CREDO SYSTEMZ
Simplifying IT

PERFORMANCE TUNING TRAINING

Section 1 : Performance Tuning Overview

- Introduction to Perfomance Tuning Features and tools
- How to set the performance goals?
- Basic understanding of Oracle Architecture
- Structure of Logical storages
- Differences of logical and Physical Memory

Section 2 : Performance Designing and Developing

- Main Phases of Data Design
- Concepts of Data Model
- System Architecture
- Understand the Online transaction process
- Performance tuning for Multi-purpose application

Section 3 : Optimizing SQL

- What is physical retrieval of data?
- Full Table Scan vs. Index scan performance
- Overview of Performance Analytic Tools
- Explain the Plan
- SQL Tracing Facility
- Tuning using Auto tracing
- Join Procedures
- Sort-Merge Join
- Hash Joins
- Nested Loops

Section 4 : Indexes

- What is Indexes?
- Understanding B-Tree indexes and how they impact the performance?
- Using Bitmap index to tune the Oracle performance
- Comparing Bitmap and B-Tree indexes
- What is the use of Reverse key index?

- ➢ When to use index organised tables?
- ➢ Invisible indexes
- ➢ How to create and monitor indexes

Section 5 : Metrics, Baseline and Alerts

- ➢ Metrics, Alerts and Baseline Concepts
- ➢ Limitation of Base Statistics tool
- ➢ Advantage of Metrics
- ➢ How to use Database control and setting the thresholds?
- ➢ Histogram
- ➢ Creating and Testing the Metrics, Alert and views

Section 6 : Automatic SQL Tuning

- ➢ An Overview of Optimizer modes and its types
- ➢ SQL Tuning Advisor
- ➢ Using Dynamic Performance views

Section 7 : SQL Performance Analyzer

- ➢ Explain the SQL Performance Analyzer process and benefits
- ➢ How to use SQL Performance Analyzer

Section 8 : Tuning the Shared Pool

- ➢ Understand the shared pool architecture and operations
- ➢ The Library Cache & Latch and Mutex concepts
- ➢ Overview of Diagnostic tools
- ➢ Comparison of Soft Parse and Hard Parse
- ➢ SQL Query Result cache and Data Dictionary cache
- ➢ Tuning the large pool

Section 9 : Tuning the Buffer Cache

- ➢ An Overview of Oracle database architecture – Buffer cache
- ➢ What is Database Buffers?
- ➢ Understand the Buffer hash table for lookups
- ➢ Buffer Cache Performance Symptoms and Solutions

Section 10 : Using AWR-Based Tool

- ➢ Introduction to Automatic Maintenance Tasks
- ➢ Monitoring the ADDM Performance
- ➢ Enhanced Automatic Workload Repository Views
- ➢ Emergency Monitoring

Section 11 : Using Statspack

➢ Installation of Statspack
➢ Creating Statspack snapshots
➢ How to generate the Statspack reports?
➢ Statspack report Analysis

Contact Info

+91 9884412301 | +91 9884312236

info@credosystemz.com

Know more about PERFORMANCE TUNING TRAINING

New # 30, Old # 16A, Third Main Road, Rajalakshmi Nagar, Velachery, Chennai (Opp. to MuruganKalyanaMandapam)

BOOK A FREE DEMO

CREDO SYSTEMZ