

# COURSE OVERVIEW

**Course Name:**  
(D80343GC21)  
Oracle Database  
19c: SQL Tuning  
Workshop

**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

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## COURSE DESCRIPTION

This Oracle SQL Tuning for Developers Workshop will help you explore Oracle SQL statement tuning. Learn how to write well-tuned SQL statements appropriate for the Oracle database.

## 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 of this course, students will be able to:

- Interpret execution plans and the different ways in which data can be accessed.
- Decipher, decide and then apply tuning to SQL code.
- Use various tuning techniques.
- Take advantage of bind variables, trace files and use the different types of indexes.
- Use different access paths for better optimization.

## TARGET AUDIENCE

- Developers,
- Support Staff,
- Database Administrators and Data Warehouse Administrators

## PREREQUISITES

- A thorough knowledge of the SQL language
- Working experience with SQL \*Plus
- Working experience with SQL Developer or similar development environments Oracle requires and recommends that delegates have attended the following course prior to attending this course.
- Required Course: Oracle Database Introduction to SQL

## COURSE CONTENT

Lesson 1: Course Introduction

Lesson 2: Introduction to SQL Tuning

Lesson 3: Using Application Tracing Tools

Lesson 4: Optimizer Fundamentals

Lesson 5: Generating and Displaying Execution Plans

Lesson 6: Interpreting Execution Plans and Enhancements

Lesson 7: Optimizer: Table and Index Access Paths

Lesson 8: Using Bind Variables

Lesson 9: Optimizer: Join Operators

Lesson 10: Other Optimizer Operators

Lesson 11: Introduction to Optimizer Statistics Concepts

Lesson 12: Using Bind Variables

Lesson 13: SQL Plan Management

Lesson 14: Workshops