Toad® for Oracle Editions 2018 R2 Functional Matrix

Quest

Essential Functionality	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
Runs directly on Windows OS	✓	✓	✓		✓	✓	✓
MDI and SDI window mode to support twin monitors	✓	✓	✓		✓	✓	✓
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	✓	✓	✓		✓	✓	✓
Development Functionality							
Query Builder	✓	✓	✓		✓	✓	✓
Integrated Debugger (DBMS and JDWP)	✓	✓	✓		✓	✓	✓
Automated DBMS_OUTPUT.PUT_LINE debugging	✓	✓	✓		✓	✓	✓
Advanced ER Diagram with HTML reports and e-mail	✓	✓	✓		✓	✓	✓
Build database PL/SQL 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.)	✓	✓	✓		✓	✓	✓

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View multiple results sets from executed SQL scripts	✓	✓	✓		✓	✓	✓
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 or as part of a DevOps build automation process using Toad DevOps Toolkit. Toad DevOps Toolkit Trial					✓		
Automatically identify unit tests out of synch with corresponding database source objects					✓		

Team Collaboration	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
Share common standards and templates	✓	✓	✓		✓	✓	✓
Integrates with multiple version control system providers (inc Git, SVN, TFS & Mercurial)	✓	✓	✓		✓	✓	✓
Perform 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		✓	✓		✓	✓	✓
Access to Toad World user forums inside Toad for advice, problem resolution and knowledge transfer	✓	✓	✓		✓	✓	✓
Access to free web-based Toad Training classes on Toad World launchable from inside Toad	✓	✓	✓		✓	✓	✓

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Code Analysis and SQL Tuning							
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		✓	✓		✓	✓	✓
Automated, customizable, 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	✓	✓	✓		✓	✓	✓

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Schema, Data and Change Management	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
Advanced, highly productive data grids offering simple column selectivity and grouping	✓	✓	✓		✓	✓	✓
Monitor and report on Personally Identifiable Information (sensitive data) to help support GDPR		✓	✓	✓	✓	✓	✓
Import/export data from data grid into/from Excel files and other formats	✓	✓	✓		✓	✓	✓
Data compare and synch across multiple tables			✓		✓	✓	✓
Display table data representing Parent-Child dependencies (Master Detail Browser)	✓	✓	✓		✓	✓	✓
Reverse engineer object DDL including roles & permissions to recreate objects in a different database or schema	✓	✓	✓		✓	✓	✓
Compare schemas using live connections	✓	✓	✓		✓	✓	✓
Compare schemas efficiently with offline Toad snapshot 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 11g vs 12c)			✓		✓	✓	✓

Toad® for Oracle Editions 2018 R2 Functional Matrix

	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
Replay database workload to simulate production load levels in a test environment prior to deployment or implementation of database or platform changes					✓	✓	✓
Reverse engineer database schema into a physical data model, compare with another version and generate alter scripts**	✓	✓	✓		✓	✓	✓
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.**	✓	✓	✓		✓	✓	✓
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 configuration change scripts between two or more databases				✓		✓	✓
Compare and generate database configuration change scripts between two or more versions of offline database snapshot files				✓		✓	✓
Reporting	**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**
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		✓	✓		✓	✓	✓

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	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
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			✓		✓	✓	✓
Database Administration							
Control access to protected databases	✓	✓	✓	✓	✓	✓	✓
Ability to work with Oracle 12c multi-tenant databases both on-premise and in the cloud (Oracle and Amazon AWS).	✓	✓	✓	✓	✓	✓	✓
Ability to move Oracle 12c PDBs from on-premise to Oracle Database Cloud Service				✓		✓	✓
Ability to move schemas and data from on-premise to Oracle Database Cloud Service				✓		✓	✓
Browse multiple servers and databases, perform tasks and drill down to object level				✓		✓	✓
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	✓	✓	✓		✓	✓	✓

Performance Diagnostics and Tuning (Oracle instances)							
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 servers						✓	✓
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						✓	✓
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				✓		✓	✓

Toad® for Oracle Editions 2018 R2 Functional Matrix

Performance Diagnostics and Tuning and Change Management (Oracle RAC and Exadata)	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
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 Cache							✓

General	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	✓	✓	✓		✓	✓	✓

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	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
Direct access to product windows, menus, options, support portal and online articles/blogs on user community with single click using 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	✓	✓	✓		✓	✓	✓
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	✓	✓	✓		✓	✓	✓
Multi-database functionality	**	**	**		**		
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.	✓	✓	✓		✓	✓	✓
Database development team collaboration (requires addition of Toad Intelligence Central (Community Edition) server***)							
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 on different databases.	✓	✓	✓	✓	✓	✓	✓
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/download/toad-for-oracle/freeware

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.*