

# ORACLE DATABASE FOUNDATIONS

Course Code: 100723

Gain foundational knowledge of Oracle Database architecture, core components, backup, recovery, security, and basic administration

This course covers foundational knowledge of Oracle Database architecture, core components, backup, recovery, security, and basic administration. It's ideal for new DBAs, IT professionals, or anyone preparing for Oracle's 1Z0-006 Foundations exam. You will engage in hands-on labs to reinforce learning and apply concepts immediately.

## What You'll Learn

In this course you will learn to:

- Describe Oracle Database architecture: instance, database, memory, processes
- Understand storage structures: tablespaces, datafiles, control files, redo logs
- Perform basic instance operations: startup, shutdown, manage logs
- Apply security basics: users, privileges, roles, authentication
- Explain backup, recovery, and basic data protection
- Use Oracle tools (SQL\*Plus, Enterprise Manager) for basic admin tasks

## Who Needs to Attend

- New DBAs beginning their Oracle career path
- IT professionals who need foundational Oracle skills
- System administrators or support staff assisting with Oracle systems

## Prerequisites

- Basic relational database knowledge
- Familiarity with SQL queries recommended
- General IT knowledge of operating systems and file management

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CLASSROOM LIVE

\$2,295 USD

2 Day

## Classroom Live Outline

### Module 1: Oracle Architecture & Components

- Difference between instance and database
- Memory structures (SGA, PGA)
- Background processes
- Physical files: datafiles, control files, redo logs

#### Lab

- Query V\$ and dictionary views to identify components
- Inspect the file structure of a running database

### Module 2: Storage & Logical Structures

- Logical structures: tablespaces, segments, extents, blocks
- Types of tablespaces (SYSTEM, UNDO, TEMP, user)
- Datafile operations: add, resize, rename

#### Lab

- Create and manage tablespaces
- Add and resize datafiles
- Map logical to physical structures

### Module 3: Instance Operations & Logging

- Startup modes, shutdown modes
- Redo logs, archived redo logs
- Rollforward, recovery basics
- Alert log and trace files

#### Lab

- Start and stop instance in various modes
- Simulate a log switch, archive logs
- Explore the alert log and trace directories

### Module 4: User Security & Privileges

- Users, roles, system and object privileges
- Authentication methods

- Password policies, default roles

### **Lab**

- Create users and roles
- Grant and revoke privileges
- Configure authentication mode

### **Module 5: Backup & Recovery Fundamentals**

- Recovery concepts: complete, incomplete recovery
- Recovery tools overview (RMAN, user-managed)
- Data protection modes

### **Lab**

- Simulate basic backup and restore (user-managed)
- Recover a database to a point in time

### **Module 6: Tools & Administration Interfaces**

- SQL\*Plus, SQL Developer basics
- Enterprise Manager basics
- Data dictionary and catalog views

### **Lab**

- Use SQL\*Plus to query, create objects, run scripts
- Use EM to view database status
- Explore data dictionary views

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VIRTUAL CLASSROOM LIVE

\$2,295 USD

2 Day

## Virtual Classroom Live Outline

### Module 1: Oracle Architecture & Components

- Difference between instance and database
- Memory structures (SGA, PGA)
- Background processes
- Physical files: datafiles, control files, redo logs

#### Lab

- Query V\$ and dictionary views to identify components
- Inspect the file structure of a running database

### Module 2: Storage & Logical Structures

- Logical structures: tablespaces, segments, extents, blocks
- Types of tablespaces (SYSTEM, UNDO, TEMP, user)
- Datafile operations: add, resize, rename

#### Lab

- Create and manage tablespaces
- Add and resize datafiles
- Map logical to physical structures

### Module 3: Instance Operations & Logging

- Startup modes, shutdown modes
- Redo logs, archived redo logs
- Rollforward, recovery basics
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- Authentication methods

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### **Lab**

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- Grant and revoke privileges
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- Recovery concepts: complete, incomplete recovery
- Recovery tools overview (RMAN, user-managed)
- Data protection modes

### **Lab**

- Simulate basic backup and restore (user-managed)
- Recover a database to a point in time

### **Module 6: Tools & Administration Interfaces**

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- Data dictionary and catalog views

### **Lab**

- Use SQL\*Plus to query, create objects, run scripts
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