



Complete Practical: Real-time Job Oriented Training

What is a Database?

A database is a centralized system used to store, organize, and manage large volumes of data in a structured way, ensuring security, consistency, and high availability.

What is Oracle Database?

Oracle Database is a powerful, enterprise-grade relational database management system (RDBMS) developed by Oracle Corporation. It is widely used in businesses for data storage, transaction processing, and analytics across industries.

What is an Oracle DBA?

Oracle DBA (Database Administrator) is a specialized role focused on the installation, configuration, administration, tuning, and backup of Oracle databases. An Oracle DBA ensures that the database is secure, highly available, and performing optimally for mission-critical business operations.

Who can join this course?

Anyone interested in managing and maintaining enterprise databases. No prior experience is required. We start from the fundamentals of databases and UNIX, and gradually cover real-time Oracle DBA tasks.

Placement assistance is provided based on individual performance and availability of job roles.

What about Lab Practice? What are the System Requirements

Operating System: Windows or Linux (Windows recommended for beginners)

RAM: Minimum 6 GB

Processor: Any modern processor (Intel/AMD)

We will help you with Oracle installation (19c or latest version), SQL

Developer setup, and Linux/UNIX tools for a fully guided hands-on learning experience.

Trainer: Mr. Shekar has 15+ years of experience primarily as an Oracle DBA and Secondary MS SQL Server DBA, providing support on Test, Development, and Production environments.

Oracle DBA & Cloud Training

Module 1: LINUX

Ch 1: Getting Started with UNIX

- ✓ UNIX & Architecture
- ✓ Login, Logout & Password
- ✓ List Files, Users & Directories
- ✓ UNIX Shutdown Commands

Ch 2: File Management, VI Editor

- ✓ File Creation & Display
- ✓ Hidden Files
- ✓ Edit Files Using vi Editor
- ✓ File Count, Copy, Rename

Ch 3: Directory Management

- ✓ Absolute vs Relative Paths
- ✓ Create, Copy
- ✓ Directories
- ✓ Dot (.) and Dot-dot

Ch 4: File Permissions

- ✓ File/Dir Access Modes
- ✓ r, w, x

- ✓ **chmod**
- ✓ **chown & chgrp Commands**
- ✓ **Ownership, Permissions**

Ch 5: Users Environment

- ✓ **Create/Modify Users**
- ✓ **Groups**
- ✓ **Profile Files (.bash_profile)**
- ✓ **Set Environment Variables**
- ✓ **Path and Shell Settings**

Module 2: Oracle Concepts

Ch 6: SQL Introduction

- ✓ **SQL Command Types**
- ✓ **SELECT, WHERE, ORDER BY**
- ✓ **DISTINCT, ALIAS**
- ✓ **DUAL Table**
- ✓ **Logical Operators**

Ch 7: Single Row Functions

- ✓ **Character & Numeric**
- ✓ **Date & Conversion Functions**
- ✓ **Nested Functions**
- ✓ **Using GROUP Functions**

Ch 8: Joins & Subqueries

- ✓ **INNER, OUTER, SELF Joins**
- ✓ **Table Aliases**
- ✓ **Single/Multiple Row**
- ✓ **Nested Queries Usage**

Ch 9: Transaction Controls

- ✓ **INSERT, UPDATE..**
- ✓ **COMMIT & ROLLBACK**
- ✓ **SAVEPOINT & Restore**

- ✓ **Data Validation**

Ch 10: Tables & Constraints

- ✓ **Create, Alter, Drop Table**
- ✓ **Add/Remove/Hide Columns**
- ✓ **Constraint Types & Syntax**
- ✓ **Table Renaming**
- ✓ **READ ONLY Mod**

Module 3: Oracle DBA- Level 1

Ch 11: Intro to Oracle DBA

- ✓ **What is a Database?**
- ✓ **DBA Roles & Tools**
- ✓ **Oracle Product Overview**
- ✓ **Database Types**
- ✓ **Database Vendors**

Ch 12: Oracle Instance Arche

- ✓ **SGA Architecture**
- ✓ **PGA Architecture**
- ✓ **Process Architecture**
- ✓ **Logical vs Physical Storage**
- ✓ **Control, Redo, Data Files**

Ch 13: Software Installation

- ✓ **12cR1 & 12cR2 Installation**
- ✓ **DBCA GUI & Manual Creation**
- ✓ **Database Layout**
- ✓ **Patch Set Prerequisites**

Ch 14: Startup, Shutdown

- ✓ **Startup/Shutdown Modes**
- ✓ **Initialization Parameter Files**
- ✓ **System & Session Parameters**
- ✓ **Using V\$ & DBA_VIEWS**

Ch 15: Security Management

- ✓ **Common & Local Users**
- ✓ **Roles & Privileges**
- ✓ **Profiles & Password Policies**
- ✓ **Session Management**

Ch 16: Tablespace & Datafiles

- ✓ **Tablespaces**
- ✓ **Resize Datafiles**
- ✓ **Segment Management**
- ✓ **Extent Management**

Ch 17: Undo Tablespace

- ✓ **Create & Manage Undo**
- ✓ **Assign Undo Tablespace**
- ✓ **Transaction Undo Usage**
- ✓ **Views for Undo Monitoring**

Ch 18: Temporary Tablespace

- ✓ **Create & Resize Temp Files**
- ✓ **Temp Tablespace Groups**
- ✓ **Views for Temp Usage**
- ✓ **Best Practices**

Ch 19: Control Files

- ✓ **Purpose of Control Files**
- ✓ **Multiplexing Control Files**
- ✓ **Backup Control Files**
- ✓ **V\$CONTROLFILE View**

Ch 20: Redo Logs & FRA

- ✓ **Redo & Archive Logs**
- ✓ **Archive Mode Setup**
- ✓ **Fast Recovery Area (FRA)**
- ✓ **Redo Log Views**

Ch 21: Oracle Net Services

- ✓ Oracle Listener Setup
- ✓ netca & netmgr Utilities
- ✓ Dedicated vs Shared Server
- ✓ TNS_ADMIN Configuration

Ch 22: Database Links

- ✓ DB Link Overview
- ✓ Private vs Public Links
- ✓ Create & Drop Links
- ✓ Use Cases for DB Links

Ch 23: Logical Backups

- ✓ Data Pumps
- ✓ expdp & impdp Basics
- ✓ Table/Schema/DB Export
- ✓ Metadata Packages

Ch 24: RMAN Backup & Restore

- ✓ RMAN Concepts
- ✓ Configuration
- ✓ Full & Incremental Backups
- ✓ Catalog Usage

Ch 25: Flashbacks & Restore

- ✓ Flashback Modes & Prereqs
- ✓ Restore Point Setup
- ✓ Flashback Table/DB
- ✓ Use Cases

Ch 26: RMAN Duplicate Cloning

- ✓ Cloning Types
- ✓ Clone Oracle Home
- ✓ Duplicate Command
- ✓ Considerations & Cleanup

Ch 27: Data Guard

- ✓ Physical & Logical Standby
- ✓ Data Guard Architecture
- ✓ SQL & RMAN for DG Setup
- ✓ Realtime Monitoring

Ch 28: Performance Tuning

- ✓ Memory Structure Sizing
- ✓ Wait Events
- ✓ Session Tracing
- ✓ Index Monitoring
- ✓ AWR Reports & Stats

Ch 29: Oracle Patching

- ✓ Versioning
- ✓ Patch Types
- ✓ Applying PSU & SPU
- ✓ OPatch Utility
- ✓ Upgrade Patch Strategy

Module 4: Oracle DBA Level 2

Chapter 30: Real world life of an Oracle DBA - 1

- ✓ Type of Oracle errors & valid errors and internal
- ✓ exceptions (ORA-00600 & ORA-07445 errors)
- ✓ How to work with Oracle Support

Chapter 31: Real world life of an Oracle DBA - 2

- ✓ Parlance and terminology used by Oracle DBAs
- ✓ Productivity tools required when you join the work place.
- ✓ Scheduling JOBS and scripts through UNIX/LINUX crontab utility
- ✓ Oracle DBAAS (Database as a Service)

Chapter 32: Real world life of an Oracle DBA - 3

- ✓ Navigate with My Services Dashboard.
- ✓ Oracle 21c ASM (Automatic Storage Management)
- ✓ Oracle 21c Database High Availability (RAC, Data Guard)
- ✓ How do I schedule a crontab in Unix?

Chapter 33: Real world life of an Oracle DBA - 4

- ✓ How do I schedule a cron job in Linux?
- ✓ How do I schedule a crontab script?
- ✓ What is the use of crontab command in Unix?
- ✓ What are the types of cloud computing solutions for database as a service DBaaS?

Module 4: Oracle DBA Project

👉  **Realtime Project**

👉  **Resume**

👉  **Mock Interviews**

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Trending Jobs

- Data Analyst
- Business Analyst
- Data Engineer
- SQL Developer
- SQL DBA
- ETL Admin
- Data Scientist



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