

Customer Evaluation Guide – Toad® for Oracle® Editions 2018 R2

Oracle Database Development



Thank you for choosing to download a Toad for Oracle trial. This guide will enable you to evaluate Toad’s key technical features and business value. It can be used to evaluate the database development aspects of the Toad Editions to support your development lifecycle.


NOTE: Many recommended features/components have a hyperlink to a brief video clip or additional information.

| Activity | Recommended feature or component | Where to find it | Benefits | Available in these Toad for Oracle Editions | | | |
|---|-----------------------------------|---|---|---|-----|-------|-------------|
| | | | | Base | Pro | Xpert | Dev Edition |
| 1. Preparation and collaboration | | | <i>Features which facilitate the proper planning of projects and promote team-working by designing and understanding the database environment, creation and sharing of coding standards and other information. This will save time usually wasted through developers accessing incorrect objects and out-of-date files.</i> | | | | |
| Building and maintaining data models | Toad Data Modeler | Available for FREE USE from Toad version 10.1. Integrates with Toad through the ER Diagram. | Enables those who are required to design, modify or read data models to build and maintain physical and logical data models. This is a cross-platform tool which works with Oracle, SQL Server, DB2, MySQL, Sybase and more. | ✓ | ✓ | ✓ | ✓ |
| Manual deployment of coding standards and templates | Project Manager | Main Toolbar | Promotes team working through the sharing of project based assets and standards. Ensures everyone uses correct database objects, files and other data. | ✓ | ✓ | ✓ | ✓ |
| Viewing and maintaining database objects | ER Diagram | Main Toolbar Schema Browser Table Right-Click | Generates a graphical representation of schema tables and views to help users better understand object relationships and minimize coding and other errors. HTML and RTF reports can be generated and emailed. Diagrams can be reverse-engineered into Toad Data Modeler. | ✓ | ✓ | ✓ | ✓ |
| Viewing code – object dependencies | Code Road Map | Main Toolbar Schema Browser Table Right-Click | Enables a graphical representation of the interdependencies between PL/SQL code including Packages and objects like Tables & Views to help minimize coding and other errors. HTML and RTF reports can be generated and emailed. | ✓ | ✓ | ✓ | ✓ |

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| 1. Preparation and collaboration (cont) | | | <i>Features which facilitate the proper planning of a development project and promote team-working by designing and understanding the database environment, creation of coding standards and sharing of database objects, folders and files. This will save time usually wasted through developers accessing incorrect objects and out-of-date files, etc.</i> | Base | Pro | Xpert | Dev Edition |
| Define and store Functional/Unit Tests for PL/SQL | Code Tester for Oracle | Editor – PL/SQL Results tab – Create Unit Test (after code execution). Editor Toolbar (Launch Code Tester or Run Code Tester Tests) | Let's you create simple unit tests just by executing your PL/SQL code. If following Test Driven Development, Code Tester can be used to build more advanced tests. Simply describe expected code behavior (input parameters and expected outcomes) and Code Tester automatically builds and stores your test definition saving hours and ensuring code is thoroughly tested. Unit tests can be checked-in to source control using Team Coding (Section 2) | | | | ✓ |
| Standardization of PL/SQL code creation | Editor | Editor Toolbar – Create New PL/SQL Object -  | Using pre-defined templates, developers can create and share new code quicker and to the correct standard. Templates are customizable. | ✓ | ✓ | ✓ | ✓ |
| 2. Writing and maintaining code | | | <i>Features which provide significant productivity gains over conventional methods. Project specific code templates can be shared with other team members.</i> | Base | Pro | Xpert | Dev Edition |
| Writing code | Editor | Main Toolbar | Toad's multi-tabbed multi-functional editor makes it easy to create, view or edit SQL, SQL*Plus, PL/SQL, Text, or Hex in a single window. Predictive texting, spell checker and quick access to object information enhances productivity. Many editor right-click options such as formatting, code refactoring and auto SQL extraction from PL/SQL are available. | ✓ | ✓ | ✓ | ✓ |

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| | | | | Base | Pro | Xpert | Dev Edition |
| 2. Writing and maintaining code (cont) | | | <i>Features which provide significant productivity gains over conventional methods. Project specific code templates can be shared with other team members.</i> | | | | |
| Sourcing and sharing of re-usable code | Code Templates Code Snippets Make / Strip Code SQL Recall | Editor - <Ctrl> <Spacebar> View Menu Editor – Toolbar Editor Toolbar or F8 | Use of pre-written code constructs (cursor blocks, etc) will save developers time. A mini library of constructs (Oracle functions, etc) saving developer time looking up syntax. SQL code capture from application (Java, VB, etc) with automatic removal of non-SQL characters. Retrieve your SQL execution history quickly and copy statements back into the Editor for execution. Can also be shared with others. | ✓ | ✓ | ✓ | ✓ |
| Code management | Team Coding with Version Control Integration | Main menu - Team Coding | Enables developers to access schema objects from their VCS directly into the Toad Editor without manually checking out the files as a separate step. Simpler and more robust than conventional methods. Supported systems include MS TFS (inc 2017), Git, Perforce, Mercurial, Rational ClearCase, CVS, Subversion and many others. Now supports PL/SQL unit tests. The Team Coding repository can optionally be hosted on Toad Intelligence Central (Community Edition) to create a truly centralized repository. | ✓ | ✓ | ✓ | ✓ |
| Code management | Team Coding with Code Analysis integration (see Section 5) | Main menu - Team Coding | Enables development managers to set a minimum quality standard when developers check code into version control. Code will be rejected until coding violations are corrected. | | ✓ | ✓ | ✓ |
| Code management | Team Coding with Code Tester integration (see Section 4) | Main menu - Team Coding | Enables development managers to enforce a PL/SQL regression test cycle when developers check code into version control. Code will be rejected until bugs are eradicated. | | | | ✓ |
| Performing routine tasks | Automation Designer | Main toolbar Rerun Menu | Tasks executed in Toad such as code reviews (Toad Pro), unit test executions (Toad Dev Edition), export data and execute script, etc can be saved and built into a workflow which can, itself, be saved, shared with others, scheduled, called from the command line and executed at any time saving time, standardizing on processes and minimizing mistakes. | ✓ | ✓ | ✓ | ✓ |

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| 2. Writing and maintaining code (cont) | | | <i>Features which provide significant productivity gains over conventional methods. Project specific code templates can be shared with other team members.</i> | Base | Pro | Xpert | Dev Edition |
| Efficient SQL statement creation | Type Ahead Object Palette Query Builder | Editor (table <Ctrl> <.> and column <.> View Menu Main Toolbar Table Right-Click E/R Diagram Toolbar | Saves having to know object names, column names, code variables and parameters, etc before composing code. Tokens pop-up contextually based on the scope of what's being typed. Great for code maintenance. A slide-out panel from which tables, views, synonyms and columns can be dragged and dropped into the Editor or a graphical window. Great for Analysts, Managers and Developers, this feature will ensure the creation of a syntactically perfect SQL statement which can be tested and copied into the application. Already generated SQL queries can be reverse-engineered directly from the Editor. Also supports ANSI standard syntax. | ✓ | ✓ | ✓ | ✓ |
| 3. Data management | | | <i>Features which enable developers to get a far better understanding of relational data, produce reports and check for data inconsistencies.</i> | Base | Pro | Xpert | Dev Edition |
| Data manipulation | Any data grid in Toad. | Schema Browser, Editor, Master-Detail Browser, Query Builder and many more | Toad's data grids allow simple selection/de-selection of table columns, sorting and grouping of column headers and data to make location of the correct data even easier and faster. Data grids can have themes (colors, font styles, etc) applied to suit each user. Data can have basic calculations such as Sum, Avg, etc performed. Data belonging to a child table can also be viewed in situ with the parent table. | ✓ | ✓ | ✓ | ✓ |
| Data querying and reporting | Schema Browser Query Builder | Main Toolbar Main Toolbar Table Right-Click E/R Diagram Toolbar | Query Builder creates a syntactically perfect SQL statement which can be tested and copied into the application. Generated SQL queries can be reverse-engineered directly from the Editor. | ✓ | ✓ | ✓ | ✓ |

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| | | | | Base | Pro | Xpert | Dev Edition |
| 3. Data management (cont) | | | <i>Features which enable developers to get a far better understanding of relational data, produce reports and check for data inconsistencies.</i> | | | | |
| Data Generation | Data Generator | Schema Browser – Right Click table – Generate Data Create table ER Diagram – Generate Data | Allows random or real-world data to be generated for a single or group of tables. Referential integrity is respected if it exists and scripts can be saved for re-use. Data refreshes can be scheduled. There is an option to execute on the database server where massive quantities of data are required. Can be automated. | | ✓ | ✓ | ✓ |
| Data Import | Import Table Data | Database Menu – Import Table Data | Enables developers to import data from an external file such as Excel or Access or from another database via ODBC into an Oracle table. Operations can be saved as a Toad Action which can be easily replayed or scheduled providing increased productivity and fewer mistakes, using Automation Designer. | ✓ | ✓ | ✓ | ✓ |
| Data export | Export Dataset | Data Grid – Right-Click | Oracle table data can be exported into an external format such as Excel, Access or Insert/Merge scripts, etc or into another database via ODBC. Operations can be saved as a Toad Action which can be easily replayed or scheduled providing increased productivity and fewer mistakes, using Automation Designer. | ✓ | ✓ | ✓ | ✓ |
| Understanding data relationships | Master-Detail Browser | Database Menu - Report | Enables table data to be displayed in multiple panels representing Parent-Child dependencies. Also supports DB Links to other databases. | ✓ | ✓ | ✓ | ✓ |
| Creating data reports | Reports Manager | Any Data Grid – Right-Click Database Menu – Reports – Report Manager | A report wizard enables rapid creation of professional data reports. An advanced report designer lets developers customize the basic structure. Can be saved to HTML, PDF, email, etc. Many canned reports are included. | ✓ | ✓ | ✓ | ✓ |
| Comparing Data | Compare Data | Database Menu – Compare – Data | Enables data to be compared across multiple tables in a schema, between 2 databases (e.g. test and prod) and a synchronization script created to make the data in both schemas the same. | ✓ | ✓ | ✓ | ✓ |

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| 3. Data management (cont) | | | <i>Features which enable developers to get a far better understanding of relational data, produce reports and check for data inconsistencies.</i> | Base | Pro | Xpert | Dev Edition |
| Checking for duplicate data | Data Duplicates | Database Menu – Compare – Data Duplicates | Enables data to be checked for duplicate data across two tables by specific columns or entire row. Ensures table data is clean and accurate. | ✓ | ✓ | ✓ | ✓ |
| Access to Oracle’s Import and Export Utilities | Import/Export Utility Wizard | Database Menu – Import (Export) | Provides all Toad users to a simple interface to these popular Oracle utilities. | ✓ | ✓ | ✓ | ✓ |
| Access to Oracle’s Data Pump Utility | Data Pump Utility Wizard | Database Menu – Data Pump Import (D P Export) | Provides Toad users to a simple interface to this popular Oracle utility. | | ✓ | ✓ | ✓ |
| Reusing data from Oracle Export Utility files | Export File Browser | Database Menu – Export – Export File Browser | Toad can read a standard Oracle Export .dmp file and enable developers to selectively rebuild objects and extract exported data. This can save hours of time by obviating the need to import the entire file. | ✓ | ✓ | ✓ | ✓ |
| Sensitive Data Discovery Protection | Sensitive Data Awareness | Editor Schema Browser Alter Table | Ensures developers are notified if they make PL/SQL code or schema changes that access columns containing sensitive data. Important if companies are to comply with Data Privacy Regulations such as GDPR, HIPAA, etc. | | ✓ | ✓ | ✓ |
| 4. Code execution, testing and debugging | | | <i>Features which will greatly speed up and simplify the task of PL/SQL, SQL and SQL*Plus Code debugging and provide expert advice to resolve run-time errors in a timely manner</i> | Base | Pro | Xpert | Dev Edition |
| Define, store and execute functional/unit tests for PL/SQL | Code Tester for Oracle | Editor – PL/SQL Results tab – Create Unit Test Editor Toolbar (Launch Code Tester or Run Code Tester Tests) Schema Browser - Right-Click PL/SQL code (if test definition exists) | Let’s you create simple unit tests just by executing your PL/SQL code in the Toad Editor. Code Tester can be used to build more advanced tests. Simply describe expected code behavior (input parameters and expected outcomes) and Code Tester automatically builds and stores your test definition saving hours and ensuring code is thoroughly tested. Test Execution yields a very simple, visual dashboard showing exactly where a test may have failed, allowing the developer to correct the problem. Unit tests can be checked into source control via Team Coding (Section 2) so they remain with the code under test. | | | | ✓ |

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| 4. Code execution, testing and debugging (cont) | | | <i>Features which will greatly speed up and simplify the task of PL/SQL, SQL and SQL*Plus Code debugging and provide expert advice to resolve run-time errors in a timely manner</i> | Base | Pro | Xpert | Dev Edition |
| PL/SQL code debugging | Debugger | Editor Toolbar Debug Menu | Enables a better understanding of PL/SQL code behavior during execution, identification and resolution of bugs and data validation. Compound conditional breakpoints, modification of variable values on-the-fly and debugging of dependencies gives the developer enormous flexibility. Toad can also perform External debugging by attaching external programs like Oracle Forms, VB, etc. Even conventional DBMS_OUTPUT debugging becomes effortless as Toad can automatically inject output statements into the code. | ✓ | ✓ | ✓ | ✓ |
| Access to expertise | Toad World Jump Search | Main Toolbar - Toad World Main Toolbar | <p>Access to Toad World – a huge knowledge base for database professionals with information on Toad solutions, technical articles by industry experts, database platform knowledge, user community discussions and FREE, web-based Toad training courses. Registration can be performed straight from Toad.</p> <p>Direct searches can be performed against Toad World, Toad windows, Toad menus and options, Technical Support’s Knowledge Base or Toad’s Help by entering a search string in Toad Jump search. Error messages can be clicked on and you are forwarded to solutions on our support portal.</p> <p>Results are in context with the user’s problem, enabling a quicker solution to problems.</p> | ✓ | ✓ | ✓ | ✓ |

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| | | | | Base | Pro | Xpert | Dev Edition |
| 5. Coding best practices | | | <i>Features which enable an objective and consistent approach to the code review process and enable world-class PL/SQL best practices to be applied.</i> | | | | |
| Coding format standards | Formatter | Main Toolbar - Toad Options – Formatter | Ensures code is formatted to a controlled standard (Corporate or Project based). Templates can be customized and distributed to other developers. | ✓ | ✓ | ✓ | ✓ |
| Static Code Review of PL/SQL code based on pre-defined Rule Sets (customizable). Can be used by both individual developers and Team Leads/Managers | Code Analysis | Schema Browser or Project Manager – Right Click PL/SQL – Send to Code Analysis (code review dashboard) Database Menu - Diagnose Editor Toolbar | Code Analysis supports PL/SQL coding best practices covering Readability, Performance, Maintainability, Program Structure, Naming conventions, etc can be applied to ensure developers build top quality code. Includes code complexity, CRUD and management reporting. Code Analysis rules can be modified to suit different requirements. Code Analysis reports can be generated in a dashboard and sent by email. The results from Code Analysis reviews can also be published to Toad Intelligence Central server and time-based quality reports viewed via its web server. | | ✓ | ✓ | ✓ |
| Dynamic Code Review of PL/SQL code based on pre-defined Rule Sets (customizable) | Code Analysis | Editor, Schema Browser or Project Manager – Right Click PL/SQL – Send to Code Analysis (code review dashboard) Database Menu – Diagnose | Coding violations (shown as blue wavy lines) can be viewed in the Editor as the developer writes or maintains code. Violation explanation windows can be opened directly from the Editor to help the developer understand the violation and write better code in the future. | | ✓ | ✓ | ✓ |
| SQL scan of PL/SQL to identify tuning opportunities. Can be used by both individual developers and Team Leads/Managers | | Right Click PL/SQL – Send to Code Analysis (code review dashboard) Database Menu – Diagnose | SQL Scan will parse the PL/SQL code for embedded SQL, which often cause performance bottlenecks, and classify the SQL found to help determine whether it should be optimized. | | | ✓ | ✓ |

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| 6. Application performance | | | <i>Features which will enable a developer to analyze, identify, assess and make informed decisions on how to improve performance of SQL and PL/SQL code with reduced dependency on DBAs.</i> | Base | Pro | Xpert | Dev Edition |
| Identify PL/SQL code bottlenecks (Oracle versions up to 12cR2) | DBMS PL/SQL Profiler | Main Toolbar Database Menu | Quickly profile complex, underperforming PL/SQL code and identify the line of code contributing to poor performance. Also identifies code coverage. | ✓ | ✓ | ✓ | ✓ |
| Identify PL/SQL code bottlenecks (Oracle 11g and higher) | Oracle 11g Hierarchical Profiler | Main Toolbar Database Menu | Quickly and simply profile complex, underperforming PL/SQL code and identify the line of code contributing to poor performance | ✓ | ✓ | ✓ | ✓ |
| Identification and classification of under-performing SQL from application, Oracle SGA, PL/SQL, etc. | SQL Optimizer for Oracle – Scan SQL | Schema Browser (PL/SQL object) Editor Toolbar Query Builder Toolbar SGA Trace/Optimization Session Browser | SQL Optimizer scans for under-performing SQL statements in the application and classify them according to potential performance impact. | | | ✓ | ✓ |
| Automatic re-writing and optimization of SQL alternatives (simplified capability) | Auto Optimize SQL | Editor – Toolbar Schema Browser (PL/SQL object) Query Builder Toolbar SGA Trace/Optimization Session Browser | Auto Optimize SQL provides users who are less experienced with SQL the ability to simply optimize it with a couple of mouse clicks within the Editor window itself without launching the SQL Optimizer tool. Great for application developers less familiar with SQL. | | | ✓ | ✓ |
| Automatic re-writing and optimization of SQL alternatives (full capability) | SQL Optimizer for Oracle – Optimize SQL | Editor Toolbar Schema Browser (PL/SQL object) Query Builder Toolbar SGA Trace/Optimization Session Browser | SQL Optimizer will generate every possible re-write and quickly discard those of minimum benefit. This process will ensure every SQL alternative is considered – a process which would take an average developer many hours to perform. Optimization can be performed at the single SQL level or multiple SQLs or PL/SQL programs can be submitted for batch optimization saving hours of time. | | | ✓ | ✓ |

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| 6. Application performance (cont) | | | <i>Features which will enable a developer to analyze, identify, assess and make informed decisions on how to improve performance of SQL and PL/SQL code with reduced dependency on DBAs.</i> | Base | Pro | Xpert | Dev Edition |
| Analysis and recommendation of best Indexes | SQL Optimizer for Oracle – Optimize Indexes | Schema Browser (PL/SQL object) Editor Toolbar Query Builder Toolbar SGA Trace/Optimization Session Browser | Optimize Indexes is based on SQL execution workload. It continuously assesses the potential for performance improvement through indexing changes based on current database workload. | | | ✓ | ✓ |
| Tracking SQL executions from any Windows desktop application for fault finding, performance diagnostics or QA | SQL Tracker (Client) | Database Menu – Monitor | SQL Tracker (formerly SQL Monitor) tracks SQL statements as they leave any Windows desktop application and execute in Oracle. This enables the user to investigate any number of potential SQL-related issues which may be impacting the application. | ✓ | ✓ | ✓ | ✓ |
| Checking to see which Oracle sessions are consuming the most resources to help address possible performance problems | Top Session Finder | Database Menu - Monitor | Top Session Finder allows the user to specify a consumer unit to track then view those sessions which are consuming the most. A session can be selected and Session Browser launched to diagnose what the session is doing. | ✓ | ✓ | ✓ | ✓ |
| 7. Quality Assurance | | | <i>Features which validate whether the application is ready for production with PL/SQL code regression tested for bugs, reviewed to meet coding quality standards and SQL tested for scalability.</i> | Base | Pro | Xpert | Dev Edition |
| PL/SQL code regression testing | Code Tester for Oracle | Editor Toolbar (Run Code Tester Tests) Schema Browser - Right-Click PL/SQL code - Run Code Tester Tests (if test definition exists) | Unit test execution runs all test definitions for the project showing where code may have regressed since it was last unit tested, and yields a very simple, visual dashboard showing exactly where a test may have failed, allowing the developer to correct the problem before releasing to production. Unit tests can be imported from Oracle’s SQL Developer. | | | | ✓ |

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| 7. Quality Assurance (cont) | | | <i>Features which validate whether the application is ready for production with PL/SQL code regression tested for bugs, reviewed to meet coding quality standards and SQL tested for scalability.</i> | Base | Pro | Xpert | Dev Edition |
| Test for Production level scalability in Development or Test environment | Benchmark Factory for Databases | Schema Browser or Project Manager – Right Click PL/SQL – Test Performance SQL Optimizer Toolbar | It's impossible to see if tuned SQL will perform as well in production as it does in development. This feature simulates this scenario by scaling the SQL or PL/SQL execution to a user defined number of virtual users. | | | | ✓ |
| 8. Production deployment | | | <i>Features which enable development build DDL scripts for the DBAs to use for deployment into production</i> | Base | Pro | Xpert | Dev Edition |
| Generate deployment scripts based on schema comparison | Schema Compare and Sync NOTE: Sync is available in Xpert Edition and DB Admin Module | Database menu - Compare - Compare Schemas | Enables a source schema to be compared with one or more target schemas using live connections or pre-saved snapshots. NOTE: The generation of a synchronization script requires the Xpert Edition or DB Admin Module. | ✓ | ✓ | ✓ | ✓ |
| | Multi Schema Compare and Sync NOTE: Sync is available in Xpert Edition and DB Admin Module | Database menu – Compare – Multiple Schemas | Enables multiple schemas across two database environments (e.g. PROD and TEST) to be compared in a single step NOTE: The generation of a synchronization script requires the Xpert Edition or DB Admin Module. | ✓ | ✓ | ✓ | ✓ |
| Generate deployment scripts based on physical data model comparison | Toad Data Modeler | FREE USE with Toad version 10.1. File menu - Sync & Convert | Enables one physical model to be compared with another for synchronization of non-production environments or production deployments. | ✓ | ✓ | ✓ | ✓ |

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| 9. Cross-platform capabilities | | | <i>Additional tools, available with Toad which provide capabilities on platforms other than Oracle</i> | | | | |
| Capture database structures from non-Oracle databases and use in Oracle-based projects | Toad Data Modeler | Main toolbar - External Tools. TDM File Menu – Reverse Engineering | Connect to SQL Server, Access, DB2, MySQL, PostgreSQL and Sybase databases and reverse engineer objects into a physical data model. Convert this model into a database-agnostic conceptual data model and refine if necessary. Connect to target Oracle database and forward engineer to create new objects into target schema. HTML and RTF reports can be generated for distribution throughout the business. | ✓ | ✓ | ✓ | ✓ |
| Perform standard benchmark testing (TPC-E, TPC-H, etc) on various database platforms to ensure planned changes don't impact production performance | Benchmark Factory for Databases | BMF Main Menu | Benchmark Factory for Databases is a database replay and performance testing that stress tests your environment by simulating users and SQL transactions on the database. | | | | ✓ |
| 10. General | | | <i>Additional capabilities which extend user knowledge, provide even greater flexibility and control of Oracle development projects and provide support for agile development processes such as Continuous Integration.</i> | | | | |
| FREE Training – Toad Fundamentals (also available for Trial users) | Web-based training courses | Quest Support portal | Ensures users get the full benefit of the product through coverage of most of the key features of the Base product. | ✓ | ✓ | ✓ | ✓ |
| FREE Training – Advanced Development using Toad (also available for Trial users) | Web-based training courses | Quest Support portal | Learn how to get the most from the Toad Development Edition for Oracle so you can build high quality, bug-free, high performance applications. | ✓ | ✓ | ✓ | ✓ |
| Control access to protected databases | Connection window – Read Only connections | Main toolbar | Ensure developers can't inadvertently change data or database objects | ✓ | ✓ | ✓ | ✓ |
| Works with Oracle database versions from 10gR2 to 18c | Connection window | Main toolbar | Provide the necessary flexibility development teams need when using older versions of Oracle | ✓ | ✓ | ✓ | ✓ |
| Connect using TNS, Direct or LDAP | Connection window | Main toolbar | Provides the flexibility development teams need for different environments where connection methods may vary | ✓ | ✓ | ✓ | ✓ |