Explorer ("Class not registered")
- HTML Help did not use context when activated for the first time
- Hyperlink Navigation caused Access Violation when Code Contents was not used
- Fixed occasional "Control has no parent window" error messages

August 28, 2000 - Version 3.0.4 released

Bugfixes and enhancements

- Added Oracle8i keywords for syntax highlighting
- HTML Help is now compatible with IE 5.5
- View/Edit for a view created by other user did not include column alias
- Fixed Code Assistant related hang-up in Program Window
- Fixed "List index" error when reloading a changed Program File with more than 2 programs
- Fixed "Control has no parent window" error in Table Definition Editor
- Fixed delayed effect of font color preference in Template List
- Improved 'default extension' behavior when saving files
- Fixed AV's after an object has dropped with reference folders opened
- Improved printing of (Auto column size) grids
- Improved copy from grid when first cells are empty

June 26, 2000 - Version 3.0.3 released

New features

- Added an internal HTML Viewer for users without Internet Explorer
- Added a 'Use internal HTML viewer' preference
- Debugger can now set and view private global variables (declared in package body)
- Plug-In interface IDE_SetFilename added to change filename
- Plug-In interface IDE_Splash added to hide Splash screen

Bugfixes

- Toolbar buttons were not up to date after creating a new view
- Command Window could sometimes lock up when using commas in some commands
- Plug-In function IDE_RefreshMenus did not keep ShortCut keys active
- Fixed problems when connected as externally identified user (e.g. explain plan)
- Select statements could sometimes lock up Command Window on Windows 2000
- Fetching next page in SQL Window with modified results could result in 'ghost records'
- Large Cost & Cardinality values could lead overflow error in Plan Window
- If a table and trigger had the same name, a describe would result in ORA-01422
- Corrected 'Type' and 'Type body' templates (no name after end)
- ErrorList in Program Window did not always show scrollbar
- Test Window debug button would get enabled in Single Session Mode after an error
- Test Window watches and callstack buttons were always enabled
- Code Assistant would not work for parameters after 10 lines
- Column defaults would sometimes be displayed with garbage characters

March 21, 2000 - Version 3.0.2 released

New features

- Added a background color preference for Editor, Browser and Grids
- Added Date/Time dropdown in Test Window for date variables
- Delete word function made available as hotkey
- Added Confirm Commit & Rollback preference
- Added Commit on Post preference for committing posted records in SQL Window
- Holding down Ctrl while pressing the Post button will now implicitly Commit

Bugfixes

- Uppercase/lowercase or comment/uncomment affected readonly editors
- Long & Cursor variables didn't get value cell in 'Test' function
- Precision and Scale were swapped in type attribute description
- Float columns were displayed with precision
- Alt-hotkeys in popup menus would cause a 'beep'
- Quoted variable values in Command Window would include the quotes
- Tablename not recognized when right-clicking on "delete <tablename> where" statement
- Empty programs would lead to error message when compiling a Program Window
- View function for Tables, Sequences and Synonyms would always create a new window
- SQL error locations are now correctly displayed on Net8 8.0.5. (On 8.0.3 and 8.0.4 error locations are not reported)
- LOB variables could not be used in Test Window in Multi Session Mode
- VCS Plug-In did not work correctly with ComponentSoftware RCS

February 7, 2000 - Version 3.0.1 released

New features

- Breakpoint conditions and messages
- Drag & Drop capabilities from Description/Properties Window to Editor
- Popup menu in editor margin with Bookmark and Breakpoint function
- Comment and Uncomment functions in Edit > Selection menu
- Comment text feature for templates
- Added (more...) to status line when more records are available in a SQL Window
- Next & Last Page items in Grid popup menu in a SQL Window
- Move, Insert & Delete variables in a Test Window
- Store Window List Short Text preference during Save Layout
- Align Grid item in Editor popup menu in a SQL Window
- Several Plug-In interface enhancement for the new [Version Control Plug-In](#)

Bugfixes

- Grid printing would fail after first page on some printers
- Set Breakpoint menu item would set Bookmark instead
- Access violation with popup menu on empty editable result grid
- Userid parameter did not work
- Selection would grow when case-changing selection with multiple lines
- Fixed some template issues
- Trailing '/' would sometimes unnecessarily be removed from a template

- Query results in a descriptive list in a template did not work properly
- Template could not handle * for default values in checkboxes
- Feedback limit would affect Insert, Update & Delete in a Command Window
- Default extension for @ command did not work properly in a Command Window
- Fixed some copy & paste issues in grids
- Next Page & Last Page in SQL Window did not work in single session mode
- Table editor could not handle indexes with the same name as a foreign key
- Optimized save function to store CSV file in SQL and Test Window
- Text in grids would ignore character set of selected grid font
- Width for numeric column formats in Command Window was not correct
- Test Window could not be closed if session was killed

December 22, 1999 - Version 3.0 released

New features

- Code Navigation through Code Contents, Hyperlink Navigation and Browse back / forward buttons.
- New hierarchical Template Window with more powerful template format, the ability to insert template code into existing source code, and more.
- Create, drop, view, edit, and rename any object from within PL/SQL Developer, including tables, constraints, indexes, privileges, sequences and synonyms.
- A new Window List to easily navigate between multiple document windows.
- Command Window now has a built-in script editor with appropriate syntax highlighting, supports bind and substitution variables, and supports many new commands. Error locations are highlighted.
- Test Window now supports Long, Long Raw, BLOB, CLOB, BFile and cursor variables, and also supports Long, Long Raw, BLOB, CLOB and BFile fields in the result grid.
- SQL Window can now incrementally fetch results. Rows in the result grid can be locally sorted. Numbers are automatically formatted.
- Object Browser can now recursively expand objects. Triggers and constraints can be enabled and disabled. Drag and drop object names into editors.
- Code Assistant can now recognize table aliases for select, update and delete statements, can describe users and synonyms, and can be activated manually.
- Context sensitive object popups: only items appropriate for an object will be displayed (e.g. "Query data" for a table or view).
- Logon history with or without password can be maintained for easy logon.
- Editor syntax highlighting improved, new "Find matching pair" function, bookmark improvements, mouse wheel navigation improved.
- And much, much, more...

August 1999 - Version 2.1.3 released

Bugfixes and enhancements

- Separate print buttons in the toolbar for portrait and landscape
- Black/White printing preference added
- Fixed problem with missing line between printed pages
- You can now also print the output page of a SQL Window or Test Window
- Added print option to description & properties window
- The result grid in the SQL Window now resizes when the window is resized
- The SQL Window now also stores statements in the history buffer that are not yet executed
- Cut, Copy & Paste keys did not work in the Text Editor for Long columns in the SQL Window
- Fixed problems with comments and empty lines between 'create or replace' and the object type and name in the Program Editor
- Role granted to users displayed role granted roles in the Object Browser
- Commands in the Command Window were not recognized if followed by a tab character
- Command Window did not update the break, commit and rollback button after executing a pasted command
- Debug functions are now disabled in single session mode
- Main Window could sometimes disappear on Windows NT with 'Autosave Desktop' preference
- The 'Wrap lines' preference has been disabled, which caused problems with debugging and compilation errors
- Integration with our [Direct Oracle Access](#) components for Delphi and C++Builder
- Added results to TestWindow for Direct Oracle Access integration
- Oracle_Home would not be detected if the Home directory is not in the PATH
- SQL*Net in incomplete Multiple Oracle Home could not be initialized
- Some Plug-In enhancements

May 1999 - Version 2.1.2 released

Bugfixes and enhancements

- Oracle8i related enhancements
 - Support added for Net8 8.1
 - Support added for Multiple Oracle Homes and the Oracle Home Selector
 - The parse error position, which is missing in Net8 8.0, is now supported for Net8 8.1
- Debugger related enhancements
 - You can now view and set public global package variables on 8.0.5 and later
 - The call stack now displays the program unit name for each frame on 7.3.4.3 or 8.0.5 and later
 - Double-clicking on a call stack frame now navigates to the source line on 7.3.4.3 or 8.0.5 and later
 - Cursor status (rowcount, open, found, notfound, ...) displayed in variable value pop-up
- Other enhancements
 - Selecting 'Test' in the Object Browser for overloaded program units now allows you to select a specific overloading
 - The 'Edit' menu option in the Object Browser is now enabled for

- updateable views
- In the Object Browser you can now view the triggers defined on a view
- Bugfixes
 - The icons in the Object Browser were invisible on systems with an older version of comctl32.dll
 - Newly recorded macros could only be assigned to a hotkey after restarting PL/SQL Developer
 - When the package state was discarded during a debug session, the debugger would sometimes crash
 - The debugger variable value pop-ups would sometimes "stick" on the screen

March 1999 - Version 2.1.1 released

Bugfixes

- Occasionally a Program Window would become extremely long after opening a file
- Access Violation when closing a maximized Test Window
- Ctrl- or Alt-key combinations could not be assigned to a macro
- Scan button in Test Window would find variables in quoted strings
- A new Code Assistant Style preference is provided, which controls how the Code Assistant inserts identifiers into the source code: Init Caps, Lowercase, Uppercase or Smart (default).

February 1999 - Version 2.1 released

New features

- Integration with Oracle HTML manuals
- User-defined shortcut keys for all functions
- Users, Roles, Synonyms and Object privileges added to Browser
- Refresh button in Browser now only refreshes the selected object
- Save Desktop preference added
- Explain plan is now displayed as a tree with descriptions in the status line
- New Directories preference added
- New editor preference: allow cursor after EOL
- Print selection added
- File association dialog for confirmation & manual selection
- Plug-In interface implemented (Documentation available on request)
- Several 2.0 bugfixes and improvements

November 1998 - Version 2.0 released

New features

- Multi threading / Multi session environment
- Oracle8 feature support (Types, CLOB's, BLOB's, BFILE's)
- Integrated Debugger
- Template Library
- Browser Filters
- Command Window

- Compile Invalid Objects function
- Find Database Objects function
- Code Assistant
- Macro Library
- Many Editor improvements
- Many Browser improvements
- Many new preferences
- And much, much, more...