KNOWLEDGE

POWER

Exploring the Oracle Database Architecture

Installing your Oracle Software

Creating an Oracle Database

Managing the Database Instance

Manage the ASM Instance

Configuring the Oracle Network Environment

Managing Database Storage Structures

ORACLE 11g Administration– I

Administering User Security

Managing Data Concurrency

Managing Undo Data

Implementing Oracle Database Auditing

Database Maintenance

Performance Management

Backup and Recovery Concepts

Performing Database Backups

Performing Database Recovery

Moving Data

Working with Support

ORACLE 11^g
DATABASE

Data Softech Inc

ORACLE 11g Administration- I

This training course is your first step towards success as an Oracle professional, it is designed to give you a firm foundation in basic database administration.

Lesson Plan

DAY 1

Exploring the Oracle Database Architecture

- Oracle Database Architecture Overview
- Oracle ASM Architecture Overview
- Description of Process Structure and Architecture
- Explanation of Memory structrues
- Logical and physical storage structures
- ASM storage components

Installing your Oracle Software

- Tasks of an Oracle Database Administrator
- Tools Used to Administer an Oracle Database
- Installation: System Requirements
- Oracle Universal Installer (OUI)
- Installing Oracle Grid Infrastructure
- Installing Oracle Database Software
- Silent Install

Creating an Oracle Database

- Plan the Database Design and Architecture
- Using the DBCA to Create a Database
- Password Management
- Creating a Database Design Template
- Using the DBCA to Delete a Database

Session Hours

3 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 Administration– I

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.

Managing the Database Instance

- Start and stop the Oracle database and components
- Use of Oracle Enterprise Manager (OEM)
- Access a database with SQLPlus
- Set and modify database installation parameters
- Describe the stages of database startup and shutdown
- Use the alert log and tracing concepts
- Access data dictionary and dynamic performance views

Manage the ASM Instance

- Set up initialization parameter files for ASM instance
- Start up and shut down ASM instances
- Administer ASM disk groups

Configuring the Oracle Network Environment

- Use Enterprise Manager to create and configure the Listener
- Enable Oracle Restart to monitor the listener
- Use tnsping to test Oracle Net connectivity
- Identify when to use shared servers and when to use dedicated servers

DAY 2

Managing Database Storage Structures

- Storage Structures - tablespace and datafiles
- How Table Data Is Stored
- Anatomy of a Database Block
- Space Management in Tablespaces
- Tablespaces in the Preconfigured Database
- Actions with Tablespaces
- Oracle Managed Files (OMF)

ORACLE 11g Administration- I

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.

Administering User Security

- Create and Manage Database User Accounts
- Predefined Administrative Accounts
- Benefits of Roles
- Predefined Roles
- Implementing Profiles

Managing Data Concurrency

- Data Concurrency - Manage data through SQL
- Enqueue Mechanism
- Monitor and Resolving Lock Conflicts
- Deadlocks

Managing Undo Data

- Data Manipulation Language (DML) and Undo generation
- Transactions and Undo Data
- Undo Data Versus Redo Data
- Configuring Undo Retention

Implementing Oracle Database Auditing

- Describe DBA responsibilities for security
- Enable standard database auditing
- Specify audit options
- Review audit information
- Maintain the audit trail

Database Maintenance

- Manage optimizer statistics
- Manage the Automatic Workload Repository (AWR)
- Use the Automatic Database Diagnostic Monitor (ADDM)
- Describe and use the advisory framework
- Set alert thresholds
- Use server-generated alerts
- Use automated tasks

ORACLE 11g Administration– I

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 Management
- Performance Monitoring
- Managing Memory Components
- Enabling Automatic Memory Management (AMM)
- Automatic Shared Memory Advisor
- Using Memory Advisors
- Dynamic Performance Statistics
- Troubleshooting and Tuning Views
- Invalid and Unusable Objects

DAY 3

Backup and Recovery Concepts
- Identify types of failure in Oracle DB (Statement Failure, User Error, Media Failure)
- Understanding Instance Recovery
- Phases of Instance Recovery
- Using the MTTR Advisor
- Media Failure
- Use and configure Archive Log Mode

Performing Database Backups
- Terminology - Types of Backup
- Oracle Secure Backup
- User-Managed Backup
- Using Recovery Manager (RMAN)
- Configuring Backup Settings
- Backing Up the Control File to a Trace File
- View the backup reports and monitoring the Flash Recovery Area

Performing Database Recovery
- Opening a Database
- Data Recovery Advisor
- Loss of a Control File
- Loss of a Redo Log File
- Use Data Recovery Advisor for recovery
- Data Failures - Listing Data Failures
- Data Recovery Advisor Views

ORACLE 11g Administration– I

DSI Activities

Database Management

Database Monitoring

Database Administration

Performance Tuning

Database Backup

Recovery Procedures

Quality Assessment

System Analysis

Database Upgrades

Database Patching

Cloning and Refresh

Instance Management

Security Administration

Schema Maintenance

Application Development

Server Hosting

Web Development

Domain Registration

E-business solutions

Business Process Outsourcing

Database Migration

Strategic IT Planning

Consultation and Advices

Moving Data

- Describe ways to move data (Directory objects, SQL*Loader, External Tables, exp, imp, Data Pump)
- Create and use directory objects
- Use SQL*Loader to move data
- Use external tables to move data
- Understanding architecture of Oracle Data Pump
- Use Data Pump export and import to move data

Working with Support

- Use the Enterprise Manager Support Workbench
- Work with Oracle Support
- Log service requests (SR)
- Manage patches