

O1101 – Welcome to Oracle 11g

Course Objectives

This course is designed to introduce the new features and enhancements in Oracle 11g database to existing DBA's and those familiar with previous versions of Oracle's family of RDBMS products (7, 8, 8i, 9i, 10g).

This course is ideal for those that need a high level technical review of the new features offered in the latest release of the Oracle database.

Who Should Attend	Prerequisites	Duration
Database Administrators Support Engineer Data Warehouse Administrator Technical Consultant Project Managers	PC Fundamentals Programming experience Working knowledge of SQL	1 Day

Course Contents

Introduction

Oracle Database Innovation
 Enterprise Grid Computing
 Oracle Database 11g: Focus Areas
 Management Automation
 Oracle Database 11g: New Features Overview Seminar
 Oracle Database 11g: Change Management Overview Seminar

Managing Storage

Automatic Storage Management (ASM) Enhancements
 ASM Fast Mirror Resync: Overview
 Setting Up ASM Fast Mirror Resync
 ASM Preferred Mirror Read: Setup
 ASM Scalability & Performance Enhancements
 SYSASM & ASM Disk
 ASMCMD Extensions
 SecureFiles: Overview

High Availability: Using the Data Recovery Advisor and Flashback

Repairing Data Failures
 Data Recovery Advisor
 Listing Data Failures
 Advising on Repair
 Setting Corruption-Detection Parameters.
 Flashback Data Archive
 Creating a Flashback Data Archive: Example.
 Using Flashback Data Archive: Examples

High Availability: RMAN and Data Guard Enhancements

RMAN Enhancements in Oracle Database 11g
 Duplicating a Database
 Active Database Duplication: Selecting the Source
 RMAN DUPLICATE Command
 Creating a Standby Database with the DUPLICATE Command
 Parallel Backup and Restore for Very Large Files
 Using RMAN Multisection Backups
 Archival Database Backup

Security: New Features

Security Enhancements
 Secure Default Configuration
 Enabling the Built-in Password Complexity Checker
 Managing Default Audits
 Privileges Audited By Default
 Adjusting Security Settings
 Setting Security Parameters
 Setting Database Administrator Authentication

Intelligent Infrastructure

Automatic SQL Tuning in Oracle Database 11g
 Moving Window Baseline
 Baseline Templates
 Generating Baseline for a Single Time Period

Using EM to Quickly Configure Adaptive Thresholds
 Changes to Procedures and Views
 Automated Maintenance Tasks
 Default Maintenance Resource Manager Plan

Datawarehousing Enhancements

SQL Access Advisor in Oracle Database 11g
 Oracle Partitioning
 Partitioning Enhancements
 Interval Partitioning
 Interval Partitioning: Example
 Moving the Transition Point
 System Partitioning
 Composite Partitioning Enhancements

Additional Performance Enhancements

Statistic Preferences: Overview
 Partitioned Tables and Incremental Statistics in Oracle Database 11g
 Hash-Based Sampling for Column Statistics
 Multicolumn Statistics: Overview
 Expression Statistics: Overview
 Deferred Statistics Publishing: Overview
 Query Result Cache
 Setting Up the Query Result Cache