



Oracle Database 11g: Real Application Testing



ora11g250-ver1

Instructor Resources From The Sideris Training Portal

2 Days

General Description

This Oracle 11g courseware training guide book will present some of the most advanced features available to database developers. In addition to receiving the print copy of this course book, all students will receive e-Learning modules.

Target Audience

The primary target audience for this course is:

- Oracle database administrators
- Oracle application developers
- Oracle web server administrators
- Oracle application server administrators
- Any others who must manage an embedded repository database using Oracle database technology will also find this information useful.

This course is also recommended for

- Technical consultants
- Support engineers
- Project managers
- Other technical management
- Other support personnel.

Prerequisites

The mandatory prerequisite for this course is experience administering an Oracle database. Those who lack such experience would be better served by first completing the curriculum for database administrators comprising the following Sideris course modules:

- ORACLE DATABASE 11G: ADMINISTRATION I
- ORACLE DATABASE 11G: ADMINISTRATION II

Pages
Duration

262
2 days

Instructor Resources

Instructor resources from the [Sideris Training Portal](#). There is no substitute for a subject matter expert. Sideris custom print courseware combined with our online resources make distance-learning and virtual training more effective than ever. Download the instructor resources for this courseware and see how your instructor presentations improve!

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Objectives

The purpose of this training course is to assist experienced Oracle database administrators and senior application developers to utilize the database features associated with change management to ensure proper application execution without disruption. Included among the subjects of this course are:

- Consider both the challenge and the necessity of changes to the systems infrastructure and how these can disrupt production applications.
- Review the goals of change management, change assurance and how these are implemented with Real Application Testing technology available with the Oracle 11g database.
- Learn how to perform the capture of a production database workload while not interfering with the applications or users involved.
- Learn how to replay the production workload on a test database configuration, providing a real-world test of how an actual application will function in an envisioned database configuration.
- Learn how to configure clients which will simulate the network interaction of real-world users in a test configuration.
- Perform a detailed analysis of application execution within proposed database configurations to assess whether the application performance will progress or regress as a result of the proposed change.
- Use the SQL Performance Analyzer tool to measure progression or regression of individual SQL statements under a proposed database configuration, providing a detailed level of change assurance before the change ever occurs.

Contents

CHANGE MANAGEMENT

- UNDERSTANDING THE APPLICATION ARCHITECTURE
- SYSTEMS INFRASTRUCTURE CHANGES
- CHANGE MANAGEMENT LIFECYCLE

- WORKLOAD CAPTURE USING THE API

CONFIGURE THE REPLAY DATABASE

- REQUIREMENTS OF A REPLAY DATABASE
- RMAN DUPLICATE

WORKLOAD CAPTURE

- PREPARING THE CAPTURE DATABASE
- WORKLOAD CAPTURE USING THE EM WIZARD

DATABASE REPLAY

- PREPROCESS CAPTURED WORKLOAD
- REPLAY PREREQUISITES

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- REPLAY WORKLOAD
- MONITOR THE REPLAY OPERATION

REPLAY ANALYSIS

- LAUNCH REPLAY ANALYSIS
- CONDUCT CONFIGURATION CHANGE ANALYSIS
- USE THE PL/SQL API

SQL PERFORMANCE ANALYZER

- ABOUT SQL PERFORMANCE ANALYSIS
- MANAGING SQL TUNING SETS
- SQL PERFORMANCE ANALYZER TASKS
- SQL PERFORMANCE ANALYSIS

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