

Quest[®] Code Tester for Oracle 2.5

Installation and Configuration Guide

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Installation and Configuration Guide . August 2012 Version 2.5

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Introduction to this Guide

This guide describes how to install and use Quest Code Tester for Oracle administrative features.

Additional Information

In addition to this guide, there are a number of options available for quickly finding the information you need.

Online Help

There are several ways to access online help topics.

| To... | Do This... |
|---|---|
| Display the table of contents for help topics | Select the content tab in an open help window. |
| Search for a specific help topic | Select the index tab in an open window. |
| Display the index for help topics | Select the index tab in an open help window. |
| Display help from a window or dialog | In the window or dialog, do one of the following: <ul style="list-style-type: none">• Click Help button• Press F1 |

Release Notes

To access the release notes, go to:

...\Quest Code Tester for Oracle\Doc\Quest Code Test Oracle Release Notes.htm

About Quest Software, Inc.

Quest Software (Nasdaq: QSFT) simplifies and reduces the cost of managing IT for more than 100,000 customers worldwide. Our innovative solutions make solving the toughest IT management problems easier, enabling customers to save time and money across physical, virtual and cloud environments. For more information about Quest solutions for administration and automation, data protection, development and optimization, identity and access management, migration and consolidation, and performance monitoring, go to www.quest.com.

Contacting Quest Software

| | |
|----------|---|
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| Web site | www.quest.com |

Refer to our Web site for regional and international office information.

Contacting Quest Support

Quest Support is available to customers who have a trial version of a Quest product or who have purchased a Quest product and have a valid maintenance contract. Quest Support provides unlimited 24x7 access to our Support Portal at <http://www.quest.com/support>.

From our Support Portal, you can do the following:

- Retrieve thousands of solutions from our Knowledge Base
- Download the latest releases and service packs
- Create, update, and review Support cases

View the *Global Support Guide* for a detailed explanation of support programs, online services, contact information, policies, and procedures. The guide is available at: <http://www.quest.com/support>.

Installation and Administration of Quest Code Tester for Oracle

Quest Code Tester for Oracle automates the process of testing PL/SQL programs, making it possible for you to identify bugs and verify program correctness in a fraction of the time it has taken previously. Rather than write (and maintain) thousands of lines of test code, PL/SQL programmers describe the expected behavior of their programs through a graphical interface. Code Tester then generates the required test code, and runs it whenever you request (either through the interface or via command line execution).

The following provides a summary of how Quest Code Tester works:

- You describe the expected behavior of your program through the Test Builder interface. In some cases, you will provide some customization logic, but for the most part, you simply point and click.
- Code Tester stores your test definitions in a repository (Oracle backend) so that you can easily manage them over time. This same repository also provides a means of documenting and analyzing the state of your code testing.
- Quest Code Tester generates a PL/SQL package that implements the tests you have described, automatically incorporating any customization logic you have provided.
- You run your test as needed (usually after each change you make to the program and in overnight builds) with the press of a button from the Test Dashboard. Quest Code Tester performs all required initialization and clean up.
- Quest Code Tester automatically verifies the results and displays them in an intuitive “red-light, green-light” Results Viewer.
- Create back ups of your test definitions and share them among developers and application groups through the import/export facility.

System Requirements

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

- **Platform:** 1.0 GHz x86 compatible CPU
- **Memory:** 512 MB of RAM recommended

- **Hard Disk Space:** 40 MB of disk space for installation
- **Operating System:** Microsoft®Windows® 2000, 2003, XP Professional, Vista.
- **Client Software:** Oracle Client software must be installed and compatible with the database version being used.
- **Database Server:** Oracle 9i Database Release 2 (9.2.0.6 or above), Oracle Database 10g, Oracle Express Edition, and Oracle Database 11g Release 1
- **Database Client:** Oracle SQL Net 9, 10 and 11, plus Instant Client. For Oracle 64-bit servers, 32-bit client is required.

Unsupported Datatypes

Quest Code Tester currently does not support (either completely or with limitations) the following datatypes:

- Timestamp with time zone
- Intervals
- Binary/raw datatypes

You will need to write your own custom code to initialize inputs of these types, and evaluate the outcome by constructing a Boolean expression that references arguments of these types.

Test Repository Installation and Access Options

Quest Code Tester for Oracle uses a backend repository to store tests and testing results. Each database being tested must have its own repository.

When you install Quest Code Tester, you must specify the Oracle schema into which the test repository will be placed. This repository (a set of tables) holds the definitions of the tests for your programs. This schema can be created specifically for the Code Tester repository, or those tables can be placed in an existing schema.

Before you install Quest Code Tester, you should decide where the repository and the test code generated by Quest Code Tester will be placed, in relation to the code being tested.

This section reviews the most common configurations and offers advice about how to install and use Quest Code Tester to match those configurations. In each configuration we explain how to use Quest Code Tester in these three different types of schemas:

| | |
|--------------------------|---|
| Quest Code Tester Schema | The owner of the Quest Code Tester repository. When you install Quest Code Tester, the database tables and packages that hold the repository are placed in this schema. |
|--------------------------|---|

| | |
|-------------|---|
| Test Schema | The schema from which testing is performed. In other words, you always connect to the Test Schema when you start up Quest Code Tester. This schema owns the test objects created by Quest Code Tester. |
| Code Schema | The schema that owns the code (or has execute authority on the code) being tested. To test this code, you must have execute authority from the Test Schema on the programs in the Code Schema. |

Installation Options

You can install and use Quest Code Tester in each of the following configurations.

- Shared repository
- Private repository
- Shared repository, Code Schema = Test Schema
- Single, shared test schema for all developers
- Separate test schema for each application

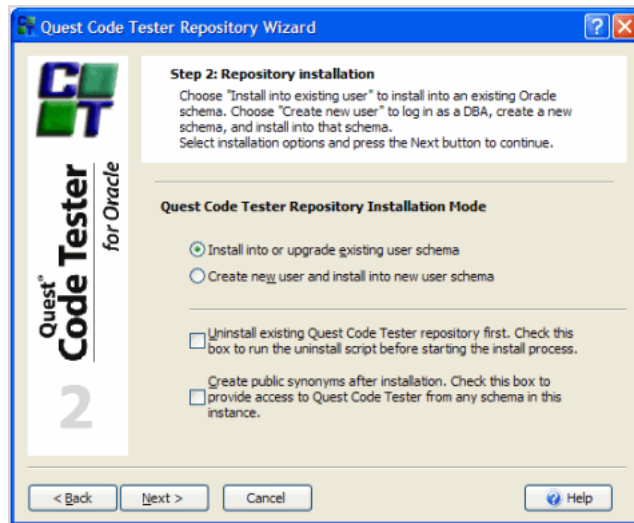
Installing a Shared Repository

There are two ways to create a shared repository:

- Public Synonyms
- Private Synonyms

Public Synonyms

Choose the "Create public synonyms..." option in the Installer. Quest Code Tester will then create public synonyms for the repository so that it can be accessed from any other schema in that database instance. This option is shown below.



Private Synonyms

In Quest Code Tester the Installer does not automatically create private synonyms. You must create them by running scripts manually in SQL*Plus or Toad or another execution environment.

When you install Quest Code Tester, do not check the "Create public synonyms..." option. Instead, install the repository into the specified schema without public synonyms. After the installation is complete, open your SQL execution environment and connect to the Quest Code Tester schema. You will then run two scripts, each of which are located in the Code subdirectory of Quest Code Tester's installation folder:

qu_grant_execute.sql: When running this SQL*Plus compatible script, you specify the name of the Test Schema from which you want to run Quest Code Tester. The EXECUTE privilege is then granted to you schema for all Quest Code Tester objects.

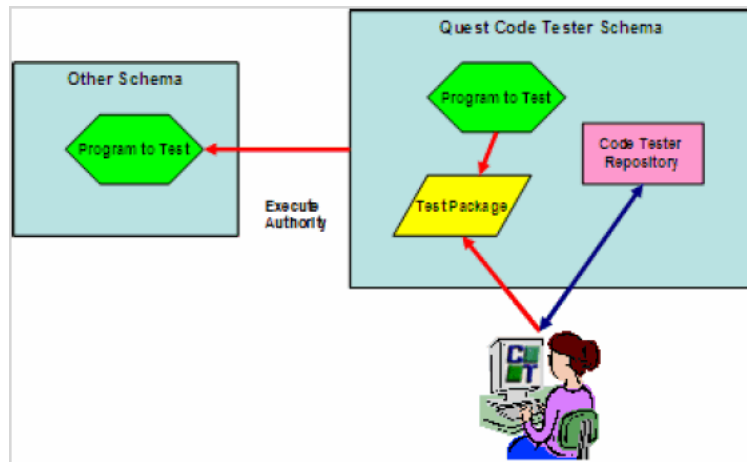
After running this script for each of the schemas from which you want to run Quest Code Tester, you will need to connect to each of these schemas in turn and run the following script:

qu_private_synonyms.sql: When running this SQL*Plus compatible script, you specify the name of the Quest Code Tester Schema (owner of the repository). Private synonyms are then created for all relevant Quest Code Tester objects.

Quest Code Tester can now be used from each of these individual Test Schemas.

Installing a Private Repository

This is the simplest installation. The schema in which the repository is installed is also the test schema and the code schema. You simply install Quest Code Tester into the application code schema. The repository of test information is private to this schema and cannot be seen, used, or run by any other schema.



Good for: Small projects, evaluating Quest Code Tester

How to do this: Install, but do not install public synonyms during the install and do not install any private synonyms afterwards.

To use Quest Code Tester: Connect to the schema in which Quest Code Tester was installed (and which also contains your code or has execute authority on the code you want to test).

Advantages

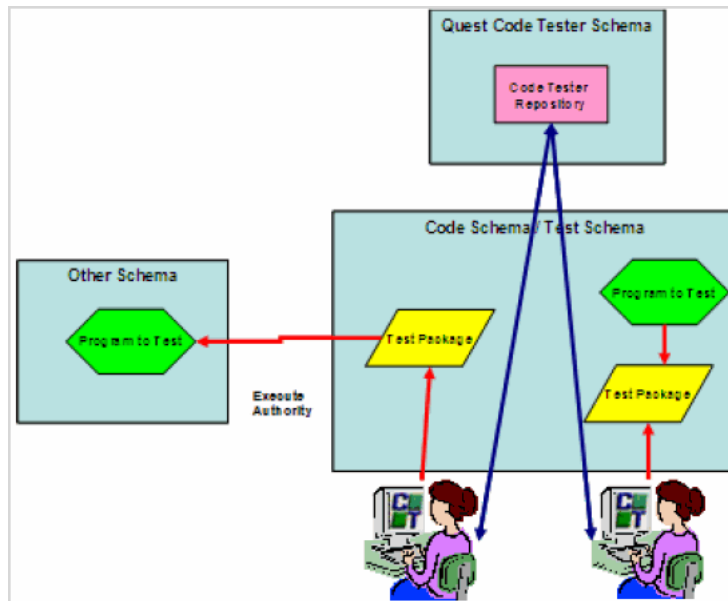
- You don't need any special privileges to install the product (as long as your code schema has the privileges to create procedures, tables, etc.).

Disadvantages

- The repository is not shared, so other members of your development team cannot see, change or run your test definitions.
- Multiple, private repositories consume more database resources.
- Lots of different kinds of code (source code, test code, Quest Code Tester repository) are all mixed in together, making it hard to manage your code base.

Installing a Shared Repository, Code Schema = Test Schema

You install Quest Code Tester into its own schema and make the repository and test engine available to the various Code Schema through public or private synonyms. You run Quest Code Tester from the Code Schema (owns the application code). In other words, the Test Schema is the same as the Code Schema.



Good for: Team development, in which test definitions need to be shared.

How to do this: Install with public synonyms or create private synonyms after installation is finished.

To use Quest Code Tester: Connect to your Code Schema and choose the programs in (or accessible from) that schema.

Advantages

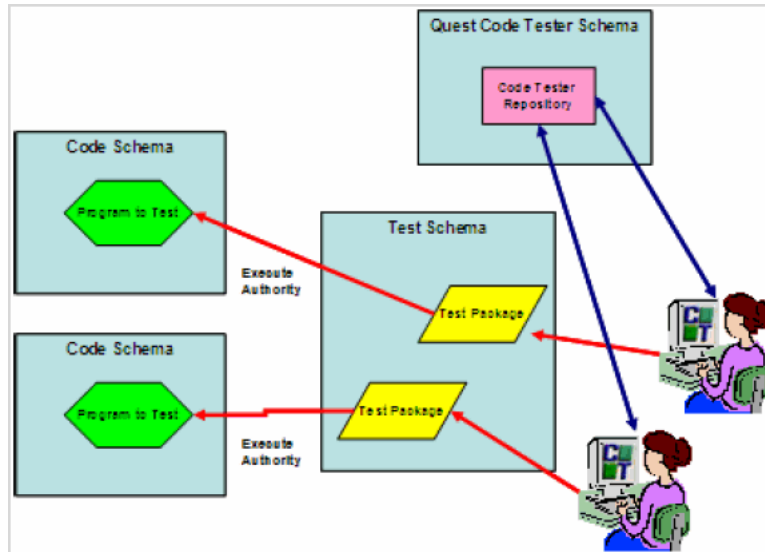
- All test definitions are stored in a single, shared repository.
- You don't have to set up a separate Test Schema from which testing is performed.

Disadvantages

- You need to be able to connect to a schema that creates a new user in Oracle.
- Need ability to create public synonyms (if that approach is chosen)
- All test objects are defined in the Code Schema to which they apply. Test objects are, therefore, mixed in with application code, which can be confusing.

Installing a Single Shared Test Schema for all Developers Repository

In this configuration, you take the extra step of creating a schema in which test code will be created for all applications on which members of the team are working.



Note Quest Code Tester does not create the Test Schema. You will need to do this yourself outside of the Quest Code Tester install, but it does not have to be created before you install Quest Code Tester.

Good for: Team development, in which the same team works on several different applications.

How to do this: Install with public or private synonyms, depending on whether you want the repository to be available to all schemas or a selected subset. [Click here for more details.](#)

To use Quest Code Tester: Connect to the shared Test Schema and choose the programs to test from the relevant Code Schema.

Advantages

- All test definitions are stored in a single, shared repository.
- Test objects are kept separate from application code
- Developers can easily move between test definitions of various applications

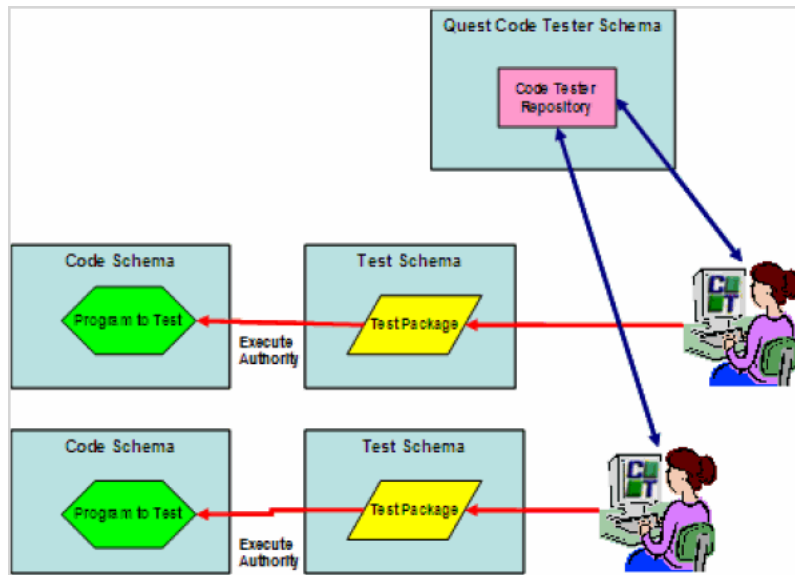
Disadvantages

Test code for multiple applications are mixed together, which can make it difficult to keep test code distinct and manageable in the Dashboard.

Installing a Separate Test Schema for Each Application Repository

In this configuration, you take the extra step of creating a separate schema in which test code will be created for each application on which members of the team are working.

Note Quest Code Tester does not create the Test Schemas. You will need to do this yourself outside of the Quest Code Tester install, but it does not have to be created before you install Quest Code Tester.



Good for: Team development, in which different members of the team work on different applications or subsystems.

How to do this: Install with public or private synonyms, depending on whether you want the repository to be available to all schemas or a selected subset.

To use Quest Code Tester: Connect to the Test Schema for your application and choose the programs to test from the relevant Code Schema.

Advantages

- All test definitions are stored in a single, shared repository.
- Test objects are kept separate from application code
- Developers working on one application cannot see or run tests for another application.

Disadvantages

- Must create the largest number of new schemas (for three applications, you will have one Quest Code Tester Schema and three Test Schemas). This results in more management effort and more database resources devoted to the schemas.

Schema Privileges

The schema in which you install Quest Code Tester must have the following privileges:

- ALTER SESSION
- CREATE PROCEDURE
- CREATE SEQUENCE
- CREATE SESSION
- CREATE SYNONYM

- CREATE TABLE
- CREATE TRIGGER
- CREATE VIEW
- CREATE TYPE

Note Some tests will require the creation of an object type and nested table type, so you may need to add a CREATE TYPE privilege to an account.

Please note the following:

- If requested, Quest Code Tester creates a schema with the necessary privileges as part of the installation process.
- We recommend that you install Quest Code Tester into its own schema, and create public synonyms so that all developers will be able to use Quest Code Tester and share their test definitions. This will also help you keep application code distinct from the Quest Code Tester code base. To do this, your schema must also have CREATE and DROP PUBLIC SYNONYM privileges.
- You may need additional privileges to test certain kinds of objects, such as files and cursor variables. If such a schema is not yet available, you will need to ask your DBA to connect to a SYSDBA account to create that schema (this can all be done from within the Quest Code Tester installer; see the release notes to get started).

Note If you have not previously installed utPLSQL, then the qu_utplsql_api package will be marked invalid. Quest Code Tester will not use this package unless utPLSQL has been installed and you want to run utPLSQL test packages.

Required Schema Packages for Code Tester Installation

The following Oracle packages are required to install Quest Code Tester for Oracle:

- SYS.DBMS_UTILITY
- SYS.DBMS_DESCRIBE
- SYS.DBMS_LOB
- SYS.DBMS_RANDOM
- SYS.DBMS_SQL
- XDB.DBMS_XMLDOM
- XDB.DBMS_XMLPARSER
- XDB.DBMS_XSLPROCESSOR

When installing Code Tester and these packages not are accessible, you will receive the following message:

“Quest Code Tester for Oracle cannot be installed successfully because this schema does not have access to the following packages:

- xxx
- xxx
- xxx

Please contact your DBA to obtain access to these packages.”

Obtain the required permissions and continue with the following installation procedures.

Installing Quest Code Tester for Oracle

To install Quest Code Tester for Oracle:

- 1 Double-click the Quest Code Tester for Oracle installer. The Quest Code Tester for Oracle setup wizard displays.
- 2 Click **Next**. The licenses agreement displays.
- 3 Read the licenses agreement and click the **I accept the terms in the license agreement** radio button.
- 4 Click **Next**. The Destination Folder dialog displays. Accept the default location and click **Next** or click **Change** to enter the desired location. After setting the desired folder, click **OK**, then click **Next**. The Install Database Respository dialog displays.
- 5 Click **Next** to install the database repository. Or, check the **Install database repository after install completes using the Repository Manager** check box if you wish to install the repository after the install completes.
- 6 Click **Next**. The Ready to Install dialog displays.
- 7 Click **Install**. The Installing Quest Code Tester for Oracle dialog displays.
- 8 After installation completes, the Install Wizard Complete dialog displays and provides the following options:
 - **Launch Quest Code Tester for Oracle:** Launches Quest Code Tester for Oracle.
 - **Show the Release Notes:** Displays the release notes.
- 9 Select **Launch Quest Code Tester for Oracle**. Code Tester launches.
- 10 Select **Help | Authorize**. The Authorization dialog displays.
- 11 Enter the required licenses information.
- 12 Click **OK**. The installation process is complete.

Silent Installation

Note For Windows 7 and 2008, you must open the "command prompt" as the administrator to get permission to run the install.

Quest Code Tester for Oracle provides silent installation for frontend client only installs.

The following provides procedures for command line silent installation:

The command line for silent installation is:

```
msiexec /i <QuestCodeTesterOracle_2.0.0.XXX.msi /qn INSTALLDIR="<Installation Directory>"
```

where:

`<QuestCodeTesterOracle_2.0.0.XXX.msi>` is name of QCTO msi installer;

If option `INSTALLDIR="<Installation Directory>"` is omitted then QCTO will be installed in the default directory:

`<Install Directory>` is a destination directory for QCTO installation.

Examples:

```
msiexec /i QuestCodeTesterOracle_2.0.0.443.msi /qn
```

The `QuestCodeTesterOracle_2.0.0.443.msi` located in current directory will be installed in the default directory: `c:\Program Files\Quest Software\Quest Code Tester for Oracle`.

```
msiexec /i "c:\My Files\QuestCodeTesterOracle_2.0.0.443.msi " /qn  
INSTALLDIR="c:\TEMP\MyWork
```

The `c:\My Files\QuestCodeTesterOracle_2.0.0.443.msi` will be installed in the directory `"c:\TEMP\My Work"`.

Silent Uninstall

The following command performs the silent uninstall for Quest Code Tester for Oracle.

```
msiexec /x QuestCodeTesterOracle_2.0.0.580.msi /qn
```

Quest Code Tester for Oracle Backend Administration

By accessing the Quest Code Tester for Oracle administration, you can also perform the following administrative operations in your Oracle instance (backend):

- Repository Management
- Install or Upgrade Test Repository
- Remove Test Repository

Repository Management

From Quest Code Tester for Oracle Repository Management you can:

- Rebuild the Quest Code Tester backend
- Provide instance-wide access to Quest Code Tester

- Restrict access to Quest Code Tester to a single schema

To access Repository Management

- 1 Click the Start button from the Windows task bar.
- 2 Select **All Programs | Quest Software | Quest Code Tester for Oracle | Quest Code Tester | Administration | Repository Management**. The Quest Code Tester Repository Wizard displays. The following options are provided:
 - Rebuild Quest Code Tester Backend
 - Provide instance-wide access to Quest Code Tester
 - Restrict access to Quest Code Tester to single schema

Note The following three procedures require that you begin from the Quest Code Tester Repository Wizard dialog.

Rebuilding the Quest Code Tester Backend

This option reinstalls all Quest Code Tester backend packages from disk.

To rebuild the Quest Code Tester backend

- 1 Click the Rebuild Quest Code Tester backend radio button.
- 2 Click **Next**. The directory and login information dialog displays.
- 3 Enter the User Name.
- 4 Enter the Password.
- 5 From the Database drop-down, select the desired database.
- 6 Click **Next**. The backend rebuilds. This will take several minutes. When the rebuilding process completes, the Finished dialog displays.
- 7 Click **Finish**.

Providing Instance-wide Access to Quest Code Tester

This option creates public synonyms for Quest Code Tester objects in the connected schema.

To provide Instance-wide access to Quest Code Tester

- 1 Click the Provide instance-wide access to Quest Code Tester radio button.
- 2 Click **Next**. The directory and login information dialog displays.
- 3 Enter the User Name.
- 4 Enter the Password.
- 5 From the Database drop-down, select the desired database.
- 6 Click **Next**.
 - a If no installation issues are detected, instance-wide access will be granted.

- b** If installation issues are detected, the Repository installation issues dialog displays. Review the issues displayed and click **Back** to select another schema, or fix the issue presented. Or, click **Ignore missing privileges** and continue by clicking **Next**.
- 7 Click **Finish** when the processing completes.

Restricting Access to Quest Code Tester to a Single Schema

This option removes public synonyms for Quest Code Tester objects from the connected schema.

To restrict access to Quest Code Tester

- 1 Click the Restrict access to Quest Code Tester to single schema radio button.
- 2 Click **Next**. The Provide directory and login information dialog displays.
- 3 Enter the User Name.
- 4 Enter the Password.
- 5 From the Database drop-down, select the desired database.
- 6 Click **Next**. The restrictions are applied.
- 7 When the processing completes, click **Finish**.

Installing or Upgrading an Existing Code Tester Repository

The upgrade process consists of running the installation script in an existing schema. You will do this by choosing the upgrade path offered in the installer. The install script will then automatically apply any necessary changes to your current installation to bring it up to the new version.

Note If you do not create synonyms, then you will only be able to access this install of Quest Code Tester from within the Quest Code Tester schema only (which will likely be the same schema as your application code).

From the Repository Manager you can:

- Install a new Quest Code Tester repository
- Upgrade an existing Quest Code Tester repository

Installing a New Quest Code Tester Repository

To install a new Quest Code Tester test repository

- 1 Click the Start button from the Windows task bar.
- 2 Select **All Programs | Quest Software | Quest Code Tester for Oracle | Administration | Install or Upgrade Test Repository**. The Quest Code Tester Repository Wizard displays. The following options are provided:
 - Install new Quest Code Tester repository

- Upgrade existing Quest Code Tester repository
- 3 Select **Install new Quest Code Tester repository**.
 - 4 Click **Next**. The Repository installation dialog displays and provides the following options:
 - Install into existing user schema
 - Create new user and install into new user schema
 - **Deinstall Quest Code Tester first**: Check this box to run the deinstall script before starting the install process
 - **Create public synonyms after installation**: Check this box to provide access to Quest Code Tester from any schema in this instance.
 - 5 Click **Next**. The Provide directory and login information dialog displays.
 - 6 Enter the User Name.
 - 7 Enter the Password.
 - 8 From the Database drop-down, select the desired database.
 - 9 Click **Next**. The Confirm dialog displays.
 - 10 Click **Install**.
 - 11 The Processing dialog displays and the schema installs. The Finished dialog displays.
 - 12 Click **Finish**. The Confirm dialog displays.
 - 13 Click **Yes** to install another the Quest Code Tester backend objects into another schema, or **Cancel** to close the wizard.

Note When all scripts have been run, Quest Code Tester will validate your installation and notify you of any problems. You may safely ignore any Oracle errors that appear within the scrolling feedback region of the installer, as long as you see a green message indicated that your installation has succeeded.

Upgrading an Existing Quest Code Tester Repository

To upgrade an existing Quest Code Tester repository from the administration menu

- 1 Click the Start button from the Windows task bar.
- 2 Select **All Programs | Quest Software | Quest Code Tester for Oracle | Administration | Install or Upgrade Test Repository**. The Quest Code Tester Repository Wizard displays. The following options are provided:
 - Install new Quest Code Tester repository
 - Upgrade existing Quest Code Tester repository
- 3 Select **Upgrade existing Quest Code Tester repository**.
- 4 Click **Next**. The directory and login dialog information displays.
- 5 Enter the required parameters.
- 6 Click **Next**. The Upgrade Quest Code Tester Repository dialog displays.

- 7 Click **Next**. The repository upgrades. When the upgrade completes, the Finished dialog displays.
- 8 Click **Finish**.

Removing A Test Repository

You can remove a test repository from Quest Code Tester if required.

To remove a repository

- 1 Click the **Start** button from the Windows task bar.
- 2 Select **All Programs | Quest Software | Quest Code Tester for Oracle | Administration | Remove Test Repository**. The Provide directory dialog displays.
- 3 Accept the default directory or navigate to the directory where Quest Code Tester for Oracle is installed.
- 4 Click **Next**. The Uninstall Repositories dialog displays. This window displays the names of any schemas into which Quest Code Tester repository was installed from this workstation. You will need to type in the password and then verify the version in that schema. If you do not see the schema from which you wish to uninstall Quest Code Tester, then see step 5.
- 5 Click **Add New Schema**. The Provide scheme information dialog displays. Fill in the schema name, password, and database name. Press **Next** to add this schema to the grid. Repeat as many times as necessary.
- 6 Click **Next**. The Confirm deinstallation dialog displays.
- 7 Select **Yes, I want to remove the selected repositories** check box.
- 8 Click **Next**. The repository uninstalls and the Finished dialog displays.
- 9 Click **Finish**.

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