

KNOWLEDGE
POWER



Oracle Grid Infrastructure
Installation and Upgrade Enhancements
Oracle Restart
ASM Enhancements
Storage Enhancements
Data Warehouse and Partitioning Enhancements
Oracle SecureFiles
Security and Networking Enhancements
SQL Performance Analyzer

ORACLE 11g R2 **New Features**

SQL Plan Management
Database Replay
Automatic SQL Tuning
Intelligent Infrastructure Enhancements
Diagnosability Enhancements
SQL Monitoring
Performance Enhancements
Application Maintenance and Upgrade Enhancements
Backup and Recovery Enhancements
Flashback Technology, LogMiner, and Data Pump
Data Recovery Advisor



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ORACLE 11g R2 NEW FEATURES

The 11g Release 2 class will cover all new features included in Oracle 11g with more emphasis on Release 2 enhancement including Oracle Grid infrastructure and ASM technology changes.

Lesson Plan

DAY 1

Oracle Grid Infrastructure

- Installing Oracle Grid Infrastructure for a Standalone Server
- Creating an ASM Disk Group
- ASM Cluster File System
- ASM Dynamic Volume Manager
- ASM File System Snapshot

Installation and Upgrade Enhancements

- Installing Oracle Database 11g Release 2
- Oracle Database Upgrade Enhancements
- Online Patching
- Upgrading Your Time Zone File and Timestamp with Time Zone Data

Oracle Restart

- Controlling Oracle Restart
- Using the srvctl Utility
- Manually Adding Components to the Oracle Restart Configuration

ASM Enhancements

- Setting up ASM fast mirror resync
- Using ASM Scalability and Performance Enhancements
- ASM Disk Group Compatibility
- Using ASMCMD Extensions
- ASM File Access Control
- ASM Optimal Disk Placement

DAY 2

Storage Enhancements

- Using 4 KB-Sector Disks
- Using Table Compression
- Hybrid Columnar Compression
- SQL Access Advisor
- Segment Creation on Demand

Session Hours

5 days

Who are we?

Data Softech Incorporation is a dynamic and progressive organization committed to provide an affordable and flexible Database Administration, Solution, Consultation and Employee or Staff training to meet the client needs. We have been working with major Fortune 500 companies.

ORACLE 11g R2 NEW FEATURES



Trainers

Our database training experts come from various IT backgrounds and possess market-specific IT qualifications. These specialists have worked on various data management fields with leading database industries in Information Technology.

Tutorials

DSI custom designed tutorials and live training on key projects helps the learners gain a quality and accountable experience with various projects.



Data Warehouse and Partitioning Enhancements

- Preprocessing Data for ORACLE_LOADER Access Driver in External Tables
- Degree of Parallelism Enhancements
- In-Memory Parallel Query
- Partitioning Enhancements
- System-Managed Indexes for List Partitioning

Oracle SecureFiles

- Enabling SecureFiles Storage
- Creating SecureFiles
- Using SecureFile Compression
- Accessing SecureFiles Metadata
- Migrating to SecureFiles

Security and Networking Enhancements

- Secure Password Support
- Automatic Secure Configuration
- Managing Default Audits
- Setting Database Administrator Authentication
- Transparent Data Encryption
- Hardware Security Module
- Tablespace Master Key Re-Key
- Supporting IPv6 Address Notification

DAY 3

Application Maintenance and Upgrade Enhancements

- Online Redefinition Enhancements
- Creating and Using Invisible Indexes

Intelligent Infrastructure Enhancements

- Using New Automatic Workload Repository Views
- Creating AWR Baselines
- Defining Alert Thresholds Using Static Baseline
- Controlling Automatic Maintenance Tasks
- Fixed Policy CPU Resource Management
- Instance Caging
- Scheduler Enhancements

ORACLE 11g R2 NEW FEATURES



Training Benefits

Our certified and highly experienced trainers will help you equip with the IT knowledge and database management solutions that helps you independently assess and utilize the updated technology skills in any business-IT firm. We provide state-of-art infrastructure to incorporate our training practices.

Affordable Training

DSI custom designs the training addressing the clients, their staff or learners needs thus maximizing the benefit they gain from their training investment.



Diagnosability Enhancements

- Setting Up Automatic Diagnostic Repository
- ADRCI: The ADR Command-Line Tool
- Incident Packaging Service (IPS)
- Using the Enterprise Manager Support Workbench
- Invoking IPS Using ADRCI
- Running Health Checks Manually
- Using the SQL Repair Advisor

SQL Performance Analyzer

- SQL Performance Analyzer: Overview
- Using SQL Performance Analyzer
- Using Enterprise Manager to Access SQL Performance Analyzer
- SQL Performance Analyzer: PL/SQL Example
- SQL Performance Analyzer: Data Dictionary Views

SQL Plan Management

- SQL Plan Management: Overview
- Loading SQL Plan Baselines
- Using the MIGRATE_STORED_OUTLINE Functions
- Viewing Important Baseline SQL Plan Attributes
- Loading a SQL Plan Baseline Automatically
- Purging SQL Management Base Policy

Automatic SQL Tuning

- Automatic SQL Tuning in Oracle Database 11g
- Selecting Potential SQL Statements for Tuning
- Controlling the Automatic SQL Tuning Task
- Configuring Automatic SQL Tuning
- Using the PL/SQL Interface to Generate Reports

SQL Monitoring

- SQL Monitoring in Oracle Database 11g Release 2
- Viewing Session Details
- Viewing the SQL Monitoring Report

DAY 4

ORACLE 11g R2 NEW FEATURES



Training Courses

Oracle 11g New features
Oracle 11g R2 RAC Administration
Oracle 11g R2 Administration I
Oracle 11g R2 Administration II
Oracle 11g R1 RAC Administration
Oracle 11g/10g Performance tuning
Oracle 11g/10g Streams
Oracle 11g/10g Data Guard
Oracle 11g/10g Backup
Oracle 11g/10g Recovery using RMAN
Oracle Application server Administration I
Oracle Application server Administration II
Oracle 10g Sql Tuning
Oracle Apps 11i System Administration
Installations



Performance Enhancements

- Using the DBMS_ADDM Package
- New and Modified Views
- Enabling Automatic Memory Management
- Using New Statistic Preferences Features
- Locking Enhancements
- Adaptive Cursor Sharing
- Using Table Annotation to Control Result Caching

Database Replay

- Using Database Replay
- Database Replay System Architecture
- Database Replay Workflow in Enterprise Manager
- Database Replay PL/SQL Procedures
- Database Replay Data Dictionary Views

DAY 5

Backup and Recovery Enhancements

- Using New SET NEWNAME Clauses
- Optimized Backups
- Using New Settings for Binary Compression
- Enhancements to Database Duplication
- Creating Archival Backups
- TSPITR Enhancements and Modifications
- Creating and Using Virtual Private Catalogs
- Introduction to Oracle Secure Backup Cloud Module

Flashback Technology, LogMiner, and Data Pump

- Oracle Total Recall
- Flashback Transaction Backout
- Enterprise Manager LogMiner Interface
- Data Pump Legacy Mode

Data Recovery Advisor

- Assessing Data Failures
- Data Recovery Advisor RMAN Command-Line Interface
- Data Recovery Advisor Views
- Setting Parameters to Detect Corruption