



# Oracle Database 19c: Performance Management and Tuning

Oracle

Live Training ( também disponível em presencial )

- **Localidade:** Imprimir Curso
  - **Data:** 13 Nov 2023
  - **Preço:** 2940 € ( Os valores apresentados não incluem IVA. Oferta de IVA a particulares e estudantes. )
  - **Horário:** Laboral das 09h30 - 16h30
  - **Nível:**
  - **Duração:** 30h
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## Sobre o curso

**Demonstrate fluency in and strong understanding of Oracle Database 19c performance analysis, management, and tuning for optimal performance in a complex environment.**

The Oracle Database 19c: Performance Management and Tuning course teaches you about the performance analysis and tuning tasks expected of a database administrator. The instructions are reinforced with hands-on practices.

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## Destinatários

- This course intended for Database administrators and technical support staff
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## Objetivos

In this course, you will learn to:

- Describe Performance Management
- Use AWR Performance Statistics
- Use AWR Based Tools
- Improve SQL Statement Performance
- Influence the Optimizer

- Use Tuning Analyzers and Advisors
  - Monitor Operations and applications
  - Manage Memory
  - Manage Database Memory
  - Use In-Memory Column Store Feature
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## Pré-requisitos

- Working knowledge of using SQL and administering an Oracle database 19c.
  - Basic knowledge of Linux / UNIX is recommended but not essential.
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## Programa

- Defining the Scope of Performance Issues
- Using the Time Model to Diagnose Performance Issues
- Using Statistics and Wait Events to Diagnose Performance Issues
- Using Log and Trace Files to Monitor Performance
- Using Enterprise Manager Cloud Control and SQL Developer to Monitor Performance
- Using Statspack to View Performance Data
- Using Automatic Workload Repository
- Using Metrics and Alerts
- Using Baselines
- Managing Automated Maintenance Tasks
- Using ADDM to Analyze Performance
- Using Active Session History Data for First Fault System Analysis
- Using Emergency Monitoring and Real-Time ADDM to Analyze Performance Issues
- Overview of SQL Statement Processing
- Maintaining Indexes
- Maintaining Tables
- Introduction to Query Optimizer
- Understanding Execution Plans
- Viewing Execution Plans by Using SQL Trace and TKPROF
- Managing Optimizer Statistics
- Using Automatic SQL Tuning
- Using the SQL Plan Management Feature
- Overview of the SQL Advisors
- Using the SQL Tuning Advisor
- Using the SQL Access Advisor

- Overview of Real Application Testing Components
- Using SQL Performance Analyzer to Determine the Impact of Changes
- Using Database Replay to Test System Performance
- Implementing Real-Time Database Operation Monitoring
- Using Services to Monitor Applications
- Overview of Memory Structures
- Managing Shared Pool Performance
- Managing Buffer Cache Performance
- Managing PGA and Temporary Space Performance
- Configuring the Large Pool
- Using Automatic Shared Memory Management
- Introduction to In-Memory Column Store
- Configuring the In-Memory Column Store Feature
- Using In-Memory Column Store with Oracle Database Features