

Mastering Oracle Database 23ai

Architecture, Administration, and Certification Readiness

Program Overview

This comprehensive 8 or 10-week training program provides a deep dive into Oracle Database 23ai. Participants will learn how to administer, monitor, and secure Oracle databases while preparing for the Oracle Certified Professional (OCP) certification. Each week focuses on key areas of database administration, performance tuning, backup strategies, and advanced Oracle 23ai features.

Week 1 - Introduction to Oracle 23ai & Architecture Overview

- Oracle 23ai innovations
- CDB, PDB, ASM, Non-CDB deployment
- SGA, PGA, background processes
- Data dictionary concepts

Week 2 - Installation & Network Configuration

- Oracle installation scenarios
- CDB and PDB creation using DBCA
- Listener, TNS, and Oracle Net
- Using SQL*Plus, SQL Developer, RMAN

Week 3 - Storage Structures & Tablespace Management

- Datafiles, segments, extents
- Temporary, undo tablespaces
- ASM architecture (optional)
- Oracle Managed Files (OMF)

Week 4 - User Management & Security

- Users, roles, privileges
- Profiles and password policies
- Auditing and Fine-Grained Auditing

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Week 5 - Backup & Recovery with RMAN

- Full and incremental backups
- RMAN scripting
- Restore/recovery scenarios
- PITR and duplication

Week 6 - Performance Monitoring & Tuning

- Wait events, AWR, ASH
- SQL tuning tools
- Advisors and SQL Plan Management

Week 7 - Multitenant Architecture & Resource Management

- PDB lifecycle
- Local vs. common users
- Resource plans

Week 8 - AI Features & OCP Exam Preparation

- AI-based features in 23ai
- Vector search and explain with LLM
- OCP exam format and strategies