



# Oracle DBA Training in Coimbatore

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## Curriculum

### MODULE 1: INTRODUCTION TO ORACLE DATABASE

- ✓ Understanding Relational Databases
- ✓ Introduction to Oracle Database
- ✓ Versions and Editions of Oracle Database
- ✓ Oracle Architecture Overview
- ✓ Installing Oracle Database Software

### MODULE 2: ORACLE DATABASE MANAGEMENT

- ✓ Creating and Managing Oracle Database Instances
- ✓ Configuring Initialization Parameters
- ✓ Managing Tablespaces and Datafiles
- ✓ Working with Control Files and Redo Logs
- ✓ Managing Database Storage Structures

### MODULE 3: SQL AND PL/SQL FUNDAMENTALS

- ✓ Introduction to SQL
- ✓ Querying Data with SQL
- ✓ Data Manipulation Language (DML)
- ✓ Introduction to PL/SQL
- ✓ Writing and Executing PL/SQL Code
- ✓ Stored Procedures and Functions

### MODULE 4: DATABASE SECURITY

- ✓ User Authentication and Authorization
- ✓ Roles and Privileges

- ✓ Auditing Database Activity
- ✓ Data Encryption
- ✓ Database Security Best Practices

## **MODULE 5: BACKUP AND RECOVERY**

- ✓ Importance of Backup and Recovery
- ✓ RMAN (Recovery Manager) Overview
- ✓ Performing Full and Incremental Backups
- ✓ Database Restore and Recovery
- ✓ Flashback Technology

## **MODULE 6: PERFORMANCE TUNING**

- ✓ Identifying Performance Bottlenecks
- ✓ SQL Performance Tuning
- ✓ Indexing Strategies
- ✓ Database Monitoring Tools
- ✓ Implementing Best Practices

## **MODULE 7: HIGH AVAILABILITY AND DATA REPLICATION**

- ✓ Oracle Data Guard
- ✓ Oracle Real Application Clusters (RAC)
- ✓ High Availability Strategies
- ✓ Data Replication Techniques
- ✓ Failover and Switchover

## **MODULE 8: ADVANCED DATABASE ADMINISTRATION**

- ✓ Managing Multitenant Databases
- ✓ Database Upgrades and Patching
- ✓ Oracle Enterprise Manager (OEM)
- ✓ Database Health Checks
- ✓ Troubleshooting Common Issues

## **MODULE 9: REAL-WORLD PROJECTS**

- ✓ Hands-On Exercises and Projects
- ✓ Designing and Implementing a Database
- ✓ Performance Tuning Challenges
- ✓ Backup and Recovery Scenarios
- ✓ High Availability Configurations

## **MODULE 10: CERTIFICATION PREPARATION**

- ✓ Preparing for Oracle DBA Certification Exams
- ✓ Exam Overview and Study Resources
- ✓ Mock Tests and Practice Exams

## **MODULE 11: CAREER DEVELOPMENT**

- ✓ Resume Building and Interview Tips
- ✓ Job Search Strategies
- ✓ Navigating the IT Job Market
- ✓ Continuing Education and Advancement

## **MODULE 12: COURSE CONCLUSION AND GRADUATION**

This curriculum provides a structured approach to Oracle DBA training, covering fundamental concepts, practical skills, and advanced topics. It is essential to customize the curriculum to match the course's duration and the specific needs of your students. Additionally, consider using textbooks, online resources, and hands-on labs to complement the curriculum and enhance the learning experience.