

1. Oracle 9i - Introduction



Course: Introduction to Oracle9i- SQL

Duration: 5 Weeks

Course Description

This course offers students an extensive introduction to data server technology. The class covers the concepts of both relational and object relational databases and the powerful SQL programming language. Students are taught to create and maintain database objects and to store, retrieve, and manipulate data. Students learn to retrieve data by using advanced techniques such as ROLLUP, CUBE, set operators, and hierarchical retrieval. They also learn to write SQL and SQL*Plus script files using the iSQL*Plus tool to generate report-like output. Demonstrations and hands-on practice reinforce the fundamental concepts.

Course Topics:

- Introduction
- Writing a Basic SQL Statement
- Restricting and Sorting Data
- Single Row Functions
- Displaying Data from Multiple Tables
- Writing Subqueries
- Producing Readable Output with iSQL*Plus
- Manipulating Data
- Creating and Managing Tables
- Including Constraints
- Creating Views
- Other Database Objects
- Using Set Operators
- Oracle9i Single Row Functions
- Enhancements to the GROUP BY Clause
- Advanced Subqueries
- Hierarchical Retrieval
- Extensions to DDL and DML Statements
- Writing Scripts to Generate Scripts

2. Oracle 9i – DBA Fundamentals I

Course: Oracle9i DBA Fundamentals I

Duration: 5 Weeks

Course Description

This course is designed to give the Oracle database administrator (DBA) a firm foundation in basic database administrative tasks. Students gain a thorough conceptual understanding of the Oracle database architecture, and how the architectural structures of an Oracle9i database work and interact with one another. Students also learn how to create an operational. This course is designed to give the Oracle database administrator (DBA) a firm foundation in basic database administrative

tasks. Students will gain a conceptual understanding of the Oracle9i database architecture and how the architectural structures work and interact with one another. Students will also learn how to create an operational database and properly manage the various structures in an effective and efficient manner in order to have a well-designed and operational database. In addition to learning the various commands needed to perform the DBA tasks, the course also provides students with instruction to perform the same DBA tasks using the Oracle Enterprise Manager tool. The instructor-led lesson topics are reinforced with structured hands-on practices.

This course is designed to prepare you for the corresponding Oracle Certified Associate exam: Exam #1Z0-031.

Course Topics:

- Oracle Architectural Components
- Getting Started with the Oracle Server
- Managing an Oracle Instance
- Creating a Database
- Using Data Dictionary and Dynamic Performance Views
- Maintaining the Control File
- Maintaining Redo Log Files
- Managing Tablespaces and Datafiles
- Storage Structures and Relationships
- Managing Undo Data
- Managing Tables
- Managing Indexes
- Maintaining Data Integrity
- Managing Password Security and Resources
- Managing Users
- Managing Privileges
- Managing Roles
- Auditing
- Loading Data into a Database
- Using Globalization Support

3. Oracle 9i – DBA Fundamentals II

Course: Oracle9i DBA Fundamentals II

Duration: 5 Weeks

Course Description

This course gives the Oracle database administrator (DBA) a firm foundation in fundamental database administrative tasks. Students learn about transporting for databases and the utilities used to perform these activities. Students are also introduced to networking concepts and configuration parameters, as well as how to solve some common network problems. In hands-on exercises, students configure network parameters so that database clients and tools can communicate with the Oracle database server. This course also addresses backup and recovery techniques, and examines various backup, failure, restore and recovery scenarios. Students also examine backup methodologies based on business requirements in a mission critical enterprise. Students use multiple strategies and Oracle Recovery Manager to perform backups, and restore and recovery operations. This course includes two interactive workshops that provide participants with the opportunity to walk through numerous real-world networking, backup, and recovery case studies.

This course is designed to prepare you for the corresponding Oracle Certified Professional exam: Exam #1Z0-032.

Course Topics

- Networking Overview
- Oracle Net Architecture
- Basic Oracle Net Server Side Configuration
- Naming Method Configuration
- Usage and Configuration of the Oracle

- Shared server
- Backup and Recovery Overview
- Instance and Media Recovery Structures
- Configuring the Database Archiving Mode
- Oracle Recovery Manager Overview
- User-Managed Backups
- RMAN Backups
- User-Managed Complete Recovery
- RMAN Complete Recovery
- RMAN Incomplete Recovery
- RMAN Maintenance
- Recovery Catalog and Maintenance
- Transporting Data Between Databases

3. Oracle 9i – Performance Tuning

Course: Oracle9i Database Performance Tuning

Duration: 5 Weeks

Course Description

This course will introduce participants to the importance of good initial database design, and the method used to tune a production Oracle9i database. The focus is on Database and Instance tuning rather than specific operating system performance issues. Participants will gain practical experience tuning an Oracle database. Using the available Oracle tools, such as Oracle Enterprise Manager (with the Diagnostics and Tuning Packs) participants also learn how to recognize, troubleshoot and resolve common performance related problems in administering an Oracle database. The class includes a one-day interactive workshop that provides participants with real-world experience including problem diagnosis and performance enhancement.

This course is designed to prepare you for the corresponding Oracle Certified Professional exam: Exam #1Z0-003.

Course Topics

- Overview of Oracle 9i Performance Tuning
- Diagnostic and Tuning Tools
- Sizing the Shared Pool
- Sizing the Buffer Cache
- Sizing other SGA Structures
- Database Configuration and I/O Issues
- Optimize Sort Operations
- Diagnosing Contention For Latches
- Tuning Rollback (or UNDO) Segments
- Monitoring and Detecting Lock Contention
- Tuning Oracle Shared Server
- Application Tuning
- Using Oracle Blocks Efficiently
- SQL Statement Tuning
- Tuning the Operating System and Using Resource Manager

Contacts



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