



Overview

This hands-on course lays a sound foundation for successfully starting a career in Relational Database Administration (RDBMS). Oracle Database Administration is a highly demanding job. As such the course encompasses some of the complex topics in computer science. This is not to scare the student but to educate the student of the preparation required to really understand and assimilate the topics. The profession comes with its own rewards.

The course syllabus is tuned towards attempting the Oracle DBA examinations, but further rigorous preparation will be required on the part of the student.

The total duration for this course including hands on work is 130 hours. The course is broken down into 4 parts. Students are encouraged to spend more time as per their needs. Depending on the audience in the course hours may be rescheduled for the sub-modules to suit the majority of the class.

Target Audience

Those interested in pursuing a career in Oracle Database Administration.

Prerequisites

At least 2 years of experience in the field of information technology in a technical role would be an ideal prerequisite for this course. Students who are pursuing other Information Technology courses and would like to make a career in Database Administration can also join this course and benefit.

Objective

Upon completion of this course, participants will be able to effectively participate in a team charged with the task of Oracle Database Administration.

People Potential Power



Oracle9i Database Administrator Certified Professional (4 exams)

Exam #1Z0-007 Introduction to Oracle9i: SQL (30 hrs)

Exam #1Z0-031 Oracle9i Database: Fundamentals I (30 hrs)

Exam #1Z0-032 Oracle9i Database: Fundamentals II (35 hrs)

Exam #1Z0-033 Oracle9i Database: Performance Tuning (35 hrs)

Introduction to Oracle9i: SQL

Course Topics: (30 hrs)

Introduction

Writing a Basic SQL Statement

Restricting and Sorting Data

Single Row Functions

Displaying Data from Multiple Tables

Writing Sub queries

Producing Readable Output with I SQL*Plus

Manipulating Data

Creating and Managing Tables

Including Constraints

Creating Views

Other Database Objects

SQL Workshop

Using Set Operators

Oracle9i Single Row Functions

Enhancements To The GROUP BY Clause

Advanced Sub Queries

Hierarchical Retrieval

Extensions To DDL And DML Statements

Writing Scripts To Generate Scripts

People Potential Power



Oracle9i Database Administration Fundamentals I

Course Topics: (30 hrs)

Oracle Architectural Components

Getting Started with the Oracle Server

Identifying the features of the Universal Installer

Defining the Optimal Flexible Architecture

Creating a database during installation

Creating a new database

Identifying database administrative users

Managing an Oracle Instance

Creating a Database

Using the Data Dictionary

Maintaining the Control File

Maintaining Redo Log Files

Managing Table spaces And Data Files

Describing Storage Hierarchy

Establishing The Difference Between System

And Non-System Table Spaces

Storage Structures And Relationships

Managing Undo Data

Managing Tables And Indexes

Maintaining Data Integrity

Managing Password Security And Resources

Managing Users

Oracle9i Database Administration Fundamentals II

Course Topics: (35 hrs)

Networking Overview

Basic Oracle Net Architecture

Basic Oracle Net Services Server-Side Configuration

Basic Oracle Net Services Client-Side Configuration

Usage and Configuration of the Oracle Shared Server

Backup and Recovery Overview

User- Managed Backups & RMAN Backups

User- Managed Complete Recovery

RMAN Complete Recovery

User- Managed Incomplete Recovery

RMAN Incomplete Recovery

RMAN Repository Maintenance

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Instance and Media Recovery Structures

RMAN Catalog Creation And Usage

Configuration of the Database Archiving Mode

Transporting Data Between Databases

Oracle Recovery Manager Overview and Configuration

Backup & Recovery & Networking Workshop

Oracle9i Database Performance Tuning

Course Topics: (35 hrs)

Overview of Oracle 9i Performance Tuning

Tuning Rollback Or UNDO Segments

Diagnostic and Tuning Tools

Monitoring & Detecting Lock Contention

Sizing the Shared Pool

Tuning Oracle Shared Server

Sizing the Buffer Cache

Application Tuning

Sizing other SGA Structures

Using Oracle Blocks Efficiently

Database Configuration and I/O Issues

SQL Statement Tuning

Optimize Sort Operations

Tuning The Operating System & Using

Diagnosing Contention For Latches

Resource Manager

Workshop

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