



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

13 - 17 Jul 2027
Abu Dhabi



AGILE LEADERS
Training Center



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

Ref.: 63_78700 **Date:** 13 - 17 Jul 2027 **Location:** Abu Dhabi **Fees:** 4500 **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

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

Finance and Accounting 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

Marketing, Customer Relations, and Sales Courses

Occupational Health, Safety and Security Training Courses

Personal & Self-Development Training Courses

Quality and Operations Management Training Courses

Secretarial and Administration Training Courses



Training Cities

Abu Dhabi UAE	Accra Ghana	Al Jubail Saudi Arabia
Amman Jordan	Amsterdam Netherlands	Athens Greece
Baku Azerbaijan	Bangkok Thailand	Barcelona Spain
Berlin Germany	Cairo Egypt	Cape town South Africa
Casablanca Morocco	Chicago USA	Doha Qatar
Dubai UAE	Frankfurt Germany	Geneva Switzerland
Istanbul Turkey	Jakarta Indonesia	Johannesburg South Africa
Kuala Lumpur Malaysia	Kuwait Kuwait	Langkawi Malaysia
Lisbon Portugal	London UK	Madrid Spain
Manama Bahrain	Marbella Spain	Milan Italy
Montreux Switzerland	Munich Germany	Muscat Oman
Nairobi Kenya	New York USA	Paris France
Phuket Thailand	Porto Portugal	Prague Czech Republic

Training Cities

Riyadh

Saudi Arabia

Rome

Italy

San Diego

USA

Seoul

South Korea

Sharm El-Sheikh

Egypt

Singapore

Singapore

Tashkent

Uzbekistan

Tbilisi

Georgia

Tokyo

Japan

Toronto

Canada

Trabzon

Turkey

Vienna

Austria

Zanzibar

Tanzania

Zoom

Online Training