# Database Performance Tuning: Optimize Oracle & SQL Server for Maximum Efficiency

23 - 27 Feb 2026
Doha

# Database Performance Tuning: Optimize Oracle & SQL Server for Maximum Efficiency

**Ref.:** 63_49422  **Date:** 23 - 27 Feb 2026  **Location:** Doha  **Fees:** 5500  **Euro**

## Course Overview:

"Database Performance Tuning: Oracle & SQL Server Masterclass" is a specialized 5-day corporate training designed to equip database administrators and technical professionals with practical skills and deep understanding of performance tuning across two leading platforms: Oracle and Microsoft SQL Server. With a focus on real-world performance issues and their solutions, this course delves into SQL performance optimization, execution plans, indexing techniques, and database optimization techniques using tools like Oracle AWR and SQL Server execution plans. Through hands-on examples, participants will learn how to identify bottlenecks, optimize queries, and tune both systems for peak performance.

## Target Audience:

- Database Administrators DBAs
- Database Developers
- Data Engineers
- IT System Analysts
- Software Engineers working with enterprise databases
- Technical Project Leads involved in performance-critical systems

## Targeted Organizational Departments:

- IT Infrastructure
- Data Management Teams
- Software Development Units
- Enterprise Architecture Groups
- DevOps Teams
- Application Performance Monitoring Units

## Targeted Industries:

- Banking and Financial Services
- Telecommunications
- Healthcare & Life Sciences
- Government & Public Sector
- E-commerce & Retail
- Insurance & Risk Management
- Oil & Gas and Energy Sectors

**Course Offerings:**

By the end of this course, participants will be able to:

- Analyze and interpret execution plans in both Oracle and SQL Server
- Apply SQL performance optimization techniques across platforms
- Tune PL/SQL and T-SQL for efficient processing
- Use Oracle AWR and SQL Server Profiler for diagnostics
- Implement indexing strategies and query rewriting
- Apply advanced tuning techniques for enterprise-grade workloads
- Resolve common performance bottlenecks
- Monitor and optimize database workloads using native tools

**Training Methodology:**

This training course uses a blend of instructor-led sessions, real-time database labs, hands-on case studies, and collaborative diagnostics exercises. Participants will engage in performance troubleshooting drills, cross-platform tuning comparisons, and guided walkthroughs of tools like Oracle SQL Developer and SQL Server Management Studio. The course emphasizes experiential learning using real SQL tuning scenarios, performance dashboards, and slow query analysis from both Oracle and SQL Server perspectives.

**Course Toolbox:**

- Sample Oracle and SQL Server databases for labs
- Query optimization checklists
- Execution plan templates and comparison sheets
- Troubleshooting flowcharts for Oracle AWR and SQL Profiler
- Tuning scripts and index templates
- Case-based assignments and solution decks

**Course Agenda:**

**Day 1: Introduction to Database Performance Tuning Concepts**

- **Topic 1:** Fundamentals of Database Performance Tuning
- **Topic 2:** Comparing Oracle vs SQL Server Architectures
- **Topic 3:** Key Performance Indicators KPIs and Bottlenecks
- **Topic 4:** Oracle and SQL Server Execution Plans Overview
- **Topic 5:** Role of Statistics and Optimizer Behavior
- **Topic 6:** Performance Tuning Mindset and Methodologies
- **Reflection & Review:** Tuning Mindset and Cross-Platform Foundations

## Day 2: SQL Query Optimization Techniques

- **Topic 1:** Oracle SQL Query Tuning and PL/SQL Best Practices
- **Topic 2:** SQL Server Query Tuning with T-SQL Optimization Techniques
- **Topic 3:** Identifying and Rewriting Inefficient Queries
- **Topic 4:** Use of Bind Variables, Hints, and Caching
- **Topic 5:** Adaptive Query Optimization in Oracle vs SQL Server
- **Topic 6:** Platform-Specific Query Optimization Strategies
- **Reflection & Review:** SQL Optimization Challenges & Tools Comparison

## Day 3: Indexing, Execution Plans & Advanced Tuning Tools

- **Topic 1:** SQL Indexing Best Practices for Oracle and SQL Server
- **Topic 2:** Reading and Interpreting Execution Plans
- **Topic 3:** Index Scan vs Seek: Understanding Performance Impacts
- **Topic 4:** Oracle AWR Reports and SQL Server Execution Plan Utilities
- **Topic 5:** Identifying Query Hotspots Using Tuning Tools
- **Topic 6:** Fixing Slow Queries Using Visual Plan Insights
- **Reflection & Review:** Real-World Execution Plan Scenarios

## Day 4: Monitoring, Diagnostics & Workload Management

- **Topic 1:** Oracle Performance Views and SQL Developer Tuning Utilities
- **Topic 2:** SQL Server Profiler and Extended Events Overview
- **Topic 3:** Using Baselines and Workload Repository in Oracle
- **Topic 4:** Monitoring Index Usage and Query Stats in SQL Server
- **Topic 5:** Resource Governance and Parallel Execution Considerations
- **Topic 6:** Alert Logs, Wait Events, and Blocking Sessions
- **Reflection & Review:** Diagnosing Live System Bottlenecks

## Day 5: Performance Tuning Strategy and Troubleshooting Lab

- **Topic 1:** Cross-Platform Tuning Strategy for Hybrid Environments
- **Topic 2:** Troubleshooting Slow Queries in Real Time
- **Topic 3:** Resolving Blocking and Deadlocks
- **Topic 4:** Optimization of Batch Jobs and Reporting Queries
- **Topic 5:** Final Lab: End-to-End Tuning Challenge
- **Topic 6:** Consolidated Tuning Checklist and Action Plan
- **Reflection & Review:** Lessons Learned and Performance Best Practices

## FAQ:

**What specific qualifications or prerequisites are needed for participants before enrolling in the course?**

A basic understanding of SQL and relational database concepts is expected. Prior hands-on experience with either Oracle or SQL Server is highly recommended for maximum benefit.

**How long is each day's session, and is there a total number of hours required for the entire course?**

Each day's session is generally structured to last around 4-5 hours, with breaks and interactive activities included. The total course duration spans five days, approximately 20-25 hours of instruction.

**Can this course be applied in cloud-hosted or hybrid environments?**

Yes. The techniques and diagnostics tools discussed can be applied to both on-premise and cloud-based deployments of Oracle and SQL Server.

## How This Course is Different from Other Database Performance Tuning Courses:

Unlike general tuning courses that focus only on one platform or theoretical optimization, this masterclass offers a dual-platform approach covering both Oracle and SQL Server with practical, side-by-side comparisons. It goes beyond basic SQL optimization by equipping professionals with diagnostic strategies using tools like Oracle AWR and SQL Server Profiler. Through intensive labs, participants gain real-world experience in solving slow queries and system bottlenecks. The course draws from official Oracle and Microsoft guidance while offering independent analysis frameworks, ensuring vendor-neutral, actionable tuning practices for enterprise environments.

# Training Course Categories



**Finance and Accounting Training Courses**



**Agile PM and Project Management Training Courses**



**Certified Courses By International Bodies**



**Communication and Public Relations Training Courses**



**Data Analytics Training and Data Science Courses**



**Environment & Sustainability Training Courses**



**Governance, Risk and Compliance Training Courses**



**Human Resources Training and Development Courses**



**IT Security Training & IT Training Courses**



**Leadership and Management Training Courses**



**Legal Training, Procurement and Contracting Courses**



**Maintenance Training and Engineering Training Courses**

# Training Course Categories



**Marketing, Customer Relations, and Sales Courses**



**Occupational Health, Safety and Security Training Courses**



**Oil & Gas Training and Other Technical Courses**



**Personal & Self-Development Training Courses**



**Quality and Operations Management Training Courses**



**Secretarial and Administration Training Courses**

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**Langkawi - Malaysia**


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**Milan - Italy**


**Montreux - Switzerland**


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**Zoom  - Online Training**

# WHO WE ARE

Agile Leaders is a renowned training center with a team of experienced experts in vocational training and development. With 20 years of industry experience, we are committed to helping executives and managers replace traditional practices with more effective and agile approaches.

## OUR VISION

We aspire to be the top choice training provider for organizations seeking to embrace agile business practices. As we progress towards our vision, our focus becomes increasingly customer-centric and agile.

## OUR MISSION

We are dedicated to developing value-adding, customer-centric agile training courses that deliver a clear return on investment. Guided by our core agile values, we ensure our training is actionable and impactful.

## WHAT DO WE OFFER

At Agile Leaders, we offer agile, bite-sized training courses that provide a real-life return on investment. Our courses focus on enhancing knowledge, improving skills, and changing attitudes. We achieve this through engaging and interactive training techniques, including Q&As, live discussions, games, and puzzles.

**AGILE LEADERS**
Training Center

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