



Quest® Code Tester

for Oracle

Define, Generate, and Execute Unit Tests Automatically to Ensure Successful PL/SQL Applications

The National Institute of Standards and Technology (NIST) has estimated that software bugs cost the U.S. economy approximately \$60 billion each year. An NIST study found that “more than a third of these costs, or an estimated \$22.2 billion, could be eliminated by an improved testing infrastructure that enables earlier and more effective identification and removal of software defects.” The study is clear on this point: during the early stage of the development lifecycle, thorough and frequent testing of each unit of code is crucial to reduce logic errors across an application.

A Challenge for Developers

Unit testing is primarily the responsibility of the developers who write the code; however, it is often neglected because it is a difficult and time-consuming process when performed manually. In the Oracle world and the PL/SQL language, successful unit testing has been especially challenging due to the lack of tools and standardized approaches that help developers design, build and run tests. Essentially, programmers are faced with a tedious and error-prone process for writing tests and verifying outcomes.

The testing process must be frequently automated and tightly integrated into development to produce high-quality, fully verified code.

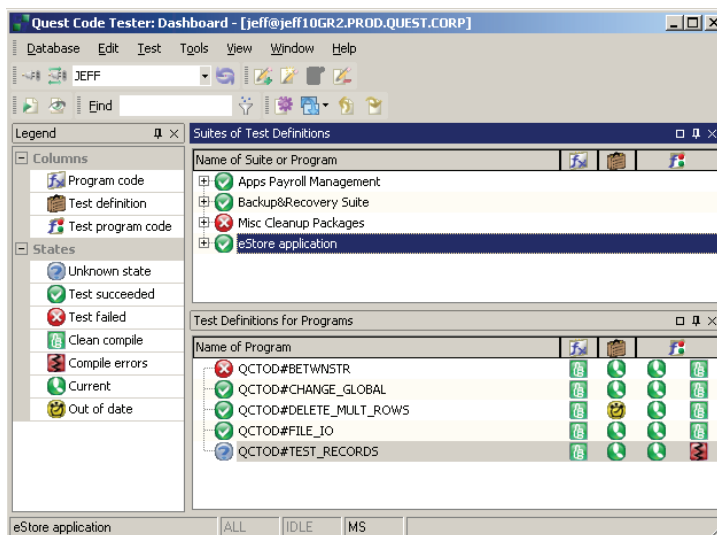
A Solution for Developers

Quest Code Tester for Oracle creates successful code for Oracle development groups. Rather than painstakingly writing test code, developers can generate it easily from user descriptions, then run tests with the press of a button. Success or failure is automatically computed and presented to users via an

“Quest Code Tester for Oracle is revolutionary in the way it generates test code for you. With other unit test platforms I’ve used, I had to write all of the test code myself. But Code Tester produces a lot of the complex logic that would take significantly more time for me to develop. This greatly accelerates the creation and usage of the unit tests.”

— Chris Taylor
Senior Developer
Fiserv ISS

- Automate the unit testing process to greatly increase the number of tests defined and running on the application code base
- Describe the required tests through an easy-to-use graphical interface and avoid writing test codes yourself
- Execute tests with the press of a button and visually review the automatically generated results
- Gain insights on test results and development process through an in-depth repository offering a rich reporting interface
- Create numerous test cases using pre-defined test data groups and quick-build scenarios



System Requirements:

Before installing Quest Code Tester for Oracle, make sure your system meets the following minimum hardware and software requirements:

Operating Systems:

- Microsoft® Windows® 2000, 2003, XP Professional

Platform:

- 133 MHz or higher Pentium-compatible CPU

Memory:

- 512 MB of RAM recommended

Disk Space:

- 25 MB of disk space for installation

Client Software:

- Oracle Client software must be installed and compatible with the database version being used

Database Versions:

- Oracle 9i Database Release 2,
Oracle Database 10g Release 1,
Oracle Database 10g Release 2,
Oracle Express Edition

easy-to-understand red light/green light display. The result is that Quest Code Tester for Oracle integrates PL/SQL testing directly into development as a repeatable, verifiable process.

With Quest Code Tester for Oracle, developers can:

- Define tests quickly and write only a minimum of specialized customization code for their tests
- Execute tests with the press of button, both for individual programs and for test suites
- Isolate and fix bugs rapidly when they appear in code.
- Become an expert tester in a short time and with little effort

With Quest Code Tester for Oracle, IT managers can:

- Gain an objective and comprehensive understanding of the application's quality
- Run reports that analyze the test status of both individual programs and entire application
- Meet deadlines for application rollouts with a greater confidence
- Reduce drastically the resources for maintaining applications once they move to production status

Quest Code Tester for Oracle Facilitates Testing

Test Builder – Defines and builds required tests through an easy-to-use graphical interface. The intuitive Test Builder constructs complex test scenarios by allowing developers to simply describe the tests they wish to perform and their expected outcomes. Test Builder helps users get started in the testing process by providing over 60 'Quick Build' scenarios. Organized by functional area, it can actually guide the developer to build better code by providing a list of pre-defined common tasks that are often required for that activity.

Test Dashboard – Provides the state of the code from a high-level view. This console allows developers and managers to run individual tests as well as suites of tests. It allows developers to instantly ascertain the status of all of their programs -- if the programs are valid, if the associated test case evaluations are true, and which units have problems. Test Dashboard enables users to group together related tests into a suite, thus making it easier to run those tests as needed.

Test Reporter – Offers insights on test results and the development process through a rich reporting interface. Through the interface, users can build reports on their test cases. Whether users choose to display information in PDF, HTML, RTF, Excel, or image format, the other members of the development team can quickly determine the level of code coverage and see which units pass or fail the existing set of test definitions.

Quest Code Tester for Oracle is an integral part of the database development best practices to ensure high-quality optimized code that is ready for your production environment.

About Quest Software, Inc.

Quest Software, Inc. delivers innovative products that help organizations get more performance and productivity from their applications, databases and Windows infrastructure. Through a deep expertise in IT operations and a continued focus on what works best, Quest helps more than 50,000 customers worldwide meet higher expectations for enterprise IT. Quest Software can be found in offices around the globe and at

www.quest.com.

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