



### Toad® For Oracle v11.6 Functional Matrix

<i>Essential Functionality</i>	Toad for Oracle Base Edition	Toad for Oracle Professional Edition	Toad for Oracle Xpert Edition	Toad DB Admin Module (add-on)	Toad Development Suite for Oracle	Toad DBA Suite for Oracle	Toad DBA Suite for Oracle - RAC Edition	Toad DBA Suite for Oracle - Exadata Edition
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	✓	✓	✓		✓	✓	✓	✓
Unicode support	✓	✓	✓		✓	✓	✓	✓
<b><i>Development Functionality</i></b>								
Query Builder	✓	✓	✓		✓	✓	✓	✓
Integrated Debugger	✓	✓	✓		✓	✓	✓	✓
Automate traditional DBMS_OUTPUT debugging for maximum productivity	✓	✓	✓		✓	✓	✓	✓
Advanced ER Diagram with HTML reporting 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.)	✓	✓	✓		✓	✓	✓	✓



<i>Development Functionality</i>	Toad for Oracle Base Edition	Toad for Oracle Professional Edition	Toad for Oracle Xpert Edition	Toad DB Admin Module (add-on)	Toad Development Suite for Oracle	Toad DBA Suite for Oracle	Toad DBA Suite for Oracle - RAC Edition	Toad DBA Suite for Oracle - Exadata Edition
Convert embedded SQL to other programming languages (Delphi, C, C++, Java, Perl and VB etc.)	✓	✓	✓		✓	✓	✓	✓
Load and unload multiple Java source files	✓	✓	✓		✓	✓	✓	✓
Store PL/SQL execution parameters for re-use	✓	✓	✓		✓	✓	✓	✓
Browse Oracle Export file content and selectively extract objects and data	✓	✓	✓		✓	✓	✓	✓
Export Oracle Applications Express (APEX) objects	✓	✓	✓		✓	✓	✓	✓
Automatically identify unit tests out of synch with corresponding database source objects					✓			
Automate functional code test creation and unit test execution					✓			
<i>Team Collaboration</i>								
Share common standards and templates	✓	✓	✓		✓	✓	✓	✓
Integrates with 6 version control system providers	✓	✓	✓		✓	✓	✓	✓
Manage project assets	✓	✓	✓		✓	✓	✓	✓
Import and Export Code Quality Rules and Rules Sets for team sharing		✓	✓		✓	✓	✓	✓



<i>Code Analysis and SQL Tuning</i>	Toad for Oracle Base Edition	Toad for Oracle Professional Edition	Toad for Oracle Xpert Edition	Toad DB Admin Module (add-on)	Toad Development Suite for Oracle	Toad DBA Suite for Oracle	Toad DBA Suite for Oracle - RAC Edition	Toad DBA Suite for Oracle - Exadata Edition
PL/SQL profiling to detect code performance bottlenecks	✓	✓	✓		✓	✓	✓	✓
Visual SQL explain plan	✓	✓	✓		✓	✓	✓	✓
Trace user sessions and visually display Oracle Trace file output				✓		✓	✓	✓
Display session information and performance metrics	✓	✓	✓		✓	✓	✓	✓
Automate code analysis and validation against SQL and PL/SQL coding best practices		✓	✓		✓	✓	✓	✓
Automated, configurable, objective code review and analysis with reports, maximizing code quality		✓	✓		✓	✓	✓	✓
Enforce code quality validation prior to version control checkin		✓	✓		✓	✓	✓	✓
Identify coding best practice violations dynamically during editing.			✓		✓	✓	✓	✓
Identify problematic SQL directly from database objects, files and source code			✓		✓	✓	✓	✓
Automate SQL rewrites to locate the most-efficient SQL alternative (internal to Editor and full external optimizer)			✓		✓	✓	✓	✓
Optimize multiple SQL statements in batch in context with the source code and provide optimized code			✓		✓	✓	✓	✓



<i>Code Analysis and SQL Tuning</i>	Toad for Oracle Base Edition	Toad for Oracle Professional Edition	Toad for Oracle Xpert Edition	Toad DB Admin Module (add-on)	Toad Development Suite for Oracle	Toad DBA Suite for Oracle	Toad DBA Suite for Oracle - RAC Edition	Toad DBA Suite for Oracle - Exadata Edition
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	✓	✓	✓		✓	✓	✓	✓
Track real-time SQL executions on test or development servers to help locate issues or perform QA on client applications			✓		✓	✓	✓	✓
<i>Schema, Data and Change Management</i>								
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	✓	✓	✓		✓	✓	✓	✓
Display table data representing Parent-Child dependencies (Master Detail Browser)	✓	✓	✓		✓	✓	✓	✓



<i>Schema, Data and Change Management</i>	Toad for Oracle Base Edition	Toad for Oracle Professional Edition	Toad for Oracle Xpert Edition	Toad DB Admin Module (add-on)	Toad Development Suite for Oracle	Toad DBA Suite for Oracle	Toad DBA Suite for Oracle - RAC Edition	Toad DBA Suite for Oracle - Exadata Edition
Reverse engineer objects DDL including roles, permissions to recreate objects in a different db/schema	✓	✓	✓		✓	✓	✓	✓
Compare schemas using live connections or pre-saved offline snapshots	✓	✓	✓		✓	✓	✓	✓
Generate test data (randomized or real-world)		✓	✓		✓	✓	✓	✓
Oracle Import/Export utilities	✓	✓	✓		✓	✓	✓	✓
Analyze the impact of new indexes and index changes on the database			✓		✓	✓	✓	✓
Analyze SQL execution plan changes between different db environments (i.e. dev. vs. prod. or Oracle 9i vs. 10g)			✓		✓	✓	✓	✓
Replay scalable 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 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, etc	✓	✓	✓		✓	✓	✓	✓



<i>Schema, Data and Change Management</i>	Toad for Oracle Base Edition	Toad for Oracle Professional Edition	Toad for Oracle Xpert Edition	Toad DB Admin Module (add-on)	Toad Development Suite for Oracle	Toad DBA Suite for Oracle	Toad DBA Suite for Oracle - RAC Edition	Toad DBA Suite for Oracle - Exadata Edition
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>								
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 211 aspects of database performance, configuration (inc virtualized databases), schema, RAC and security vulnerabilities				✓		✓	✓	✓
Generate reports on potentially problematic SQL and optimization results			✓		✓	✓	✓	✓



<i>Database Administration</i>	Toad for Oracle Base Edition	Toad for Oracle Professional Edition	Toad for Oracle Xpert Edition	Toad DB Admin Module (add-on)	Toad Development Suite for Oracle	Toad DBA Suite for Oracle	Toad DBA Suite for Oracle - RAC Edition	Toad DBA Suite for Oracle - Exadata Edition
Control access to protected databases.	✓	✓	✓	✓	✓	✓	✓	✓
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\$ and SGA				✓		✓	✓	✓
Check database for security vulnerabilities and usage of Oracle OEM Options and Packs				✓		✓	✓	✓
Multi-database reporting and analysis dashboard for Oracle RMAN backups				□		✓	✓	✓
Execute one or more scripts against one or more databases	✓	✓	✓		✓	✓	✓	✓
<b><i>Performance Diagnostics and Tuning (Oracle instances)</i></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						✓	✓	✓



<i>Performance Diagnostics and Tuning (Oracle instances)</i>	Toad for Oracle Base Edition	Toad for Oracle Professional Edition	Toad for Oracle Xpert Edition	Toad DB Admin Module (add-on)	Toad Development Suite for Oracle	Toad DBA Suite for Oracle	Toad DBA Suite for Oracle - RAC Edition	Toad DBA Suite for Oracle - Exadata Edition
Preempt performance changes due to db environment changes such as indexing, migration and configuration changes			✓		✓	✓	✓	✓
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-based 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 potential future performance bottlenecks						✓	✓	✓
Perform 211 database health checks including Performance Configuration and storage				✓		✓	✓	✓
Perform 34 database health checks on Exadata servers				✓		✓	✓	✓
Collect data from Oracle StatsPack or AWR * and display advisories to correct potential performance issues				✓		✓	✓	✓
Manage space, repair chained rows and estimate space usage				✓		✓	✓	✓





<i>Performance Diagnostics and Tuning and Change Management (Oracle RAC)</i>	Toad for Oracle Base Edition	Toad for Oracle Professional Edition	Toad for Oracle Xpert Edition	Toad DB Admin Module (add-on)	Toad Development Suite for Oracle	Toad DBA Suite for Oracle	Toad DBA Suite for Oracle - RAC Edition	Toad DBA Suite for Oracle - Exadata Edition
Perform 211 database health checks including Oracle RAC configuration				✓		✓	✓	✓
Simple, highly visual alert-based point-and-click problem resolution for Oracle RAC							✓	✓
Visualize instance, cluster and interconnect levels for Oracle RAC performance diagnostics							✓	✓
Enables DBAs to 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 configuration						✓	✓	✓
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								✓



<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 Development Suite for Oracle	Toad DBA Suite for Oracle	Toad DBA Suite for Oracle - RAC Edition	Toad DBA Suite for Oracle - Exadata Edition
Read-only mode	✓	✓	✓		✓	✓	✓	✓
Restrict access to Toad features	✓	✓	✓		✓	✓	✓	✓
Direct access to feature-based videos	✓	✓	✓		✓	✓	✓	✓
Direct access to knowledge and educational content on Toad World and other resources using a search bar	✓	✓	✓		✓	✓	✓	✓
Context-sensitive PL/SQL knowledge base, including best practices, worked examples, error messages and more	✓	✓	✓		✓	✓	✓	✓
Share SQL Scripts and Files with the Toad World Community via a secure public repository	✓	✓	✓		✓	✓	✓	✓
Distribute and optionally enforce configurations and settings to group of users	✓	✓	✓		✓	✓	✓	✓
Remotely access and execute SQL scripts via a web application (MyToad)	✓	✓	✓		✓	✓	✓	✓
Synchronize Toad for Oracle User Files in the cloud with Dropbox (MyToad)	✓	✓	✓		✓	✓	✓	✓
Share, schedule and automate tasks across one or more databases with macro/action record and playback	✓	✓	✓		✓	✓	✓	✓
<b><i>Multi-database functionality</i></b>								
Query and report on multiple database platforms: Oracle, SQL Server, DB2, MySQL, Access, Teradata, Netezza, PostgreSQL, Sybase IQ, Sybase SQL Anywhere, Vertica and more from a single interface**					✓	✓	✓	✓



<i>Multi-database functionality</i>	Toad for Oracle Base Edition	Toad for Oracle Professional Edition	Toad for Oracle Xpert Edition	Toad DB Admin Module (add-on)	Toad Development Suite for Oracle	Toad DBA Suite for Oracle	Toad DBA Suite for Oracle - RAC Edition	Toad DBA Suite for Oracle - Exadata Edition
Integrated tools for query development including Query Builder and Editor**					✓	✓	✓	✓
Perform heterogeneous queries**					✓	✓	✓	✓
Import & Export utility**					✓	✓	✓	✓
ER Diagram & database browser**					✓	✓	✓	✓
Data compare and sync across different database platforms**					✓	✓	✓	✓
Graphical automation of workflow tasks for re-use and scheduling**					✓	✓	✓	✓
Pivot Tables, charting and comprehensive reporting**					✓	✓	✓	✓
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***	✓	✓	✓		✓	✓	✓	✓

□ Optional functionality. May access OEM packs. Disabled by default.

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