Microsoft SQL Server 2014 Query Tuning & Optimization

By Benjamin Nevarez

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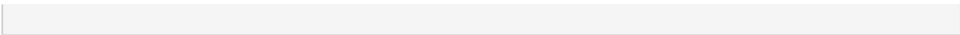
Optimize Microsoft SQL Server 2014 queries and applications

Microsoft SQL Server 2014 Query Tuning & Optimization is filled with ready-to-use techniques for creating high-performance queries and applications. The book describes the inner workings of the query processor so you can write better queries and provide the query processor with the quality information it needs to produce efficient execution plans. You'll also get tips for troubleshooting underperforming queries. In-Memory OLTP (Hekaton), a key new feature of SQL Server 2014, is fully covered in this practical guide.

- Understand how the query optimizer works
- Troubleshoot queries using extended events, SQL trace, dynamic management views (DMVs), the data collector, and other tools
- Work with query operators for data access, joins, aggregations, parallelism, and updates
- Speed up queries and dramatically improve application performance by creating the right indexes
- Understand statistics and how to detect and fix cardinality estimation errors
- Maximize OLTP query performance using In-Memory OLTP (Hekaton) features, including memory-optimized tables and natively compiled stored procedures
- Monitor and promote plan caching and reuse to improve application performance
- Improve the performance of data warehouse queries using columnstore indexes
- Handle query processor limitations with hints and other methods

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Editorial Review

About the Author
Benjamin Nevarez is a SQL Server MVP and independent consultant based in Los Angeles, California who specializes in SQL Server query tuning and optimization. He is the author of "SQL Server 2014 Query Tuning & Optimization" and "Inside the SQL Server Query Optimizer" and co-author of "SQL Server 2012 Internals". Benjamin has also been a speaker at many SQL Server conferences, including the PASS Summit, SQL Server Connections and SQLBits. Benjamin's blog can be found at benjaminnevarez.com and he can also be reached by e-mail at admin at benjaminnevarez dot com and on twitter at @BenjaminNevarez.

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