



Pro SQL Server Internals

By *Dmitri Korotkevitch*

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Pro SQL Server Internals By Dmitri Korotkevitch

Pro SQL Server Internals explains how different SQL Server components work "under the hood" and how they communicate with each other. This is the practical book with a large number of examples that will show you how various design and implementation decisions affect the behavior and performance of your systems.

Pro SQL Server Internals covers a multiple SQL Server versions starting with SQL Server 2005 all the way up to the recently released SQL Server 2014. You'll learn about new SQL Server 2014 features including the new Cardinality Estimator, In-Memory OLTP Engine (codename Hekaton), and Clustered Columnstore Indexes. With *Pro SQL Server Internals*, you have a solid roadmap for understanding the depth and power of the SQL Server database backend, regardless of the version and edition of SQL Server you use.

Pro SQL Server Internals does the following:

- Explains how to design efficient database schema, indexing, and transaction strategies.
- Shows how various database objects and technologies are implemented internally and when they should or should not be used.
- Demonstrates how SQL Server executes queries and works with data and transaction logs.

What you'll learn

- Design and develop efficient database solutions utilizing SQL Server as the database backend.
- Troubleshoot and address design, concurrency, and performance issues in systems.
- Choose the right database objects and technologies for the job.
- Improve system availability and manageability and reduce implementation costs with data partitioning.
- Design efficient Disaster Recovery and High-Availability strategies for systems.
- Improve the performance of OLTP and Data Warehouse systems by utilizing

new SQL Server 2014 features, such as the In-Memory OLTP Engine and Clustered Columnstore Indexes.

Who this book is for

Pro SQL Server Internals is a book for developers and database administrators who want to design, develop, and maintain systems in a way that gets the most from SQL Server. This book is an excellent choice for people who prefer to understand and fix the root cause of a problem, rather than applying a 'band aid' to it.



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Editorial Review

From the Back Cover

Improve your ability to develop, manage, and troubleshoot SQL Server solutions by learning how different components work under the hood, and how they communicate with each other. The detailed knowledge helps in implementing and maintaining high-throughput databases critical to your business and its customers. You'll learn how to identify the root cause of each problem and understand how different design and implementation decisions affect performance of your systems.

New in this second edition is coverage of SQL Server 2016 Internals, including In-Memory OLTP, columnstore enhancements, Operational Analytics support, Query Store, JSON, temporal tables, stretch databases, security features, and other improvements in the new SQL Server version. The knowledge also can be applied to Microsoft Azure SQL Databases that share the same code with SQL Server 2016.

Pro SQL Server Internals is a book for developers and database administrators, and it covers multiple SQL Server versions starting with SQL Server 2005 and going all the way up to the recently released SQL Server 2016. The book provides a solid road map for understanding the depth and power of the SQL Server database server and teaches how to get the most from the platform and keep your databases running at the level needed to support your business. The book:

Provides detailed knowledge of new SQL Server 2016 features and enhancements

Includes revamped coverage of columnstore indexes and In-Memory OLTP

Covers indexing and transaction strategies

Shows how various database objects and technologies are implemented internally, and when they should or should not be used

Demonstrates how SQL Server executes queries and works with data and transaction log

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About the Author

Dmitri Korotkevitch is Microsoft SQL Server MVP and Microsoft Certified Master (in SQL Server 2008). He brings years of experience working with SQL Server as an Application and Database Developer, Database Administrator, and Database Architect. He specializes in design, development, and performance tuning of OLTP Systems working under heavy load.

Dmitri regularly speaks at various Microsoft and SQL PASS events, and he provides SQL Server training to clients around the world. He blogs at: <http://aboussqlserver.com>.

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Joshua Ricker:

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