



Oralogic Education Systems

Next Generation IT Education Systems

Introduction:

Modern enterprises frequently run mission-critical databases containing upwards of several hundred gigabytes, and often several terabytes of data. These enterprises are challenged by the support and maintenance requirements of very large databases (VLDB), and must devise methods to meet those challenges. This chapter contains an overview of VLDB topics, with emphasis on partitioning as a key component of the VLDB strategy.

Oralogic Education Systems provide quality education in this key technology. We have most experienced professional who have extensive experience in managing and configuring Oracle Database software in most mission critical environments.

Course Contents:

Partitioning Concepts

- VLDB Manageability and Performance Constraints
- Manual Partitions Versus Partitioning
- Partitioned Tables and Indexes
- Table Versus Index Partitioning
- Partitioned Indexes
- Partitioning Strategies: Single-Level Partitioning
- Partitioning Strategies: Composite Partitioning
- Oracle Partitioning History

Implementing Partitioned Tables

- Table, Partition, and Segment Relations
- Creating Partitions with Enterprise Manager
- CREATE TABLE Statement with Partitioning
- Logical and Physical Attributes
- Partition Strategy Declaration: Single-Level Partitioning
- Specifying Partition Attributes
- Range Partitioning
- Interval Partitioning

Implementing Partitioned Indexes

- Partitioned Indexes

- Partitioned Index Attributes: Global or Local
- Partitioned Index Attributes: Prefixed or Nonprefixed
- Global Indexes
- Local Prefixed Indexes
- Local Nonprefixed Index
- Index Partitioning and Type Matrix
- Specifying an Index with Table Creation

Maintenance of Partitioned Tables and Indexes

- Maintenance: Overview
- Table and Index Interaction During Partition Maintenance
- Modifying the Logical Properties of Tables and Indexes
- Modifying Partition Properties on the Table
- Using the ALTER TABLE and ALTER INDEX Commands
- Renaming a Partition
- Partition Storage Changes
- Moving a Partition

Partitioning Administration and Usage

- Using Partitioned Tables
- Pruning Rules
- Static and Dynamic Pruning
- Pruning Tips
- Static Partition Pruning and Star Query
- Dynamic Partition Pruning and Star Query
- Collecting Statistics for Partitioned Objects
- ANALYZE and Partitioned Objects

Partitioning and Workload Types

- Partitioning in Data Warehouses
- Using Materialized Views for Summary Management
- Partitioning and Materialized Views
- Maintaining Partitions of a Materialized View
- Partition Change Tracking (PCT) Refresh
- PCT Refresh: Requirements
- When Is PCT Refresh Used?
- Partition Key or Partition Marker?

Oracle Database Cloud Service: Overview

- Database as a Service Architecture, Features and Tooling
- Software Editions: Included Database Options and Management Packs

- Accessing the Oracle Database Cloud Service Console & Automated Database Provisioning
- Managing the Compute Node Associated With a Database Deployment
- Managing Network Access to Database as a Service & Scaling a Database Deployment
- Patching Database as a Service & Using the Oracle Database Cloud Service Console to Manage Patches
- Migrating from On-premises to Oracle Cloud Database
- Gather Information for Migration

Other Information:

Course #	DBAVLD01
Instructor	Industry Professional
Course	Oracle VLDB & Implement Partitioning
Version	Oracle11g, 12c
Duration	2 Weeks
Class Duration	3 Session a week, 2 hours
Medium	In-Class, Online