

## Toad® for Oracle Editions 2017 Functional Matrix



<b>Essential Functionality</b>	<b>Toad for Oracle Base Edition</b>	<b>Toad for Oracle Professional Edition</b>	<b>Toad for Oracle Xpert Edition</b>	<b>Toad DB Admin Module (add-on)</b>	<b>Toad for Oracle Developer Edition</b>	<b>Toad for Oracle DBA Edition</b>	<b>Toad for Oracle DBA RAC/Exadata Edition</b>
Runs directly on Windows OS	✓	✓	✓		✓	✓	✓
Browse and navigate through objects	✓	✓	✓		✓	✓	✓
Create and manipulate database objects through graphical interfaces	✓	✓	✓		✓	✓	✓
Edit: snippets, predictive typing, syntax highlighting, code folding, spell check	✓	✓	✓		✓	✓	✓
Customize code templates and code formatter	✓	✓	✓		✓	✓	✓
Save, nickname & share previously executed SQL	✓	✓	✓		✓	✓	✓
Unicode support	✓	✓	✓		✓	✓	✓
<b>Development Functionality</b>							
Query Builder	✓	✓	✓		✓	✓	✓
Integrated Debugger	✓	✓	✓		✓	✓	✓
Automated traditional DBMS_OUTPUT debugging	✓	✓	✓		✓	✓	✓
Advanced ER Diagram with HTML reports and e-mail	✓	✓	✓		✓	✓	✓
Build database code dependencies diagram (Code Road Map)	✓	✓	✓		✓	✓	✓
Compare code difference in database objects and files	✓	✓	✓		✓	✓	✓
External/remote debugging (used when the DB code is called from apps. like Java, C++, VB, etc.)	✓	✓	✓		✓	✓	✓
Export Oracle APEX applications	✓	✓	✓		✓	✓	✓
Convert embedded SQL to other programming languages (Delphi, C, C++, Java, Perl and VB etc.)	✓	✓	✓		✓	✓	✓
View multiple results sets from executed SQL scripts	✓	✓	✓		✓	✓	✓



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Publish Java classes to PL/SQL	✓	✓	✓		✓	✓	✓
Store PL/SQL execution parameters for re-use	✓	✓	✓		✓	✓	✓
Browse Oracle Export Utility file content and selectively extract objects and data	✓	✓	✓		✓	✓	✓
Automate PL/SQL unit test creation and execution and store in repository for future regression testing					✓		
Automatically identify unit tests out of synch with corresponding database source objects					✓		
<b>Team Collaboration</b>	<b>Toad for Oracle Base Edition</b>	<b>Toad for Oracle Professional Edition</b>	<b>Toad for Oracle Xpert Edition</b>	<b>Toad DB Admin Module (add-on)</b>	<b>Toad for Oracle Developer Edition</b>	<b>Toad for Oracle DBA Edition</b>	<b>Toad for Oracle DBA RAC/Exadata Edition</b>
Share common standards and templates	✓	✓	✓		✓	✓	✓
Integrates with multiple version control system providers (inc Git, SVN, TFS and	✓	✓	✓		✓	✓	✓
Perform checkpoints through automated code review validation prior to version control check-in		✓	✓		✓	✓	✓
Manage project assets	✓	✓	✓		✓	✓	✓
Import and Export Code Quality Rules and Rules Sets for team sharing		✓	✓		✓	✓	✓
<b>Code Analysis and SQL Tuning</b>							
PL/SQL profiling to detect code performance bottlenecks	✓	✓	✓		✓	✓	✓
Visual SQL explain plan	✓	✓	✓		✓	✓	✓
Trace user sessions and visually display Oracle Trace file output				✓		✓	✓
Display user session info & performance metrics	✓	✓	✓		✓	✓	✓
Automate code analysis and validation against SQL and PL/SQL coding best practices		✓	✓		✓	✓	✓



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Automated, configurable, objective code review & analysis with reports, maximizing code quality		✓	✓		✓	✓	✓
Identify coding best practice violations dynamically during editing			✓		✓	✓	✓
Identify problematic SQL directly from database objects, files and source code			✓		✓	✓	✓
Automate SQL rewrites for most-efficient SQL alternate (internal to Editor and full external optimizer)			✓		✓	✓	✓
Optimize multiple SQL statements in batch in context with the source code and provide optimized code			✓		✓	✓	✓
Seek Oracle SQL tuning suggestions via the Oracle Tuning Advisor (requires Tuning & Diagnostics Packs)*	✓	✓	✓		✓	✓	✓
Recommend indexing changes based on continuous database workload assessment			✓		✓	✓	✓
Analyze impact of changes to database environment through index simulation			✓		✓	✓	✓
Test SQL and PL/SQL for scalability under simulated user loads to validate performance under production conditions					✓	✓	✓
Track real-time SQL executions from client applications to help locate issues or perform QA	✓	✓	✓		✓	✓	✓
<b><i>Schema, Data and Change Management</i></b>	<b>Toad for Oracle Base Edition</b>	<b>Toad for Oracle Professional Edition</b>	<b>Toad for Oracle Xpert Edition</b>	<b>Toad DB Admin Module (add-on)</b>	<b>Toad for Oracle Developer Edition</b>	<b>Toad for Oracle DBA Edition</b>	<b>Toad for Oracle DBA RAC/Exadata Edition</b>
Advanced, highly productive data grids offering simple column selectivity and grouping	✓	✓	✓		✓	✓	✓
Import/export data from data grid into/from Excel files and other formats	✓	✓	✓		✓	✓	✓
Data compare and synch across multiple tables			✓		✓	✓	✓



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Display table data representing Parent-Child dependencies (Master Detail Browser)	✓	✓	✓		✓	✓	✓
Reverse engineer object DDL including roles & permissions to recreate objects in a different db/schema	✓	✓	✓		✓	✓	✓
Compare schemas using live connections	✓	✓	✓		✓	✓	✓
Compare schemas efficiently with offline snapshot or definition files			✓		✓	✓	✓
Compare and generate Multi Schema change scripts between two database environments			✓		✓	✓	✓
Generate test data (randomized or real-world) with data masking.		✓	✓		✓	✓	✓
Oracle Import/Export utilities	✓	✓	✓		✓	✓	✓
Oracle Spatial data support	✓	✓	✓		✓	✓	✓
Analyze the performance impact of new indexes, index changes and parameter changes on SQL			✓		✓	✓	✓
Analyze the performance impact of moving SQL statements from database to another			✓		✓	✓	✓
Analyze SQL execution plan changes between database environments (i.e. dev. vs. prod. or Oracle 9i vs. 10g)			✓		✓	✓	✓
Replay database workload to simulate production load levels in a test environment prior to deployment or implementation of database or					✓	✓	✓
Reverse engineer database schema into a physical data model, compare with another version and generate alter script**	✓	✓	✓		✓	✓	✓
Reverse engineer physical data model into a platform agnostic conceptual data model**	✓	✓	✓		✓	✓	✓
Round-trip engineer from database or DDL between different database platforms such as Oracle, SQL Server, SAP Sybase, DB2, etc.**	✓	✓	✓		✓	✓	✓



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Compare and generate schema change scripts between two or more schema versions			✓	✓	✓	✓	✓
Compare and generate schema change scripts between two or more versions of offline schema snapshot files			✓	✓	✓	✓	✓
Compare and generate database server change scripts between two or more databases				✓		✓	✓
Compare and generate database server change scripts between two or more versions of offline database snapshot files				✓		✓	✓
<b>Reporting</b>	<b>Toad for Oracle Base Edition</b>	<b>Toad for Oracle Professional Edition</b>	<b>Toad for Oracle Xpert Edition</b>	<b>Toad DB Admin Module (add-on)</b>	<b>Toad for Oracle Developer Edition</b>	<b>Toad for Oracle DBA Edition</b>	<b>Toad for Oracle DBA RAC/Exadata Edition</b>
Generate customizable schema and database reports in HTML format	✓	✓	✓		✓	✓	✓
Automate report generation and distribution	✓	✓	✓		✓	✓	✓
Generate code review reports covering all aspects of code quality assessment		✓	✓		✓	✓	✓
Generate reports on over 200 aspects of database performance, configuration (inc virtualized databases and Exadata), schema, RAC and security vulnerabilities				✓		✓	✓
Generate reports on potentially problematic SQL and optimization results			✓		✓	✓	✓
<b>Database Administration</b>	<b>Toad for Oracle Base Edition</b>	<b>Toad for Oracle Professional Edition</b>	<b>Toad for Oracle Xpert Edition</b>	<b>Toad DB Admin Module (add-on)</b>	<b>Toad for Oracle Developer Edition</b>	<b>Toad for Oracle DBA Edition</b>	<b>Toad for Oracle DBA RAC/Exadata Edition</b>
Control access to protected databases	✓	✓	✓	✓	✓	✓	✓
Browse multiple servers and databases, perform tasks and drill down to object level				✓		✓	✓



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Browse and navigate database-specific objects like tablespaces and roles	✓	✓	✓	✓	✓	✓	✓
Direct access to Oracle Alert log and Oracle Trace files to quickly diagnose issues				✓		✓	✓
Manage database objects, such as tablespaces and rollback segments	✓	✓	✓	✓	✓	✓	✓
Display performance metrics from V\$, GV\$ (RAC) and SGA				✓		✓	✓
Check database for usage of Oracle OEM Options and Pack* and produce reports*				✓		✓	✓
Execute one or more scripts against one or more DBs	✓	✓	✓		✓	✓	✓
<b>Performance Diagnostics and Tuning (Oracle instances)</b>							
Integrate with OEM's performance pack with Oracle Tuning Advisor *	✓	✓	✓		✓	✓	✓
Identify top sessions and resource-intensive SQL	✓	✓	✓		✓	✓	✓
Playback historical activity on Oracle instances to find the source of performance issues						✓	✓
Simple, highly visual alert-based point-and-click problem resolution for Oracle databases including contextual launching from Toad						✓	✓
Simple, highly-visual, alert-based point-and-click problem resolution for Unix, Linux or Windows						✓	✓
Performance diagnostics for Oracle Data Guard						✓	✓
Simple, highly visual alert-based point-and-click problem resolution for MySQL databases						✓	✓
Monitoring of Oracle OEM						✓	✓
Perform database predictive diagnostics to pre-empt and mitigate future performance bottlenecks						✓	✓



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Perform over 200 database health checks including Performance Configuration and Storage featuring Virtualized environments				✓		✓	✓
Collect data from Oracle StatsPack or AWR * and display advisories to correct potential performance issues				✓		✓	✓
Manage space, repair chained rows and estimate space usage				✓		✓	✓
<b><i>Performance Diagnostics and Tuning and Change Management (Oracle RAC and Exadata)</i></b>	<b>Toad for Oracle Base Edition</b>	<b>Toad for Oracle Professional Edition</b>	<b>Toad for Oracle Xpert Edition</b>	<b>Toad DB Admin Module (add-on)</b>	<b>Toad for Oracle Developer Edition</b>	<b>Toad for Oracle DBA Edition</b>	<b>Toad for Oracle DBA RAC/Exadata Edition</b>
Perform over 200 database health checks including Oracle RAC configuration and Exadata				✓		✓	✓
Simple, highly visual alert-based point-and-click problem resolution for Oracle RAC and Exadata							✓
Visualize instance, cluster and interconnect levels for Oracle RAC performance diagnostics							✓
Launch Spotlight on Oracle directly in context with an instance exhibiting performance issues							✓
Playback historical activity to find the source of performance issues							✓
Perform industry standard benchmark testing on Oracle RAC to determine optimum CPU/node config.					✓	✓	✓
Replay database workload to simulate production load levels in a test Oracle RAC environment prior to deployment or implementation of RAC configuration, database or platform changes					✓	✓	✓
Visualize and diagnose real-time performance problems in Oracle Exadata environments including storage server nodes, Smart Scan and Smart Flash							✓



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<i>General</i>	Toad for Oracle Base Edition	Toad for Oracle Professional Edition	Toad for Oracle Xpert Edition	Toad DB Admin Module (add-on)	Toad for Oracle Developer Edition	Toad for Oracle DBA Edition	Toad for Oracle DBA RAC/Exadata Edition
Read-only mode	✓	✓	✓		✓	✓	✓
Restrict access to Toad features	✓	✓	✓		✓	✓	✓
Direct access to feature-based videos	✓	✓	✓		✓	✓	✓
Direct access to product windows, menus, options, support portal and online articles/blogs on user community with single click using a Jump Search	✓	✓	✓		✓	✓	✓
Get help from Toad World via Blogs/Articles and Participate in forums, from within Toad	✓	✓	✓		✓	✓	✓
Access online community inc free web-based training courses via web browser	✓	✓	✓		✓	✓	✓
Access to Tech Support Knowledge Base via Jump Search (best practices, examples, error messages)	✓	✓	✓		✓	✓	✓
Distribute and optionally enforce configurations and settings to group of users	✓	✓	✓		✓	✓	✓
Share, schedule and automate tasks across one or more DBs with macro/action record/playback	✓	✓	✓		✓	✓	✓
<b><i>Multi-database functionality</i></b>	**	**	**		**		
Reverse engineer database schema into a physical data model, compare with another version and generate alter script	✓	✓	✓		✓	✓	✓
Reverse engineer physical data model into a platform agnostic conceptual data model	✓	✓	✓		✓	✓	✓
Round-trip engineer from database or DDL between different database platforms such as Oracle, SQL Server, Sybase, DB2, Ingres, etc.	✓	✓	✓		✓	✓	✓





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<i>Database development team collaboration (requires addition of Toad Intelligence Central (Community Edition) server***)</i>	Toad for Oracle Base Edition	Toad for Oracle Professional Edition	Toad for Oracle Xpert Edition	Toad DB Admin Module (add-on)	Toad for Oracle Developer Edition	Toad for Oracle DBA Edition	Toad for Oracle DBA RAC/Exadata Edition
Create users and project groups on Toad Intelligence Server via Windows Active Directory integration. Control artifact read/write access.	✓	✓	✓	✓	✓	✓	✓
Publish and Get shared files, templates and other artifacts to ensure true collaborative teamwork. Updates made to artifacts can be enforced automatically to Toad for Oracle user community	✓	✓	✓	✓	✓	✓	✓
Install Team Coding repository on Toad Intelligence Central to centralize access to VCS for different dev teams	✓	✓	✓	✓	✓	✓	✓
Provide comprehensive development quality reporting through web server for unit testing, code reviews, Team Coding events and database health checks.					✓		

\* Optional functionality. May access OEM packs. This is disabled by default.

\*\* Delivered through Toad Data Modeler, available for free use.

\*\*\*Available for download from <https://www.toadworld.com/m/freeware/1566>

**Please Note: Quest relies on information from a variety of sources in preparing this document. While every attempt is made to ensure its accuracy, errors or omissions can occur.**