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Oracle DBA (19c/23ai/26ai) Training Curriculum Online by Certified Consultant

Module 1: Introduction to Oracle Database

- Database Fundamentals
- RDBMS Concepts
- Oracle Database Editions
- Oracle Database 19c Overview
- Oracle AI Database 23ai Overview
- Oracle AI Database 26ai Overview
- New Features in 23ai & 26ai
- Oracle Database Architecture
- Oracle Database Components
- Oracle Database Editions & Licensing
- Oracle Cloud Database Overview

Module 2: Oracle Architecture

Physical Architecture

- Data Files
- Control Files
- Redo Log Files
- Temp Files
- Parameter Files (SPFILE & PFILE)
- Password File
- Archive Logs
- Flashback Logs

Logical Architecture

- Database
- Tablespace
- Segment
- Extent
- Block



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- Row

Memory Architecture

- SGA
- PGA
- Shared Pool
- Database Buffer Cache
- Redo Log Buffer
- Large Pool
- Java Pool
- Streams Pool

Process Architecture

- PMON
- SMON
- DBWn
- LGWR
- CKPT
- ARCn
- MMON
- RECO

Module 3: Oracle Installation

- Oracle Installation
- Silent Installation
- Response Files
- Oracle Home
- Oracle Inventory
- OPatch
- Oracle Universal Installer (OUI)
- Software Updates
- Database Creation Assistant (DBCA)
- Database Upgrade Assistant (DBUA)

Module 4: Oracle Database Creation

- Create Database using DBCA
- Manual Database Creation



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- Database Parameters
- Initialization Parameters
- SPFILE Management
- Startup & Shutdown Modes
- NOMOUNT
- MOUNT
- OPEN

Module 5: Multitenant Architecture (19c+)

- CDB
- PDB
- Seed Database
- Create PDB
- Clone PDB
- Plug & Unplug PDB
- Snapshot Copy PDB
- PDB Refresh
- PDB Relocation
- Local & Common Users
- PDB Lockdown Profiles

Module 6: Oracle Net Services

- Listener
- TNS
- SQL*Net
- Listener Configuration
- Service Registration
- Easy Connect
- Oracle Net Manager
- Troubleshooting Connectivity

Module 7: Storage Administration

- Tablespaces
- Bigfile Tablespaces
- Smallfile Tablespaces
- Datafiles
- Autoextend



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- Undo Tablespaces
- Temporary Tablespaces
- Resumable Space Allocation
- Compression

Module 8: User Administration

- User Creation
- Profiles
- Password Policies
- Roles
- System Privileges
- Object Privileges
- Resource Limits
- Proxy Users
- Authentication Methods

Module 9: Security Administration

- Unified Auditing
- Fine-Grained Auditing
- Database Vault Overview
- Transparent Data Encryption (TDE)
- Wallet Management
- Encryption
- Data Redaction
- Oracle Label Security
- Network Encryption

Module 10: Backup & Recovery (RMAN)

- RMAN Architecture
- Full Backup
- Incremental Backup
- Image Copy
- Backup Sets
- Archive Log Backup
- Recovery Catalog
- Restore Database
- Recover Database



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- Block Recovery
- Tablespace Recovery
- Point-in-Time Recovery (PITR)
- Flashback Database
- Flashback Table
- Flashback Query
- Guaranteed Restore Points

Module 11: Data Pump & Data Migration

- EXPDP
- IMPDP
- Full Export
- Schema Export
- Table Export
- Network Import
- Transportable Tablespaces
- External Tables
- SQL Loader

Module 12: Performance Tuning

- AWR
- ASH
- ADDM
- SQL Trace
- TKPROF
- SQL Plan Management
- SQL Profiles
- SQL Tuning Advisor
- Memory Tuning
- Optimizer Statistics
- Execution Plans
- Index Tuning
- Partitioning Basics

Module 13: Automatic Maintenance

- Auto Optimizer Statistics
- Segment Advisor



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- SQL Tuning Advisor
- Maintenance Windows
- Scheduler Jobs
- Automatic Tasks

Module 14: High Availability

- Oracle Data Guard
- Physical Standby
- Logical Standby
- Snapshot Standby
- Switchover
- Failover
- Fast Start Failover
- Active Data Guard

Module 15: RAC & Grid Infrastructure

- Oracle Clusterware
- Grid Infrastructure
- Oracle RAC Architecture
- ASM
- OCR
- Voting Disk
- SCAN
- RAC Services
- RAC Administration

Module 16: ASM Administration

- ASM Architecture
- Disk Groups
- ASM Files
- Templates
- Rebalancing
- Failure Groups
- ASM Dynamic Views

Module 17: Oracle Scheduler



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- Scheduler Jobs
- Programs
- Chains
- Events
- Calendars
- Windows
- Resource Manager

Module 18: Monitoring

- Dynamic Performance Views
- Data Dictionary
- Alert Log
- Trace Files
- ADRCI
- Enterprise Manager
- OEM Cloud Control
- Health Monitor

Module 19: Database Patching

- Release Updates (RU)
- Release Update Revisions (RUR)
- OPatch
- OPatchAuto
- Rolling Patch
- Out-of-Place Patching

Module 20: Oracle AI Database (23ai / 26ai)

- AI Database Overview
- AI Vector Search
- Vector Data Type
- Vector Indexes
- Similarity Search
- Retrieval-Augmented Generation (RAG)
- Select AI
- Natural Language to SQL
- AI SQL Features
- JSON Relational Duality Views



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- JSON Enhancements
- Graph Features
- Property Graph
- Spatial AI
- AI Performance Considerations

Module 21: SQL for DBA

- SQL Basics
- Joins
- Functions
- Subqueries
- Views
- Sequences
- Synonyms
- Materialized Views
- Constraints

Module 22: PL/SQL for DBA

- Anonymous Blocks
- Procedures
- Functions
- Packages
- Triggers
- Exception Handling
- Dynamic SQL
- Collections

Module 23: Linux for Oracle DBA

- Linux Commands
- File System
- Process Management
- Permissions
- Shell Scripting
- Cron Jobs
- Environment Variables
- Oracle User Management



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Module 24: Automation

- Shell Scripts
- SQL Scripts
- RMAN Scripts
- Scheduler Automation
- Health Check Scripts
- Monitoring Scripts

Module 25: Database Upgrade & Migration

- Upgrade 19c to 23ai
- Upgrade 23ai to 26ai
- AutoUpgrade Utility
- Data Migration Strategies
- Cross-Platform Migration
- Zero Downtime Migration

Module 26: Oracle Cloud DBA

- Oracle Cloud Infrastructure (OCI)
- Bare Metal DB
- VM DB
- Exadata Cloud
- Autonomous Database
- OCI Monitoring
- OCI Backup
- OCI Security

Module 27: Troubleshooting

- ORA Errors
- Startup Issues
- Listener Problems
- Tablespace Full
- Undo Problems
- Archive Log Full
- Locking Issues
- Deadlocks
- Performance Issues



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Module 28: Real-Time DBA Activities

- Daily Health Check
- Capacity Planning
- Backup Verification
- Database Cloning
- Patching
- Performance Monitoring
- User Requests
- Production Support
- Incident Management
- Change Management