

MS512

MS SQL SERVER

Optimizing SQL Server 2014 / 2016 Performance

 Laboratory course**DURATION**
2 DAYS**REGULAR FEE**
955 \$**PREFERENTIAL FEE**
860 \$

Objectives

To provide the knowledge and skills required to optimize MS SQL Server 2014 / 2016 to get the highest possible performance for complex and/or high-volume applications.

Targeted audience

Database administrators and developers.

Prerequisite

Experience with [MS SQL Server 2008 R2 administration](#) (Courses MS509).

Content

- Introduction to performance optimization: physical design, load analysis
- MS SQL Server storage mechanisms: files, FILEGROUPS, extensions and pages
- Indexes: creation, options, structure, parameterization
- Indexed views, partitioned views and partitioned tables
- The role of the optimizer: how it works, query optimization
- Refining queries: the query execution plan and execution statistics
- SQL Server and VMs
- MS SQL Server with Windows: CPU utilization, virtual memory management, RAID disks
- Transactions and locks: exclusive and shared, range, page and table locks, isolation levels, hints
- Performance monitoring, stored procedures, perfmon, alerts, MS SQL Profiler
- Using the Database Engine Tuning Advisor
- Maintaining indexes (defragmentation) and statistics

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Select the training date*

Montreal	February 27 to February 28 2020
Quebec City	February 27 to February 28 2020
Montreal	June 10 to June 11 2020
Quebec City	June 10 to June 11 2020
Montreal	November 9 to November 10 2020
Quebec City	November 9 to November 10 2020