

Toad® for Oracle Editions 2020 R2 Functional Matrix



| Essential Functionality | Toad for Oracle Base Subscription | 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 |
|---|--|---|--------------------------------------|--------------------------------------|--|------------------------------------|--|
| Single user subscription billing (12-month term) | ✓ | | | | | | |
| 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 and Multibyte Character Set support | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Development Functionality | | | | | | | |
| Query Builder | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| Integrated Debugger (DBMS, JDWP and Script) | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| 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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| <i>Development Functionality</i> | Toad for Oracle Base Subscription | 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 |
|---|-----------------------------------|--------------------------------------|-------------------------------|-------------------------------|-----------------------------------|-----------------------------|---|
| 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 | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| Essential PL/SQL unit test creation and execution based on utPLSQL framework | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| Advanced PL/SQL unit test creation (inc sample library) and execution. Tests stored in repository for future regression testing or as part of a DevOps build automation process using Toad DevOps Toolkit . | | | | | ✓ | | |
| Automatically identify unit tests out of synch with corresponding database source objects | | | | | ✓ | | |
| <i>Team Collaboration</i> | | | | | | | |
| Share common standards and templates | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| Integrates with multiple version control system providers (inc Git, SVN, TFS & Mercurial) | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| Perform automated code review quality 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 | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |

Toad® for Oracle Editions 2020 R2 Functional Matrix



| <i>Code Quality Analysis and SQL Tuning</i> | Toad for Oracle Base Subscription | 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 |
|--|-----------------------------------|--------------------------------------|-------------------------------|-------------------------------|-----------------------------------|-----------------------------|---|
| PL/SQL profiling to detect code performance bottlenecks | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| Configurable 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 creation of SQL rewrites to find most-efficient SQL alternative (internal to Editor or via external advanced SQL Optimizer) | | | ✓ | | ✓ | ✓ | ✓ |
| Optimize multiple SQL statements in batch in context with the source code | | | ✓ | | ✓ | ✓ | ✓ |
| Oracle SQL tuning suggestions via the Oracle Tuning Advisor (via Tuning & Diagnostics Packs)* | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| Recommend indexing changes based on continuous database workload assessment | | | ✓ | | ✓ | ✓ | ✓ |
| Analyze impact of changes to database environment through index simulation | | | ✓ | | ✓ | ✓ | ✓ |
| SQL and PL/SQL production scalability testing | | | | | ✓ | ✓ | ✓ |
| Track real-time SQL executions from client applications to help locate issues or perform QA | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |

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| <i>Database, Schema and Data Change Management</i> | Toad for Oracle Base Subscription | 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 the use of Personally Identifiable Information (Sensitive Data Awareness) in the Editor for GDPR compliance | | ✓ | ✓ | | ✓ | ✓ | ✓ |
| Import/export data from data grid into/from Excel files and other formats | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| Compare and synch data across multiple tables | | | ✓ | | ✓ | ✓ | ✓ |
| Display table data representing Parent-Child dependencies (Master Detail Browser) | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| Replay captured database workloads in a test database to simulate production activity | | | | | ✓ | ✓ | ✓ |
| Compare schemas using live connections | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| Compare schemas from a fixed baseline using 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. | | ✓ | ✓ | | ✓ | ✓ | ✓ |
| Access Oracle Import/Export utilities | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| Oracle Spatial datatype support | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| Analyze the performance impact of new indexes, index changes and parameter changes on SQL | | | ✓ | | ✓ | ✓ | ✓ |
| Analyze the performance impact of moving SQL statements from one database to another | | | ✓ | | ✓ | ✓ | ✓ |
| Analyze SQL execution plan changes between database environments (i.e. dev. vs. prod. or Oracle 12c vs 19c) | | | ✓ | | ✓ | ✓ | ✓ |

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|---|-----------------------------------|--------------------------------------|-------------------------------|-------------------------------|-----------------------------------|-----------------------------|---|
| Reverse engineer object DDL including roles & permissions into a physical data model (via Toad Data Modeler - TDM) | | | | | | ✓ | ✓ |
| Reverse engineer database schema into a physical data model, compare with another version and generate alter scripts (TDM) | | | | | | ✓ | ✓ |
| Reverse engineer physical data model into a platform agnostic conceptual data model (TDM) | | | | | | ✓ | ✓ |
| Round-trip engineer from database or DDL between different database platforms such as Oracle, SQL Server, SAP Sybase, DB2, etc. (TDM) | | | | | | ✓ | ✓ |
| Compare and generate schema change scripts between two or more schema versions | | | ✓ | ✓ | ✓ | ✓ | ✓ |
| Compare and generate schema change scripts between two or more versions of Toad 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 Toad database snapshot files | | | | ✓ | | ✓ | ✓ |
| <i>Reporting</i> | Toad for Oracle Base Subscription | 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 | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |

Toad® for Oracle Editions 2020 R2 Functional Matrix

| Reporting | Toad for Oracle Base Subscription | 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 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 | | | ✓ | | ✓ | ✓ | ✓ |
| Database Administration | | | | | | | |
| Support for Oracle 19c multi-tenant databases on-premise and in the cloud (Oracle and Amazon AWS). | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Move Oracle 19c PDBs from on-premise to Oracle Database Cloud Service | | | | ✓ | | ✓ | ✓ |
| 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\$ and SGA | | | | ✓ | | ✓ | ✓ |
| Check database for usage of Oracle OEM Options and Management Packs* and produce reports | | | | ✓ | | ✓ | ✓ |
| Execute one or more scripts against one or more DBs | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |

Toad® for Oracle Editions 2020 R2 Functional Matrix

| <i>Performance Diagnostics and Tuning (Oracle instances)</i> | Toad for Oracle Base Subscription | 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 |
|--|-----------------------------------|--------------------------------------|-------------------------------|-------------------------------|-----------------------------------|-----------------------------|---|
| 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 (Spotlight) | | | | | | ✓ | ✓ |
| 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 | | | | | | ✓ | ✓ |
| 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 | | | | ✓ | | ✓ | ✓ |

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| 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 tests 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 (Spotlight) | | | | | | | ✓ |
| Sensitive Data Protection (Add-on Module)** | | | | | | | |
| Customizable classification rules library to assist with sensitive and personal data classification | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Sensitive data search for scanning across Oracle databases (metadata and data polling) | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

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| <i>Sensitive Data Protection (Add-on Module)**</i> | Toad for Oracle Base Subscription | 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 |
|---|-----------------------------------|--------------------------------------|-------------------------------|-------------------------------|-----------------------------------|-----------------------------|---|
| Sensitive data protection using native Oracle features for redaction, encryption, and audit to help achieve GDPR compliance (requires Oracle Advanced Security) | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Reports on schemas, tables and rows that contain sensitive or personal data. | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| General | | | | | | | |
| Security tested, following Secure Software Development Lifecycle with multi-point security controls to help minimize desktop vulnerabilities*** | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| 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 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 | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |

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

** Delivered through [Toad Sensitive Data Protection module](#).

*** For more information on Toad and SSDLC, please read this [Technical Brief](#).

Please Note: Quest Software 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.