



Course 290: Oracle Database 10g New Features Overview (2 days)

Course Description...

This course will give students an overview of various new features and enhancements included in Oracle Database 10g, the new release of the Oracle Database. The course includes the following topics:

- Manageability
- High availability
- Performance
- Development platform
- Business intelligence, and
- Data warehousing.

Learning Objectives are to gain an appreciation of:

- New common manageability infrastructure
- Storage and space enhancements
- New data pump architecture and its export and import clients
- Various performance enhancements
- SQL and PL/SQL enhancements
- Enhancements to some of the supplied packages
- Business intelligence and data warehousing enhancements
- Flashback enhancements
- Backup and recovery enhancements
- Other availability enhancements

Who should attend...

Anyone involved with the new Oracle Database 10g: DBAs, developers, and operation support staff. Those requiring a new detailed knowledge should consider taking Course 285: Oracle Database 10g New Features for DBAs.

Prerequisites...

Knowledge of Oracle9i Database is required.



Course Outline

Introduction and Overview

Course Objectives

Unit 1: Summary of the New Manageability Features

- Enterprise Manager
- Seminar Lesson Overview

Unit 2: Backup and Recovery Enhancements

- Simplified Recovery through Resetlogs
- Automated Disk-Based Backup and Recovery
- RMAN BACKUP Command Enhancements
- Incremental Backup Enhancements
- RMAN Script Enhancements

Unit 3: Other Availability Enhancements

- Data Guard Improvements
- Logical Standby Database Enhancements
- Online Redefinition Enhancements
- LogMiner Enhancements

Unit 4: Performance Enhancements

- Resource Manager Enhancements
- Wait Interface Improvements
- End-to-End Application Tuning
- Statistics Collection
- Proactive Performance Monitoring
- SQL Tuning Advisor

Unit 5: SQL, PL/SQL, and SQL*Plus

- SQL and PL/SQL Enhancements
- SQL*Plus Enhancements

Unit 6: PL/SQL Supplied Packages

- Workspace Manager Enhancements
- Manage Jobs with the Scheduler
- Other Supplied Packages Enhancements

Unit 7: Business Intelligence and Data Warehousing

- Materialized View Refresh Enhancements
- Query rewrite Enhancements
- Materialized View Tuning Advisor
- Asynchronous Change Data Capture

Unit 8: Common Infrastructure

- Automatic Workload Repository



- Server Generated Alerts
- Advisory Framework

Unit 9: Storage Enhancements

- The new SYSAUX Tablespace
- Bigfile Tablespaces
- Transportable Tablespace Enhancements
- Automatic Storage Management
- External Table Enhancements

Unit 10: Space Management

- Proactive Tablespace Monitoring
- Segment Management
- Undo Management
- Redo Logfile Size Advisor

Unit 11: Other Manageability Enhancements

- Data Pump Export and Import
- Transaction Manageability
- Automatic Shared Memory Management

Unit 12: Human Error Correction

- Flashback Database
- Flashback Drop
- Flashback Versions Query
- Flashback Transaction Query
- Flashback Table