



ORACLE DATABASE

SQL . PL/SQL . PACKAGES . A
TABLESPACES . USERS . BAC
RMAN . TUNING . DATA PUMP

DURATION

50 Hours

LEVEL

**Intermediate to
Advanced**

MODULES

8

MODE

**Classroom •
Online • Hybrid**

01 COURSE OVERVIEW

An Oracle Database course covering SQL, PL/SQL programming and core administration.

The course covers Oracle-specific SQL and the PL/SQL language in depth — cursors, packages, exceptions, bulk operations — then administration: architecture, storage, users, backup with RMAN and performance tuning.

Learners build a PL/SQL application layer and run backup and recovery exercises.

WHO IT IS FOR

Developers on Oracle systems

Junior database administrators

ERP and banking application support staff

Analysts writing Oracle SQL

PREREQUISITES

Basic SQL knowledge.

02 LEARNING OUTCOMES

01 Write Oracle SQL including analytic functions.

03 Handle cursors, collections and bulk operations.

05 Manage tablespaces, users and privileges.

07 Move data with Data Pump.

02 Develop PL/SQL procedures, functions and packages.

04 Understand Oracle instance and storage architecture.

06 Back up and recover databases with RMAN.

08 Diagnose performance with execution plans and AWR basics.

01 ORACLE SQL

Data types

Set operators

Hierarchical queries

Sequences

Joins

Analytic functions

MERGE

LAB

SQL EXERCISES

02 PL/SQL FUNDAMENTALS

Blocks

Control structures

Exceptions

Collections

Variables

Cursors

Records

LAB

PROCEDURES

03 PACKAGES AND ADVANCED PL/SQL

Packages

Bulk collect and FORALL

Autonomous transactions

Overloading

Dynamic SQL

Triggers

LAB

APPLICATION PACKAGE

04 ARCHITECTURE

Instance and database

Background processes

Redo and undo

SGA and PGA

Control files

Data dictionary

05 STORAGE AND USERS

Tablespaces and datafiles

Users and profiles

Quotas

Segments and extents

Privileges and roles

06 BACKUP AND RECOVERY

Backup strategies

Full and incremental backups

Flashback features

RMAN configuration

Recovery scenarios

LAB

RECOVERY DRILL

07 DATA MOVEMENT

Data Pump export and import

SQL*Loader

External tables

Transportable tablespaces basics

08 PERFORMANCE

Optimizer basics

Indexes and statistics

AWR and ADDM overview

Execution plans

SQL tuning advisor

Locking

PROJECT

PL/SQL APPLICATION WITH BACKUP PLAN

04 ASSESSMENT & CERTIFICATION

Module assignments and labs

25%

Mini projects

20%

Internal assessments

15%

Final project and review

40%

CERTIFICATION

Learners who complete all modules, submit the final project and clear the review receive a course completion certificate from Kaizen Infinities Private Limited. Project work is documented for the learner's portfolio, and interview preparation is included in the closing sessions.

05 CAREER OUTCOMES

ROLES THIS PROGRAMME PREPARES FOR

ORACLE DEVELOPER

PL/SQL DEVELOPER

ORACLE DBA (JUNIOR)

ERP SUPPORT ENGINEER

DATABASE ANALYST

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