

O1020 - Oracle 10g DBA Fundamentals II

Course Objectives

This course is designed to give the Oracle 10g database administrator a firm foundation in backup and recovery tasks. The primary goal of the course is to give the DBA the skills and knowledge to set-up, maintain and troubleshoot an Oracle 10g backup and recovery scheme.

The enhancements and changes that have been introduced in 9i will be discussed during this course for the benefit of students to understand the full capability of the Oracle 10g RDBMS as well as for students who may be migrating plans from previous Oracle RDBMS versions.

Who Should Attend	Prerequisites	Duration
Oracle Database Administrators Oracle Systems Administrators Oracle Support Engineers	Oracle 10g DBA Part 1 Oracle SQL	5 Days

Course Contents

Backup and Recovery Overview

Understanding the structures and processes for backup and recovery.

Introduce the different methods for backup and recovery
Diagnose and troubleshoot database problems.
Understand Oracle Recovery Manager

Backup and Recovery

Recovery structures and processes
Backup and recovery configuration
Types of failure and troubleshooting
Complete recovery
Incomplete media recovery
Export and import utilities
Test Recovery
ALTER DATABASE END BACKUP

Oracle Recovery Manager

RMAN command line prompt
Recovery Manager architecture
Setting up Recovery Manager
Database space requirements and privileges
Creating and running backup and recovery scripts from RMAN
Using LIST and REPORT options from Recovery Manager
Crash Recovery workshop,

Recovery Manager: Tips and tricks
Persistent Parameters
Block Level recovery

Enterprise Manager Utilities

Catalog Maintenance Using Enterprise Manager
Creating an EM Backup
Configuration
LogMiner
Recovery Manager
Configurable Parameters

Standby Databases and Data Guard

Data Guard Features
Creating the Standby Database
Maintaining the Standby Database
Altering the Physical Structure
Failover without Data Guard
Failover Using Data Guard
Role Transitions Using Data Guard
Data Guard Protection Modes
Logical Standby Databases
Creating a Logical Standby Database
Logical Standby Failover and Switchover
Data Guard Manager Line Mode
Data Guard Manager Using EM

Flashback

Flashback Features
Enabling Flashback

Flashback Query
Additional Query Functions
Flashback Version Query
Flashback Transaction Query
Flashback Table
Flashback Drop (Recycle Bin)
Flashback Database

Network Architecture

Basic configuration
Oracle Net Manager
Listener administration
Using and configuring Oracle Names
Networking Wizard

Oracle Intelligent Agent

Installation
Configuration
Mixed SQL*Net and 9i
Networking
Troubleshooting

Connection Manager

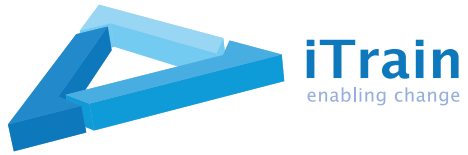
Concentrators
Multiplexing
Connection pooling

Shared Server

Using shared server
Configuration
Restrictions

Automatic Shared Memory Management

Manual Memory Allocation
Setting up ASMM
Non-dynamic SGA Buffers



COURSE OVERVIEWS

Scheduler

- Programs
- Schedules
- Jobs
- Job Classes
- Windows

Automated Storage Management

- Features
- ASM instances and database instances
- ASM Disk groups
- ASM Files