

Toad[®] for Oracle 14.0

Release Notes

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About Toad for Oracle

Toad for Oracle provides an intuitive and efficient way for database professionals of all skill and experience levels to perform their jobs with an overall improvement in workflow effectiveness and productivity. With Toad for Oracle you can:

- Understand your database environment through visual representations
- Meet deadlines easily through automation and smooth workflows
- Perform essential development and administration tasks from a single tool
- Deploy high-quality applications that meet user requirements; perform predictably and reliably in production
- Validate database code to ensure the best-possible performance and adherence to best-practice standards
- Manage and share projects, templates, scripts, and more with ease

The Toad for Oracle solutions are built for you, by you. Nearly two decades of development and feedback from various communities like Toad World have made it the most powerful and functional tool available. With an installed-base of over two million, Toad for Oracle continues to be the “de facto” standard tool for database development and administration.

Toad for Oracle resources

Toad World is a unique and valuable resource available to all Toad users. Toad World provides forums, blogs, videos, product information, Beta releases (when available), and Trial downloads for Toad products. Visit Toad World at: <https://www.toadworld.com>.

Two of the most-often used features of Toad World are the Forums and the Idea Pond.

- On the Idea Pond page, you can submit your ideas to improve Toad and vote for or comment on other ideas. The Toad team takes your suggestions seriously, and you may even hear back from one of our developers on the topic. We encourage all Toad users—from new to experienced—to let us know how we can improve Toad.
- On the Forum page, you can ask a question or start a discussion and view all other forums within the Toad community.

The Toad World blog pages feature a broad range of information, including topics of interest to our industry, as well as instructions from team members on how to use the latest Toad features.

The Toad for Oracle [web-based training](#) is a perfect accompaniment to your product license. This free training walks you through major product features and explains how to perform frequent tasks. You’ll also see how to utilize time-saving automation functionality. You’ll receive a certificate of completion for each course once you pass the accompanying test.

About this release

Toad for Oracle 14.0 includes component and requirement upgrades. These upgrades address security vulnerabilities previously identified in the third party component.

About Toad[®] for Oracle[®] Editions

Each Toad for Oracle Edition is packaged with additional Quest products to expand your experience. The following products may be part of your Toad for Oracle Edition:

- [Toad for Oracle 14.0](#)
- [Benchmark Factory for Databases](#)
- [Code Tester for Oracle](#)
- [Spotlight on Oracle](#)
- [SQL Optimizer for Oracle](#)
- [Toad Data Modeler](#)

The following Toad for Oracle Editions are available:

Edition	Licensed
Toad for Oracle Base Edition	Toad [®] for Oracle [®]
Toad for Oracle Professional Edition	Toad [®] for Oracle [®] Professional
Toad for Oracle Xpert Edition	Toad [®] for Oracle [®] Xpert — Includes all features in Base and Professional Editions SQL Optimizer for Oracle [®]
Toad for Oracle Developer Edition	Toad [®] for Oracle [®] Xpert Code Tester for Oracle [®] Benchmark Factory [®] for Databases - Oracle Edition
Toad for Oracle DBA Edition	Toad [®] for Oracle [®] Xpert DB Admin Module Add-on Spotlight on Oracle [®] — Includes Spotlight on Unix/Linux, Spotlight on Windows, and Spotlight on Oracle Data Guard Benchmark Factory [®] for Databases - Oracle Edition Toad [®] Data Modeler
Toad for Oracle DBA RAC Edition	Toad [®] for Oracle [®] Xpert DB Admin Module Add-on Spotlight on Oracle [®] with RAC Option — Includes Spotlight on Unix/Linux, Spotlight on Windows, and Spotlight on Oracle Data Guard Benchmark Factory [®] for Databases - Oracle Edition Toad [®] Data Modeler
Toad for Oracle DBA Exadata Edition	Toad [®] for Oracle [®] Xpert

Edition	Licensed
	DB Admin Module Add-on Spotlight on Oracle® with RAC and Exadata Options — Includes Spotlight on Unix/Linux, Spotlight on Windows, and Spotlight on Oracle® Data Guard Benchmark Factory® for Databases - Oracle Edition Toad® Data Modeler

NOTE: The DB Admin Module can be added to any Toad Edition.

For more information about the products in your Toad for Oracle Edition and the minimum system requirements for running these products, see the Toad for Oracle Editions release notes at: <https://support.quest.com/technical-documents>

New Features and Enhancements

Toad for Oracle 14.0

Subscription Licensing

Note: Applies to Toad for Oracle Subscription with online licensing.

Toad for Oracle Subscription maps licenses to your Quest.com account which are managed via a new, self-service licensing portal. Sign in with your Quest.com account to begin using Toad immediately. New users are automatically issued a 30-day trial during which you are free to explore all of Toad's features. [Learn more.](#)

Note: Running multiple copies of Toad is supported, but only the first copy will make persistent changes to configuration files. Additional running instances operate in a "virtual" mode where configuration settings are loaded from your last used options, but changes made do not persist when Toad is closed. This is equivalent to the `/VIRTUAL` command line switch.

Stability and Security Improvements

Much emphasis was placed on improving application stability and security. Well over 100 defects identified by customers, internal testing, and by data collected from the Toad Improvement Program were resolved.

The Toad Improvement Program collects anonymous usage data to help the Toad for Oracle team identify usage patterns and prioritize new development including, but not limited to, organizing the UI to make the features you rely on more accessible. The Toad Improvement Program also collects data on unhandled exceptions so that we can identify and resolve defects. We'd like to thank all who participate in Toad's ongoing success by enabling Toad Improvement Program data collection. To enable Toad Improvement Program data collection, select "Yes" to the participation opt-in in Options (**View | Options | Online**).

Toolbars and Menus

Database | Create menu

Using data collected from the Toad Improvement Program, the **Database | Create** menu has been reorganized to group related items and make the commonly used items readily accessible.

Installer

Quest Update Service

Note: This pertains to Toad for Oracle Subscription, only.

Toad for Oracle Subscription edition is bundled with an update service to periodically check for and deliver product updates. Upon successful installation, the Quest Update Service is configured to run automatically using the LocalService account. Product updates are automatically downloaded and a notification window displays alerting you to the pending updates. You can install or dismiss updates from the notification window.

Note: The Quest Update Service does not provide updates for all products produced by Quest.

Additional Object Type Support

Support for Analytic Views, Attribute Dimensions, In-Memory Join Groups, and Hierarchies has been added to the following areas...

- Schema Browser
- Export DDL
- Compare Schemas
- Single Object Compare
- Object Search
- Create/Alter windows

Editor

SQL Error Dialog

An option has been added to suppress the error dialog shown when running SQL or compiling PL/SQL raises an ORA exception. Errors are still displayed in the Editor's error panel. See the "Display SQL errors in popup dialog" option (**View | Options | Editor | Behavior**).

Schema Browser

Treeview Display Mode

An option has been added to automatically expand the node for the logon schema when the Schema Browser is opened.

Column Comments

An option has been added allowing for column comments to display as mouse-over tooltips on the Data Grid tab.

Team Coding

General

Azure DevOps Server 2019 is supported.

VCS Login

The VCS login dialog now selects the repository used for the database, by default.

Team Coding Manager

Optimizations resulting in improved load times, especially on large database.

Sensitive Data Protection

Additional rules are included to detect German, French, and Italian sensitive data patterns.

Database Monitor

Anomalies in data used to populate charts can cause auto-scaling such that the remainder of the data is indecipherable. To combat this, a new option has been added allowing for user-defined min/max chart values and how to handle data outside of this range. Data falling outside of the display range can be skipped, replaced with the previous data point's value, or the max/min display value can be used. See the **Alerts and Display** tab in the Database Monitor Options window.

Single Object Compare

Improved performance in displaying this window.

Database Browser

Pluggable Databases on Oracle RAC

When connected to a container database (CDB) on Oracle RAC you can now specify the pluggable database (PDB) instances to open or close.

Generate Schema Script

Constraints

Constraints are now listed individually in the run report and a new option has been added allowing for constraints to be exported to their own .sql file.

Session Browser

Container Databases

Ability to group and filter by "Container ID" has been added for easily identifying which pluggable database each session pertains to.

Export DDL

Users

Added support for extracting encrypted passwords for the "identified by values" clause using DBMS_METADATA. DBMS_METADATA is accessible to all users having the SELECT ANY ROLE system privilege.

Toad for Oracle 13.3

Table Data

Copy Table Data

When copying table data to another table you can select a subset of source table columns from which to copy. Only data in the selected columns will be copied to the destination table. Copy Table Data is accessible from the Schema Browser Tables view right-click menu (**Data | Copy to another schema**).

Note: Copy Table Data is also accessible from the Automation Designer (**Utilities | Automation Designer**).

Import Table Data

Improved detection of field breaks when importing table data from fixed width text files (**Database | Import | Import Table Data**).

Note: Import Table Data is also accessible from the Automation Designer (**Utilities | Automation Designer**).

Automation Designer

Export Dataset Action

If the dataset is a SQL file containing multiple SELECT statements, Toad will generate one file per statement. If the destination is Excel File then Toad will generate a new sheet per statement.

Similarly, if the dataset is SQL text then multiple SELECT statements results in multiple files.

File / List Iterator Actions

Support for multiple variable values per line, separated by a delimiter of your choosing. Values are referenced within child actions using the fully qualified variable name which is the action name and the 1-based value index, e.g. %MyFileIterator.1%.

Schema Browser

Tables View, Partitioning Tab

Row Select option added to right-click menu. Row Select is enabled, by default.

Generate Schema Script

Generate Schema Script (**Database | Export | Generate Schema Script**) has added support for ANALYTIC VIEW, ATTRIBUTE DIMENSION, HIERARCHY, and INMEMORY JOIN GROUP object types.

Toad[®] Script Runner

The SYSASM, SYSKM, SYSDG, and SYSBACKUP administrative privileges are now supported.

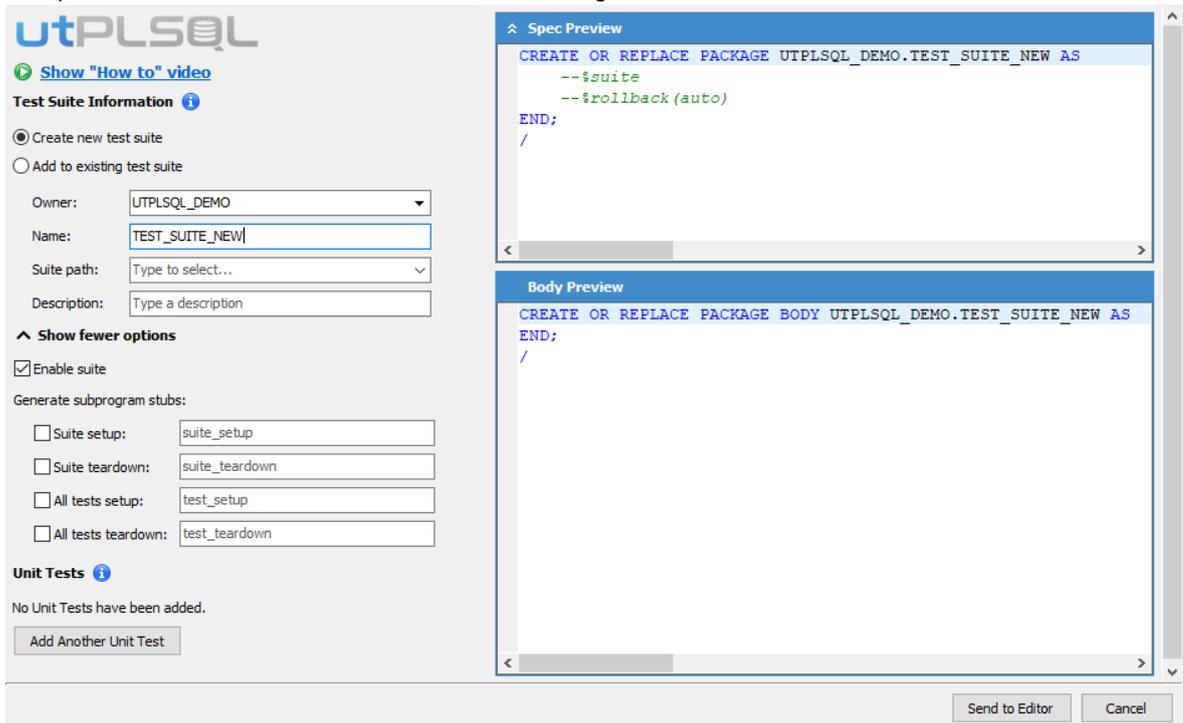
Toad for Oracle 13.2

Unit Testing

This release of Toad for Oracle includes a new feature that allows you to easily create unit tests to test your PL/SQL code. Testing PL/SQL objects, such as packages and procedures, is an integral part of the agile development process and helps ensure that your code functions as designed.

Toad's unit testing feature is built on the utPLSQL open source framework.

- A new window guides you through the process of defining a test suite containing one or more unit tests. This process creates suite and test stub code which is generated and sent to the Editor.



- In Editor, you can modify the code, add input values, edit setup and teardown subprograms, and finalize your unit tests.
- A Unit Test Manager allows you to view, access, and run existing unit tests. Test suites and unit tests are displayed in a tree view. From the Unit Test Manager, you can send tests to the Editor.
- Test and suite configuration information is stored within the tests and test suites in the form of annotations. The utPLSQL framework uses these annotations to identify and run tests.
- You can run unit tests from the Editor or from the Unit Test Manager.
- You can select one or more reports to be generated during the run. Reports fall into one of two categories:
 - **Run Results** — Reports on test pass/fail status.
 - **Code Coverage** — Reports on the percentage of tested object code covered (i.e. executed) by your tests.

Note: Reports are available in many formats suitable for consumption by modern CI/CD and code quality systems.

Connections

Connection Toolbar Buttons

Toad now allows you to rearrange connection bar buttons by drag and drop. Right-click on Toad's toolbar and choose Customize. When the customization dialog is shown you can drag and drop any menu item or toolbutton

to reposition it, including the buttons for each active connection.

Database Login Window

In the Database Login window, if you display connections in tabs (e.g., Tabbed by User), you can now filter the tabs. This is useful if you have a large number of connections.

- To filter the tabs displayed, right-click a tab and select **Filter Tabs**. Then enter a text string in the search box. The filter persists while the Database Login window is open.

Export Encrypted Connection Passwords

Toad now allows you to include connection passwords when exporting Toad connections. Encryption is applied to protect the passwords. A master password is used to decrypt when importing the connections from the export file.

Filter Connection Tabs

You now can easily filter tabs to display less connections in **New Connection**. Right-click any connection tab and select Filter Tabs.

Database and Data Management

ASM Flex Disk Groups

The **Create Disk Group** window now supports Oracle ASM flex disk groups. **Create Disk Group** is available from the **ASM Manager (Database | Administer | ASM Manager)**.

Note: Flex disk groups are available in Oracle Database 12c Release 2 and newer.

Compare Databases

When comparing single objects (**Database | Compare | Single Objects**), you now have the option to compare the triggers on the table. To compare triggers, select the Options tab and then select the **Include Triggers** check box.

When comparing data (**Database | Compare | Data**), Toad now supports BLOB, CLOB, NCLOB, and XMLTYPE data types. You must have the EXECUTE privilege on the DBMS_CRYPTO package.

Note: The BLOB data type is not supported for synchronization using a sync script. You must use the Compare Data window.

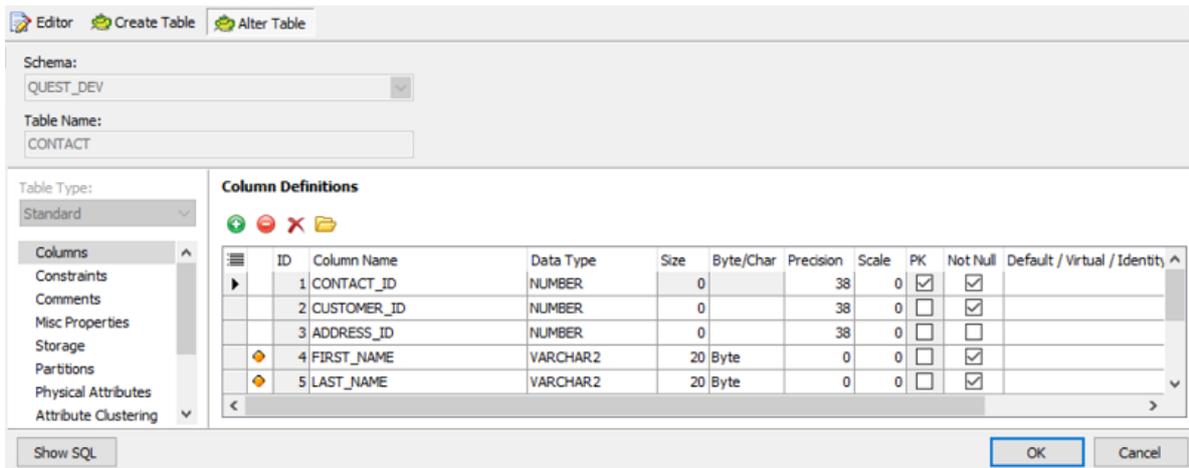
Compare Schemas

Improved handling of mismatched table columns. When a table in the target schema differs from a table in the source schema by name alone, i.e. datatype, scale, precision, and column position are the same, the sync script will default to rename the column. You can override the rename and opt to drop/create the column, instead, when viewing the **Difference Details**.

Create Object Window Enhancements

This release includes an enhanced Create (Alter) Object window. New layout and appearance make this window easier to use while functionality remains unchanged. Review the following details:

- Each window includes a toolbar for frequently-used actions. Where applicable, buttons are now intuitive icons for easy identification.
- The tabs have been replaced by a streamlined panel on the left side where applicable categories are listed. Select a category on the left-hand side to display options on the right-hand side.
- Windows that were modal, such as the Create User window, are now modeless.
- The format follows enhancements made to other windows in Toad, such as Compare Schemas.



DBMS Auto Index

Support for Oracle's DBMS_AUTO_INDEX package has been added. This feature allows Oracle to automatically create indexes as needed to achieve optimal performance by analyzing user queries.

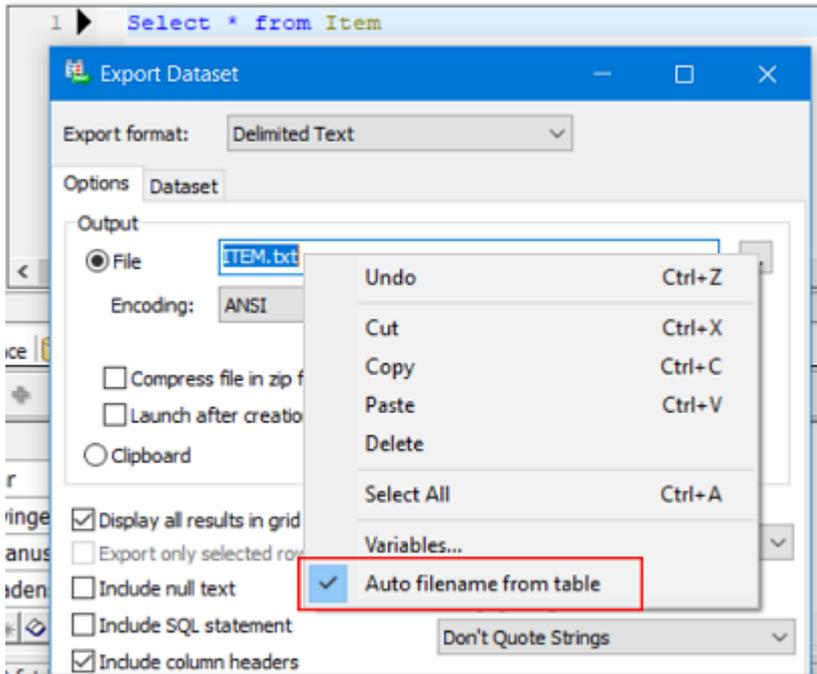
Note: DBMS_AUTO_INDEX is available on Oracle Database 19c, Enterprise Edition on Engineered Systems and Exadata Cloud Service, only.

Export Dataset

Use Table Name as Filename

When you export data from a data grid, the Export Dataset dialog allows you to enter a name for the export file. You can now specify whether or not to automatically create a file name based on the name of a table in the query.

- To enable this option, right-click within the **File** field and select **Auto filename from table**.



- When this option is disabled, the last export file name is used. The option is disabled by default.

Export to XML as Non-Encoded Data

Now when exporting data to XML, if you select an encoding method other than ANSI, certain data is not encoded. Specifically, all the characters listed in “Non-restricted characters” in [Valid characters in XML](#) will be exported as clear text instead of using the “&#nnn;” encoding format.

Export DDL

Include Sequences Used by Triggers

When exporting DDL for a table, if you select to include triggers, you now have the option to include the sequences used by the triggers.

- In the Export DDL dialog (**Database | Export | Export DDL**), select the Script Options tab and then the Tables tab. After selecting **Triggers** on the Tables tab, select **Sequences used by triggers**.

Hybrid Partitioned Tables

Toad supports hybrid partitioned tables in the following areas:

- Script Generation
- Create/Alter Table windows
- Compare Schemas

Note: Hybrid partitioned tables are a new feature of Oracle Database 19c.

Schema Browser

View Objects without Segments

When viewing Tablespaces in the Schema Browser, the Objects tab now includes a new option to view objects that do not have segments. Because Oracle does not always create a segment for a new object until a row is added, these objects do not display in the Segments list. This new option allows you to display a list of objects without segments.

- In the Schema Browser, when viewing Tablespaces, select the **Objects** tab and then select **Objects without Segments** from the drop-down list.

Resetting Sequence Value

When altering a sequence (right-click, Alter) you can reset the sequence back to its start value by checking **Reset** and clicking OK.

Copy Table Data

XMLTYPE is now supported when copying data from one table to another. Copy Table Data is accessible from the Schema Browser's right-click menu, **Data | Copy to another schema**, and as an action in the **Automation Designer**.

Sensitive Data Awareness and Protection

Expanded Sensitive Data Detection

New rules have been added to extend sensitive data detection to common European Union personal data formats.

Copy Default Policies to Other Rules

You can configure default policies once and apply them to other rules of the same Category or Severity.

Identify Sensitive Data in Grids

When **Sensitive Data Awareness** is enabled, Toad identifies sensitive data columns in grids used to display table/view data and query results.

Samples of Matched Values

When viewing rules (**View | Toad Options | Sensitive Data | Search Rules**) all built-in rules (RuleID < 4000) display a list of sample values the rule will match.

Automation Designer

Analyze Objects Action

Updated GUI is easier to use and still fully featured.

General

Workspace Enhancements

Display the **Workspaces** toolbar to view the following enhancements:

- You can now rename the current saved workspace.
- Workspaces are now sorted alphabetically, by default. You can toggle this feature on or off in **Options | Toolbars/Menus | Toolbars**.

Migrate Tasks in the Task Scheduler

You can now easily migrate tasks scheduled to run using a previous version of Toad.

1. Select **Utilities | Task Scheduler** to open the Task Scheduler.
2. Tasks that are specified to run using a previous version of Toad are marked in red text. To migrate these tasks to run using your current version of Toad, right-click the task and select **Migrate Tasks**.

Schema Chooser Enhancement

Right-click on Toad's schema chooser control to view the following enhancement:

1. From the **Users to Load** sub-menu you can opt to **Hide Oracle-maintained** schemas on Oracle Database 12c and newer. Oracle-maintained schemas are internally managed by the database and identified by having a value of 'Y' for the ORACLE_MAINTAINED column in ALL_USERS.

You can find the most up-to-date list of new features for this release in the *Toad for Oracle Release Notes* found at: <https://support.quest.com/toad-for-oracle/technical-documents>.

Enhancements from Idea Pond

The following is a list of enhancements submitted by Toad for Oracle users through Idea Pond and implemented in this release.

The Toad for Oracle Idea Pond on Toad World is a site where you can submit your ideas to improve Toad and vote or comment on ideas submitted by other users. The Toad development team has always been driven by Toad customers, and Idea Pond makes it easy for you to tell us what changes are most important.

- To visit Idea Pond, **log in** to the Toad Forums at: <https://forums.toadworld.com>. Select the **Categories** tab. Then click **Idea Pond** in the **Toad for Oracle** category.

Enhancement	Issue ID	Link to Idea Pond
Delete button added to Login window.	TMB-1666	link

Discontinued Features

Knowledge Xpert. Knowledge Xpert is no longer available on Toad World. Beginning with release 13.1, Toad components no longer reference the online Knowledge Xpert.

Ask a Question. The **Go to Toad World** and **Ask a Question** commands on the Toad World toolbar have been replaced. To ask a question, click the **Forums** toolbar button to go directly to the forum. To go to Toad World, click the **Forums** or the **Browse Blogs** toolbar buttons. You can also use the Help menu: **Help | Toad World | Forums**. This change is found in Toad for Oracle 13.1 or later.

Integration with Toad Intelligence Central. Beginning with Toad for Oracle 13.1, Toad no longer provides integration with Toad Intelligence Central. The Toad Intelligence Central window is not available and you cannot publish scripts, files, Code Analysis results, and other resources to a Toad Intelligence Central server using Toad for Oracle. You cannot connect to Toad Intelligence Central through Toad for Oracle.

Resolved issues

The following is a list of issues addressed and enhancements implemented in this release of Toad for Oracle.

Toad for Oracle 14.0

The following list of resolved issues includes issues received from the Toad for Oracle forum and Toad Beta users.

Issue ID	Link to Forum Post	Resolved Issue
TMB-1562		Export Dataset to Excel file results in spreadsheet corruption with certain data.
TMB-2229		Viewing a package in the Schema Browser hangs Toad if the code contains mixed usage of space and tab characters for indentation.
TMB-2284		Exporting table DDL will raise an ORA-00904 exception if the "Audit statements" option is included and the database's COMPATIBLE initialization parameter is set to a version less than the database version.
TMB-2355	link	Database Monitor graphs display large negative spikes when values in V\$SYSSTAT reach their maximum and roll back to 0.
TMB-2511	link	Code Insight can be positioned or scaled incorrectly in a multiple monitor setup where the monitors have differing pixels per inch.
TMB-2545	link	The Set Variable action in the Automation Designer does not allow for assignment to the value of another variable.
TMB-2584	link	Editor, Auto Replace does not make replacement upon Tab key press when the tab mode is set to spaces.
TMB-2587		Analyze Objects, Global Preferences do not update when the connection is changed.
TMB-2594		Closing a session does not remove the associated Connection Bar button in some cases.
TMB-2600		Code Analysis, SQL Scan does not display results.
TMB-2621	link	Creating a MATERIALIZED VIEW from the Schema Browser does not add the view to Team Coding for controlled schemas.
TMB-2654		Importing a Code Analysis rule set containing custom rules omits the custom rules if they are new to that installation of Toad.
TMB-2658	link	Reordering Connection Bar buttons does not always save the layout.

Issue ID	Link to Forum Post	Resolved Issue
TMB-2662	link	The Unit Test Manager throws an Access Violation exception when a package decorated with utPLSQL annotations is compiled in the Editor.
TMB-2687		Search as you type is non-functional in the Object Palette's schema chooser.
TMB-2696	link	Database Health Check does not run against all connections when multiple connections are configured and the health check is executed from command line or from the Automation Designer.
TMB-2697		Team Coding allows multiple people to check out the same object in a specific circumstance.
TMB-2718	link	Database Health Check raises exception when the "list segments with < n%..." check is included and its rules are satisfied.
TMB-2726		Export Dataset does not include "null" text for null fields when the "Include null text" option is used with the Fixed Field Spacing output format.
TMB-2728		An exception is raised when creating the Space History tables in the TOAD schema from the Administer Tablespaces window on Oracle Database 19c.
TMB-2731	link	The list of objects goes blank when viewing Favorites in the Schema Browser after popping the window out.
TMB-2748	link	The Backspace key does not delete TIMESTAMP data from the data grid.
TMB-2762	link	Rebuild Multiple Objects does not restore the NOCACHE cache mode.
TMB-2776		Executing SQL from the Editor with the Auto Trace option enabled may show 0's for all statistics when logged in as SYS.
TMB-2801	link	Script execution using the "SHOW ERRORS" command does not show errors for PL/SQL that is fully qualified to include the schema.
TMB-2822		Failure to execute a SELECT statement joining two or more tables having ambiguous columns when an XMLTYPE column is also included in the result set.
TMB-2829	link	Schema Browser, Clone/Copy schema does not automatically enclose password in double quotes when required.
TMB-2841		When viewing Tablespaces in the Schema Browser treeview display mode, refreshing the detail view (right side of browser) first loads summary data for all tablespaces before returning to the detail panel you had activated.
TMB-2842		When using the "Top to Bottom" layout in the Session Browser the height distribution between the top and bottom areas of the window is not remembered.
TMB-2844		Changing the active session does not always return to the last activated window for that session.
TMB-2908		Import Table Data may hang Toad when importing from Access file (.mdb) when LOB columns are involved.
TMB-2935	link	Refreshing the Schema Browser will refresh the window twice when more than one Schema Browser window is open.
TMB-2989		When exporting Table DDL with the "All LOB Parameters" option enabled, the RETENTION parameter is omitted from the DDL if it is set to the default

Issue ID	Link to Forum Post	Resolved Issue
		value.
TMB-2996	link	Automation Designer, Actionable Query action, converts PL/SQL to uppercase.
TMB-2997		Generate Schema Script places INDEX DDL before corresponding TABLE DDL when the "File will be used for HTML schema doc generation" option is enabled (Output Snapshot Files).
TMB-3012	link	Alter Credential does not allow for the scheduler credential password to be changed.
TMB-3013	link	Export DDL generates an incorrect script for users having IDENTIFIED BY VALUES clause with a password containing a space.
TMB-3015		The Data Grid Popup Editor throws an Access Violation exception when it's open and data is deleted from the grid.
TMB-3020		In the Editor, executing an anonymous block utilizing DBMS_SQL.RETURN_RESULT() does not return a result. "Execute/compile statement at caret (F9)" and "Execute as script (F5)" are both affected.
TMB-3067		When viewing a tablespace in the Schema Browser the status is not reported properly in some cases. Also, setting an offline tablespace to online in the Alter Tablespace window does not set the tablespace to online.
TMB-3088	link	Maximizing Toad from a minimized state does not restore the active window in some cases.
TMB-3089	link	Team Coding does not reflect an object's locked status when it has been locked by an external application.
TMB-3091		Team Coding does not obey the Editor's "Substitution Variable Prompting" option when differences are found between the VCS and database versions of the source code.
TMB-3105		Compare Data throws ORA-01446 when comparing complex views.
TMB-3107	link	Session Browser shows duplicate parallel slaves in some cases.
TMB-3132		Auto Optimize SQL window throws an ORA-01005 exception when connected as a globally authenticated user.
TMB-3143	link	Export Dataset quotes null values when the "Double quote strings" and "Single quote numbers" options are used with the Delimited Text output format.
TMB-3144	link	Toad does not remember the window usage order, i.e. closing a window does not activate the next, most recently used window.
TMB-3194	link	Poor performance opening large XML files in the Editor.
TMB-3195	link	Highlighting of matching braces in the Editor can perform poorly in some cases, especially with large XML that is compacted so that it exists on a single line.
TMB-3213		Toad will throw an exception or crash when trying to select a workspace from the workspace chooser when two or more have the same name.
TMB-3214	link	Data Grid Popup Editor does not restore when it is minimized and a grid cell

Issue ID	Link to Forum Post	Resolved Issue
		is double-clicked.
TMB-3235	link	Export Dataset using the Excel File output format does not respect variables in the "Sheet name," e.g. %ActiveEditorTabCaption%.
TMB-3247		Compare Data performs poorly when comparing LOBs across multiple sessions.
TMB-3266		After loading a saved workspace, the Editor prompts to reload files unnecessarily when the "Prompt for reload on activation if timestamp has changed" option is enabled.
TMB-3286	link	Rebuild Multiple Objects window generates invalid SQL when rebuilding LOB Segments for columns of type SDO_GEOMETRY.
TMB-3288	link	Generate Data chooses the incorrect column when referencing foreign columns for values in some cases.
TMB-3289	link	In Analyze Objects, the final page showing all objects to be analyzed does not adjust the column widths optimally.
TMB-3301	link	Compare Data uses the wrong session for one of its queries when comparing data between two different sessions.
TMB-3308	link	Team Coding Team Projects does not allow for escaping wildcard characters (_, %, ?, *) when specifying include/exclude object type filters.
TMB-3310	link	Session Browser throws List Index Out of Bounds exception when activating the Explain Plan tab when the "Fetch details" checkbox is in the unchecked state.
TMB-3315		Switching the active workspace causes the Editor to throw an Access Violation exception in some cases.
TMB-3364	link	Team Coding adds collation options to all string column and table DDL.
TMB-3375		Connections to Team Coding controlled databases are slow with a large number of controlled objects.
TMB-3377		The "SQL area" data series shown in the Database Monitor, Miss Ratios graph is ambiguous.
TMB-3379	link	Workspaces do not support Describe windows.
TMB-3381	link	Drag/drop tabs in the Editor to reorder them causes the Navigator panel to go blank.
TMB-3384	link	In the Data Grid, double clicking a cell containing nested table data shows the nested data on the first invocation of the dialog, but not on subsequent invocations.
TMB-3393	link	Test Connection (Reconnect) does not allow for entering an updated password when it has been changed externally, setting a new password when it has expired, or unlocking an account that has been locked externally.
TMB-3402		Alter Job produces invalid SQL when changing the "Subsequent Executions" value in some cases.
TMB-3430	link	Generate Schema Script lacks option to create filenames in lowercase.

Issue ID	Link to Forum Post	Resolved Issue
TMB-3435	link	There is no way to see a view's invisible columns when browsing the columns or the data of a view from the Schema Browser.
TMB-3447	link	Data Grids resulting from "Execute Script (F5)" in the Editor are obscured by a large tooltip/hint showing the SQL that produced the data.
TMB-3448		Code Analysis produces incorrect CRUD matrix for MERGE statements.
TMB-3450		Toad cannot be shared as an application/window during a Microsoft Teams call.
TMB-3464	link	Session Browser shows duplicate parallel slaves in some cases.
TMB-3468	link	DB Health Check produces script containing duplicate indexes having the same name when the "List foreign keys with no matching index on child table" check is enabled in some cases.
TMB-3471	link	DB Health Check produces blank output when using the check(s) involving the FILESYSTEMIO_OPTIONS parameter in some cases.
TMB-3472	link	HTML Database Doc Generator is missing some fields from the V\$DATABASE table in the report output.
TMB-3477		Support Bundle lists a defunct module, QP5CA.dll.
TMB-3493		Shortcut keystrokes are not handled properly when Citrix Workspace App is installed with the "App Protection" option enabled during its installation.
TMB-3537		Toad 64-bit on Windows 10 and Windows Server 2016 cannot make database connections when Dynatrace application monitoring software is installed.
TMB-3545	link	Export Dataset does not detect schema or table name properly when the "Cast XMLTYPE to CLOB" option is set to XMLSerialize on the "Data Grids Data" page in Options.
TMB-3549	link	Generate Schema Script includes compression options for tables in the output script when the "Compression" option is set to "Never" (Options Storage Compression) and when any tablespaces are included (Extract Object Types).
TMB-3557	link	Redo Log Manager gives incorrect group membership recommendation when the members reside on high redundancy disk groups.
TMB-3559	link	Describe window can throw an Access Violation exception in some race conditions.
TMB-3560	link	In the Data Grid, double clicking a cell containing cursor data shows the data on the first invocation of the dialog, but not on subsequent invocations.
TMB-3576	link	Export Dataset erroneously includes identity columns when the Insert Statements output format is used.
TMB-3594	link	When the Editor has focus with an unmodified tab active and SQL Recall is also visible, Save (Ctrl+S) will invoke the SQL Recall's export functionality.
TMB-3596	link	Export DDL and the Tables Script tab in the Schema Browser includes the schema name in sequence references even when the option to include schema name is set to not include.
TMB-3611	link	Schema Browser shows incorrect tablespace percentage used on RAC

Issue ID	Link to Forum Post	Resolved Issue
		container databases in some cases.
TMB-3617	link	When Toad cannot locate sqlplus.exe there is no indication of a problem when attempting to send a script from Toad to SQL*Plus.
TMB-3623		Named SQL recall popup in Editor adds unnecessary scroll bars causing text to not be shown completely.

Toad for Oracle 13.3

The following list of resolved issues includes issues received from the Toad for Oracle forum and Toad Beta users.

Issue ID	Link to Forum Post	Resolved Issue
TMB-2464	link	Painting issues for unpinned (autohide) dock panels upon startup
TMB-2454	link	Resource leaks in script execution status dialog
TMB-2431	link	Incorrect recommendation that object name must be double quoted in select create (or alter) object windows
TMB-2430	link	Database Health Check fails to run via command line for all connections if only one has a wrong password specified
TMB-2413		Changes to a Code Analysis Rule Set are not saved when saving to previously exported Rule Set file
TMB-2408	link	No Explain Plan results in some cases when the Explain Plan table exists in multiple schemas
TMB-2393		"Invalid Oracle Home" message shown for instant clients installed to a folder named "bin"
TMB-2354	link	Sequence last cache value is incorrectly reporting the maximum value
TMB-2340	link	Error encountered when publishing Java class containing forward slash in its name to PL/SQL
TMB-2299	link	Cannot copy individual cell values from the Partitioning tab when viewing a table
TMB-2297		Incorrect DDL generated for table having foreign key referencing a view
TMB-2272	link	Cannot edit saved direct connection so that it uses Service Name or SID
TMB-2271	link	Incorrect font used for some columns when viewing table data in grid
TMB-2260		Export Dataset data masking does not work in some cases
TMB-2256	link	Export Dataset parses SQL file incorrectly in some cases
TMB-2250		ORA-00900 when using the Data Masking option with SQL Text dataset in the Export Dataset window and action
TMB-2249		Copy/paste a block selection containing multibyte characters causes

Issue ID	Link to Forum Post	Resolved Issue
		exception when pasting
TMB-2245	link	Code navigator when describing a package does not update properly
TMB-2243	link	Export Dataset, Excel File format, exports the date 1-1-1900 as a string instead of a date
TMB-2241	link	Control alignment/position issues when resizing Session Browser
TMB-2238		Contexts, Dimensions, and Policies are not shown in the Schema Browser when connected to a database that does not support Java, e.g. Oracle XE
TMB-2226	link	Data Grid is slow to load for queries having many columns in the result set when Sensitive Data Protection Awareness is enabled
TMB-2225		Editor, Toggle Full Screen Grid (Shift+F2) paints poorly and is non-functional in some cases
TMB-2212	link	Export Dataset, Merge Statements, incorrect SQL generated when table primary key consists of all columns
TMB-2201		Administer Tablespace window problems (duplicate rows, privilege exception) when connected to Oracle 12.1 container database
TMB-2192		Cannot edit data in grids for index-organized tables
TMB-2153		The "OK" button does not enable when altering a tablespace and changing the maximum size value for a datafile
TMB-2146		Auto-connect not working when more than one connection is set to connect automatically upon Toad startup
TMB-2057	link	Compare Schemas incorrectly flags DEFAULT_COLLATION as a difference and produces SQL error on target database in some cases
TMB-2034	link	Window bar buttons do not update connection colors properly
TMB-2030	link	Query results take too long to become available
TMB-2009		Database Probe hangs on Oracle 11g Release 2
TMB-1973	link	Data Grid is read-only when executing SELECT from table having XMLTYPE column despite ROWID being returned
TMB-1970		Code Analysis results in JSON format specifies wrong object owner in some cases
TMB-1948	link	Analyze Objects window opens to the wrong connection in some cases
TMB-1918	link	Export Dataset incorrectly excludes XMLTYPE columns when the option to exclude virtual columns is enabled
TMB-1872		Creating an Oracle 18c or 19c pluggable database fails if the container database is non-Exadata
TMB-1849	link	Access Violation generating Explain Plan
TMB-1818	link	Duplicate Row in the data grid will hang Toad if followed a Find (Ctrl+F)
TMB-1808	link	Rebuild Table changes INTEGER to NUMBER
TMB-1799	link	SELECT * FROM TABLE(dbms_xplan.display_cursor) showing unexpected result

Issue ID	Link to Forum Post	Resolved Issue
TMB-1745	link	Compare Files vertical scrolling is too aggressive when the scrollbar is clicked
TMB-1704		"Data type not supported" error when viewing cursor output containing TIMESTAMP or INTERVAL fields
TMB-1624	link	Compare Schemas uses DBMS_REDEFINITION to sync tables at times when it shouldn't
TMB-1609		Sending PL/SQL from the Set Parameters window to Toad Script Runner for execution passes SQL that is incomplete resulting in error
TMB-1604	link	Explain Plan results in "ORA-01775: looping chain of synonyms" error
TMB-1587	link	Windows high contrast option is not obeyed in some windows
TMB-1552		"No mapping for the Unicode character exists in the target multi-byte code page" exception upon Toad startup/shutdown

Toad for Oracle 13.2

The following list of resolved issues includes issues received from the Toad for Oracle forum and Toad Beta users.

Issue ID	Link to Forum Post	Resolved Issue
TOR-822		Generated block produces variable names exceeding 30 chars
TOR-1176		Can't use Korean font
TOR-1263	link	Breakpoint positions are lost when formatting
TOR-1831	link	Impossible to CTRL+Click on package name
TOR-2105		Toad 12.12 menu font size does not change with Windows Control Panel display setting at 125%
TOR-2249	link	SQL using ANSI join within PL/SQL doesn't execute when selected
TOR-2254		The Script Tab not showing NULL values
TOR-2603		overloaded procedure always selects the first instance when executing from the Schema Browser
TOR-2617		Default schema does not work in Editor as it used to.
TOR-2647		SVN: object fails if the comment matches the VCS Project name
TOR-2661		Rule 6405 is not triggered
TOR-2671		LIOOB querying tables with nested column types
TOR-2731	link	Format Case Only replaces tab with space
TOR-2789		Opening Saved SQL from SQL Recall no longer displaying the name of the Saved SQL

Issue ID	Link to Forum Post	Resolved Issue
TOR-2853		TSR prompts for password if it contains a space
TOR-2911		Connection colors not changing in windows - requires restarting Toad
TOR-3013		show pdirs command does not work in F5
TOR-3056		" Alt+/" not working for Upper case
TOR-3068		ORA-01017 error occurred when Toad recovers after crashing and reconnects.
TOR-3080		Cannot modify menu shortcut if it conflicts with another command
TOR-3106		Can't type € into the Toad Editor, Schema Browser, Import Filter, etc.
TOR-3114		When closing password prompt for connection, connection window closes
TOR-3128		Error and AV when altering a table when not restricted through Toad Security
TOR-3130		Compare Objects - Ignored Object Names cause false differences
TOR-3149	link	Editor not opening correctly in SDI and One/Connection
TOR-3152	link	Editor removes unprintable characters
TOR-3161	link	Run Proc changing Toad's date format.
TOR-3164		SB Data filtering not working properly for certain tables
TOR-3167		Editor wrongly changing current schema after query when logged in as SYSDBA
TOR-3168		File splitting adds additional tags and open tabs with every save and split
TOR-3186	link	Java name not shown on tab caption after compile
TOR-3194		Custom Data Filter in schema browser not working correctly
TOR-3195	link	No way to include leading spaces on data import
TOR-3196		F4 Does not work in Current Statement tab
TOR-3214	link	ORA-01719 during Schema compare
TOR-3245		Oracle Compatible Version handled incorrectly
TOR-3248	link	Unchecking columns still includes them in SQL*Loader Control File
TOR-3250		OS Date settings not correctly detected
TOR-3251		ORA-00922 running tablespace script in Exadata 18c
TOR-3252		Data Generation - Commit Every option not saved in SQL*Loader file
TOR-3261	link	CTRL+Insert not working in all grids
TOR-3265		/EXEC comman line parameter non-functional
TOR-3266		Toad's date format changing when windows date format changing
TOR-3280		Script generation queries against V\$IM_COLUMN_LEVEL even when "In Memory" option is set to "Never"

Issue ID	Link to Forum Post	Resolved Issue
TOR-3282		"Display all results in grid" not remembered in Export Dataset
TOR-3283		Auto Optimize won't connect EXTERNAL or Proxy connection
TOR-3285		F9 can stop working in the editor in SDI mode
TOR-3296	link	Explain Plan not switching RAC instances in session browser
TOR-3297		Tables skipped if different PK but "Use DB Link" option checked
TOR-3299	link	Access Violation with cursor bind variable
TOR-3304		Toad slow to start
TOR-3309		Full snippet is not detected correctly
TOR-3313		Large VARCHAR2 columns (>4000 chars) not copied
TOR-3315		Cntrl+Enter not working correctly when code includes Tabs
TOR-3341		Temp tbs of pluggable does not show while on container
TOR-3343		Missing support for LOW lob compression in GUI
TOR-3351		Spotlight essentials login fails
TOR-3360		Collation clause sometimes appears when not valid
TOR-3371	link	Navigator not sorting alphabetically
TOR-3375		Toad Schema Browser access violation when refreshing job details in treeview
TOR-3376	link	SQL Recall allowing duplicate statements to stack up
TOR-3384		Auto commit option reinstated
TOR-3387		Script is missing constraint references
TOR-3388	link	Import Table Data looking at wrong decimal/thousand separator settings
TOR-3415	link	Ctrl+Right does not stop on period
TOR-3433	link	Fetch can't be cancelled on "group by"
TOR-3439	link	DBMS Output polling not working
TOR-3448	link	SB LHS and RHS can get out of sync
TOR-3452		Ctrl+Del behavior differs from Toad 12.7 and earlier
TOR-3453	link	Editor dock layout is not remembered
TOR-3454		Can't always choose target table for export
TOR-3456		Access Violation when closing tab
TOR-3457		F5: Invalid data for a node of type 'CDATA' when running a query against dba_hist_sql_plan
TOR-3519		Error when trying to get index size from LHS Indexes
TOR-3557		Code Analysis messages window not being shown when no violations exist and manually launched

Issue ID	Link to Forum Post	Resolved Issue
TOR-3587		SQLLoader can't run control files that specify datafile w/o path
TOR-3564		Script generation of Unified Audit Policies throws exception in Oracle 19c
TOR-3600	link	Grid Find Dialog difficult to select rows
TOR-3602	link	Error message is corrupt
TOR-3610		Use ALTER instead of CREATE OR REPLACE when possible with TYPES
TOR-3615	link	Can't get past first nested object in grid popup editors
TOR-3618		DESC command is reporting wrong column size
TOR-3648	link	Trigger Scripts: Schema name not getting added/removed in FOLLOWS
TOR-3701	link	Next run date calculation sometimes showing wrong timestamp
TOR-3784	link	Negative values appearing in Wait Event chart
TOR-3796		ORA-00942 in Schema Browser with Oracle Cloud ATP and SELECT ANY DICTIONARY privilege
TOR-3853	link	Import Table Data GUI problem importing from multi-sheet excel file
TOR-3863	link	Excessive white space at bottom of grid with vertically oriented monitor
TOR-3929	link	File Compare/Merge window cuts off underscores when font size is increased
TOR-3970	link	Object Type list is empty when compare single object is launched from DESC window
TOR-4013		RETENTION clause wrong in scripts with securefile LOBs.

You can find the most up-to-date list of resolved issues for this release in the *Toad for Oracle Release Notes* found at: <https://support.quest.com/toad-for-oracle/technical-documents>.

Known issues

The following is a list of issues, including those attributed to third-party products, known to exist in this release line at the time of the current release.

General known issues

Known Issue	Issue ID
Toad's help cannot be opened from an installation path that contains Unicode characters.	72966
<p>If you check "Indexes" on the Scripts tab for snapshots, then the primary key for the snapshot will be included in the script, even though the CREATE MATERIALIZED VIEW statement implicitly creates this primary key.</p> <p>Toad currently does not differentiate between indexes created explicitly on the snapshot and indexes created automatically when the snapshot is created.</p> <p><i>Workaround:</i> If you are running the generated script to recreate the snapshot, then you can simply ignore the error that occurs when the script tries to recreate the primary key index for the snapshot. If you do not normally create indexes on snapshots, then you can uncheck "Indexes" when generating the snapshot script.</p>	N/A
<p>If you use 11g Oracle ODP.NET client or any other client that does not have the oci.dll in the BIN directory, Toad has the following problems:</p> <ol style="list-style-type: none">1. Client shows as invalid2. Client version is not detected3. As a result of #2, columns of the following datatypes are not shown in the Schema Browser table data: CLOB, BLOB, NCLOB, XMLTYPE, TIMESTAMP, INTERVAL, BINARY_DOUBLE, and BINARY_FLOAT	N/A
<p>Debugger</p> <p>If there is an exception during debugging on a 10Gr2 or greater database, REFCURSOR output and DBMS output will not be available when debugging is completed. This is due to the target session not being available.</p> <p><i>Workaround:</i> To see REFCURSOR output and DBMS output, execute the procedure without the debugger.</p>	N/A
<p>Connections</p> <p>While Toad supports LDAP connectivity, some features of Toad depend on tnsnames.ora file to operate correctly, such as Toad Script Runner (TSR).</p>	N/A

Known Issue	Issue ID
<p>Schema Browser</p> <p>Sometimes after pressing "Compile invalid objects", you may get ORA-20000, ORA-06512, or ORA-06512 errors. This could mean that you do not have the privileges to compile the object, but it also happens when the schema contains a package body that does not have an associated spec.</p> <p><i>Workaround:</i> Look in the schema that you are trying to compile to see whether there are any orphan package bodies. If it is your own schema, then do:select * from user_objects o1 where object_type = "PACKAGE BODY" and not exists (select "x" from user_objects o2 where o2.object_name = o1.object_name and o2.object_type = "PACKAGE") Then drop any orphan package bodies that are found.</p>	N/A
<p>Virtualization</p> <p>An access violation error may display when you close Toad in a Citrix XenApp environment.</p>	76354
<p>Import/Export</p> <p>Constraint scripts from Export DDL do not contain the "using index" or "tablespace" clause.</p>	59228
<p>Data Modeler:</p> <ul style="list-style-type: none"> • Generation of HTML reports of large diagrams may fail during generation of an image of the ER Diagram. • Comparison of large models may consume too much memory. 	N/A

Data Grids known issues

Known Issue	Issue ID
<p>You may receive an "ORA-00902 invalid datatype" error when editing an object, nested table, or varray data if you have redefined the data type for that data during the current session.</p> <p><i>Workaround:</i> If you redefine an object type, nested table, or varray and then need to edit data in a table based on that type, end your current connection and begin a new one.</p>	N/A
<p>Full table data is not displaying in the live data grid (results from F9) if the data contains "zero" characters (ASCII 0). In this case, all data after the zero character will not show in the grid.</p> <p><i>Workaround:</i> Double click on the data cell in the data grid to view full contents of data in a popup editor.</p>	

Code Analysis known issues

Known Issue	Issue ID
<p>Saving results to a database: When dealing with nested procedures, Code Analysis can only insert run data from procs one level deep.</p>	N/A
<p>Saving PL/SQL results to a database may fail or save invalid data to the database for invalid</p>	N/A

Known Issue	Issue ID
<p>PL/SQL objects.</p> <p><i>Workaround:</i> To ensure PL/SQL results are saved to the database correctly, verify the validity of all objects before running Code Analysis.</p>	

Editor known issues

Known Issue	Issue ID
<p>Toad errors when you query on a field of Oracle collection types.</p> <p><i>Workaround:</i> Execute using SQL*Plus.</p>	64373
<p>When spooling to an unpinned output window, the window becomes unresponsive and errors are given when Toad is closed ("Canvas does not allow drawing").</p> <p><i>Workaround:</i> Keep the output window pinned.</p>	68523
<p>If you use a non fixed-width font, the results are misaligned in the of Script Output tab in Editor after executing a SQL script.</p> <p><i>Workaround:</i> Go to Options Scripts and select a fixed-width font for script output.</p>	62234

Session Browser known issues

Known Issue	Issue ID
<p>The Program name in the Session Browser may be blank or may be the full path to the executable instead of just the executable name. This depends on the Oracle client, not on Toad.</p>	N/A
<p>In RAC databases, version 10.1.0.3 (and possibly other 10.1 versions), the query used to populate the "Current Statement" in the Session Browser fails with the following error: Runtime error occurred: 12801 (ORA-12801: error signaled in parallel query server PZ99, instance <instance name> ORA-01008: not all variables bound) This problem does not occur in Non-RAC environments.</p> <p><i>Workaround:</i> Clear the "Use RAC Views" checkbox, and log into the appropriate instance of the database, if necessary.</p>	N/A

Team Coding known issues

Known Issue	Issue ID
<p>Creating a new revision or attempting to force a check-in to Visual Studio Team Services may result in a "404: Not Found" error. The current version of Team Foundation Server used by Visual Studio Team Services compares the source being uploaded with the source already in the repository. If the source has not changed, it may incorrectly return an error rather than allowing the forced revision. This appears to be a Microsoft issue. As a result, these two</p>	N/A

Known Issue	Issue ID
commands may fail.	
When using the Team Foundation Server internal client and Team Foundation Server 2012 or 2013 alternate Team Project Collections, workspaces created outside of Toad are not visible from within Toad. A workspace may be created from Toad by clicking the 'New' button during the Team Foundation Server log in. This is not an issue when using the Team Foundation Server external client.	114334
Team Coding is disabled for mixed-case object names.	N/A
With CVS, Toad may fail to retrieve the list of projects for you to select from in the CVS browser or in the Code Control Groups configuration. <i>Workaround:</i> See "Missing CVS\Entries File Error" in the online help.	N/A
Team Coding and Clearcase: Dynamic Views are not supported via SCC interface. Snapshot Views must be used instead. (Rational case ID v0830629, Rational Defect# CMBU00053934)	N/A

Unicode known issues

Known Issue	Issue ID
The following features in Toad do not support Unicode: <ul style="list-style-type: none"> • ASM Manager • Export File Browser • Hex Editor In addition, Java itself does not allow Unicode class names or file names. This is relevant to the Java Manager, Editor, and Schema Browser.	N/A
Editor options to highlight object names may not work for object names that contain Unicode characters.	N/A
Script Execution in Editor: Error offset can be incorrect when running scripts with multi-byte object names.	N/A
XML (Plain) format creates bad XML if Unicode string values and Unicode column names are exported through Export Dataset.	N/A
Import mapping for Unicode characters is incorrect if the characters are not a fixed width (such as Korean).	63221
In Team Coding, objects with Unicode <i>contents</i> are supported, objects with Unicode <i>names</i> are not. Supported Version Control Providers do not support Unicode names.	N/A

High DPI known issues

Known Issue	Issue ID
<p>Toolbars</p> <p>(Affects Windows Server 2019 only)</p> <p>Toolbar button images may disappear when you mouse over them if the "High DPI scaling override" option is set to "System (Enhanced)" in the Windows file properties dialog for Toad.exe</p>	N/A

Third-party known issues

Known Issue	Issue ID
<p>Help</p> <p>(Affects the 64-bit version of Toad only)</p> <p>If IE9 is installed, clicking a link in the Help file may crash Toad 64-bit, even if IE9 is not the default browser.</p> <p><i>Workaround:</i> Users who have IE9 installed can open Help from outside of Toad.</p>	N/A

System requirements

This section contains the hardware, software, and privileges required to run Toad for Oracle, as well as the database and virtual environments that Toad for Oracle supports.

Hardware requirements

Requirement	Details
Processor	1 GHz processor
Memory	<ul style="list-style-type: none">• 1 GB RAM - Toad for Oracle 32 bit• 2 GB RAM - Toad for Oracle 64 bit <p>NOTE: The memory required may vary based on the following:</p> <ul style="list-style-type: none">• Applications that are running on your system• Size and complexity of the database• Amount of database activity• Number of concurrent users accessing the database
Hard disk space	<ul style="list-style-type: none">• 120 MB - Toad for Oracle 32 bit• 150 MB - Toad for Oracle 64 bit
Operating system	<ul style="list-style-type: none">• Windows Server 2008 R2 (64-bit) - 2 CPU required• Windows 8 and 8.1 (32-bit and 64-bit)• Windows Server 2012 (32-bit and 64-bit) - 2 CPU required• Windows Server 2012 R1 and R2 (64-bit) - 2 CPU required• Windows Server 2016• Windows Server 2019• Windows 10

Database requirements

Requirement	Details
Database client	<p>An Oracle client must be installed and configured on the system where you are running Toad. The following are supported:</p> <ul style="list-style-type: none">• Oracle Client or Instant Client 10.2.0.5• Oracle Client or Instant Client 11.2.0.1/11.2.0.3• Oracle Client or Instant Client 12c Release 1 and 2• Oracle Client or Instant Client 18c• Oracle Client or Instant Client 19c <p>NOTE: You must use the 32-bit version of Toad with the 32-bit Oracle client, and the 64-bit version of Toad with the 64-bit Oracle client.</p>
Database server	<p>Oracle versions:</p> <ul style="list-style-type: none">• 10g Release 2• 11g Release 1 and 2• 12c Release 1 and 2• 18c• 19c <p>IMPORTANT: It is recommended that your client version be of the same release (or later) as your database server. This is an Oracle recommendation to prevent performance issues.</p>
Cloud database service	Oracle Database as a Service on Amazon EC2 and Oracle Cloud

Network

- Internet Protocol Version 6 (IPv6) is being adopted by the US Federal Government and industries around the world. In its most basic format, the new protocol uses 128-bit addresses instead of 32-bit addresses, which are used by the current IPv4 to route packets over the Internet. Toad for Oracle features, such as FTP, access the Internet through third-party vendors that are IPv6 compliant, such as /nSoftware's IP*Works. For access to Web sites by way of the Toad Online window, Toad simply invokes the user-defined or default Web browser.
- Toad for Oracle Subscription edition is bundled with an update service to periodically check for and deliver product updates. The update service requires internet access and must be able to reach the cloud service at <https://autoupdate.toadworld.com>.

Additional requirements

Requirement	Details
Additional Software	<ul style="list-style-type: none">• Microsoft Internet Explorer 6.0 or later (to view video from the Jump list within Toad, and to view the product documentation in HTML format).• Microsoft Office 2016 and recent earlier releases are supported for Word and Excel output.• Adobe Acrobat Reader 7.0 or later (to view the product documentation in PDF format).• Microsoft .NET Framework 4.0 to support the Toad for Oracle Editions Installer.

Virtualization support

Type	Details
Application virtualization	Citrix® XenApp
Desktop virtualization (VDI)	vWorkspace™ 7.0 has been tested.
Server virtualization	Oracle VM 3.1 has been tested. VMware ESX Server 3.5, 4.0, and 5.5 have been tested.

NOTE: Toad may work in virtualization environments other than the ones listed.

Windows Privileges

In order to install and run Toad, make a connection, and do basic operations, you must have the following privileges.

Operating System	Requirements
Windows 8 and later	<ul style="list-style-type: none">• Read access to the Oracle client folder
Windows Server 2012, 2016, and 2019	<ul style="list-style-type: none">• Read/write privileges on the Oracle Home directories that you use for your connections

NOTE: Toad for Oracle Subscription edition is bundled with an update service to periodically check for and deliver product updates. Installation requires administrator privileges on all supported operating systems.

NOTE: Other functionality in Toad may require additional privileges.

Product licensing

Legacy Toad for Oracle with offline license keys

To activate a trial

1. Go to the trial download web page: <https://www.quest.com/products/toad-for-oracle/software-downloads.aspx>, accessed through the product page.
2. Select the Toad for Oracle Edition that you want to try.
3. Log in to your account or register.
4. Accept the license terms.
5. Download the trial file.

To activate a purchased commercial license

1. Go to the Quest Support website: <https://support.quest.com/>
2. Type the name of the product that you want to activate in the **Enter your product to find support** field.
3. Select **Download New Releases**.
4. Download the installer file.

NOTES:

- License keys compatible with Toad for Oracle 9.7 and earlier versions are no longer supported.
- Only the newer 48-character license keys are supported.
- If you have an older license type, the Editions installer points you to the license web page where you can update it.
- Toad supports cumulative licensing. You can add multiple licenses, including those for add-ons like Sensitive Data Protection, to Toad. Toad will use the licenses providing the highest degree of features.

Toad for Oracle Subscription with online licensing

Toad for Oracle Subscription requires you to sign in with your Quest.com account. Licenses are tied to your account giving you the flexibility to use Toad from multiple computers without having to move your license.

Sign in with existing Quest.com account

1. Enter your account email address and password when prompted
2. If you already have a Toad for Oracle Subscription license, no further action is needed
3. If you do not have a Toad for Oracle Subscription license, see **Activating a new license** below

Create a new Quest.com account

1. Select **Sign up for a new account**
2. Enter your account details and select **Sign Up**
3. A confirmation email is sent containing a verification code
4. Enter the code from the email and select **Verify**

NOTES:

- It may take a few minutes for the verification email to arrive
- Check your spam/junk folders for the email sent from supportadmin@quest.com if you do not receive it
- For additional assistance, please contact [Quest support](#)

Activating a new license

1. Toad for Oracle Subscription automatically provides a fully functioning, 30-day Trial license
2. To purchase a new license, click **Buy Now** from Toad's title bar
3. After completing your transaction, restart Toad and your license is automatically detected
4. To manage licenses, select **Account Settings** beneath your account shown at the top-right of Toad

NOTE: You can view your licenses from within Toad by selecting **Help | Licensing**

Getting started with Toad for Oracle

Toad for Oracle is distributed in the Toad for Oracle Editions at <https://support.quest.com/download-product-select>.

Upgrade and installation instructions

Please refer to the Toad for Oracle *Installation Guide* at <https://support.quest.com/technical-documents> for installation and upgrade instructions.

Upgrades for Toad for Oracle can install side-by-side with any previous versions you have installed. You can run the new and previous versions concurrently.

The first time you run the new version of Toad, the settings files from the previous version are automatically imported. To start with a clean set of user files, go to **Utilities | Copy User Settings**, then select **Create a clean set of user files from the base installation**.

NOTE: Toad supports importing settings only if the new version is within two releases of the previous version. If your versions are more than two releases apart, you need to install an intermediate version to successfully import the files.

User instructions

To get started with using Toad for Oracle, see the *Guide to Using Toad* at <https://support.quest.com/technical-documents>. For detailed information about any Toad window or feature, see the online help, which can be accessed from the **Help** menu.

Additional resources

Additional information is available from the Toad for Oracle Community on Toad World:
<https://www.toadworld.com/products/toad-for-oracle>

Globalization

Global Operation Statement

This section contains information about installing and operating this product in non-English configurations, such as those needed by customers outside of North America. This section does not replace the materials about supported platforms and configurations found elsewhere in the product documentation.

This release was not enabled and tested for international operation. Only U.S. English configurations of this product and U.S. English datasets are fully supported. Support for non-ASCII characters or non-English configurations may work appropriately, but these configurations have not been tested and this release should be used with caution in these environments.

This release has the following known capabilities or limitations: Toad 13.1 is a Unicode application. As such, it has native support for any Oracle Unicode character set, such as UTF8 or AL32UTF8. There are some features in Toad which use or invoke Oracle Utilities or applications which are not themselves Unicode applications. Their functionality is therefore limited to the character set of the client on which Toad is running, and NLS_LANG must be carefully set to match the Windows character set

We have also observed issues with US7ASCII when used with non Latin characters.

About us

We are more than just a name

We are on a quest to make your information technology work harder for you. That is why we build community-driven software solutions that help you spend less time on IT administration and more time on business innovation. We help you modernize your data center, get you to the cloud quicker and provide the expertise, security and accessibility you need to grow your data-driven business. Combined with Quest's invitation to the global community to be a part of its innovation, and our firm commitment to ensuring customer satisfaction, we continue to deliver solutions that have a real impact on our customers today and leave a legacy we are proud of. We are challenging the status quo by transforming into a new software company. And as your partner, we work tirelessly to make sure your information technology is designed for you and by you. This is our mission, and we are in this together. Welcome to a new Quest. You are invited to Join the Innovation™.

Our brand, our vision. Together.

Our logo reflects our story: innovation, community and support. An important part of this story begins with the letter Q. It is a perfect circle, representing our commitment to technological precision and strength. The space in the Q itself symbolizes our need to add the missing piece — you — to the community, to the new Quest.

Contacting Quest

For sales or other inquiries, visit www.quest.com/contact.

Technical support resources

Technical support is available to Quest customers with a valid maintenance contract and customers who have trial versions. You can access the Quest Support Portal at <https://support.quest.com>.

The Support Portal provides self-help tools you can use to solve problems quickly and independently, 24 hours a day, 365 days a year. The Support Portal enables you to:

- Submit and manage a Service Request
- View Knowledge Base articles
- Sign up for product notifications
- Download software and technical documentation
- View how-to-videos
- Engage in community discussions

- Chat with support engineers online
- View services to assist you with your product

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Toad for Oracle Release Notes

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