

COURSE OVERVIEW

Course Name:
(D80343GC20)
Oracle Database
19c: Advanced
PL/SQL

COURSE DURATION: 3 Days

Gauteng:

3rd Floor, 34 Whitely Road
Melrose Arch
Johannesburg
2196

Gauteng:

192 on Bram
192 Bram Fischer Drive
Ferndale, Randburg
Johannesburg
2160

Cape Town:


3rd Floor, Thomas Pattullo Building
19 Jan Smuts St
Cape Town
8000

Durban:

9 Mountview Close
Broadlands
Mount Edgecombe
Durban
4302

 **087 941 5764**

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COURSE DESCRIPTION

In this three-day instructor led course you will learn to handle complex data. You learn about collections, which enable you to work with a logical group of homogenous data. You will also learn to manage large objects and JSON data in the database. Apart from handling complex data, you will learn how to interface database with other programming languages such as C and Java. Further, you will be introduced to utilities such as PL/Scope and hierarchical profiler to analyze, trace, and profile PL/SQL code. These functions help you in improving the performance of the application. In addition, you will be introduced to various security mechanisms that can be used to secure applications.

DELIVERY METHOD

Our courses have flexible delivery options:

- In-person classroom training at the Impactful training facilities
 - Johannesburg, Durban, Cape Town
- Virtual instructor-led training
- Nationally: on-site at the client

COURSE OBJECTIVES

Upon completion, students will be able to:

- Write powerful PL/SQL programs
- Explore programming efficiency
- Use external C and Java routines
- Apply PL/SQL designing best practices
- Create PL/SQL applications that use collections
- Implement a virtual private database with fine-grained access control
- Write code to interface with external C and Java applications
- Write code to interface with large objects and use SecureFile LOBs
- Write and tune PL/SQL code effectively to maximize performance

TARGET AUDIENCE

This course would suit Application Developers and Database Administrators

PREREQUISITES

- A thorough knowledge of the SQL language
- Working experience with SQL *Plus
- Working experience on developing applications with PL/SQL Oracle requires and recommends that delegates have attended the following course prior to attending this course.
- Required Course: Oracle Database: Introduction to SQL
- Required Course: Oracle Database: Program with PL/SQL

COURSE CONTENT

Lesson 1: Introduction

Lesson 2: Working with Exadata Express Cloud Service

Lesson 3: Designing PL/SQL Code

Lesson 4: Overview of Collections

Lesson 5: Using Collections

Lesson 6: Handling Large Objects

Lesson 7: JSON Data in Database

Lesson 8: Advanced Interface Methods

Lesson 9: Performance and Tuning

Lesson 10: Improving Performance with Caching

Lesson 11: Analyzing PL/SQL Code

Lesson 12: Profiling and Tracing PL/SQL Code

Lesson 13: Securing Applications through PL/SQL

Lesson 13: Safeguarding Your Code against SQL Injection Attacks

Lesson 13: Advanced Security Mechanisms

Lesson 13: Table Descriptions and Data