

[PDF] Pro SQL Server Internals

Dmitri Korotkevitch - pdf download free book



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Description:

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 indexes, and support for Copy Free In-Memory OLTP tables, stretch databases, security features, and more. It also applies to Microsoft Azure SQL Database, the cloud service now available on SQL Server 2016.

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

What You Will Learn

- Design and develop database solutions with SQL Server.
- Troubleshoot design, concurrency, and performance issues.
- Choose the right database objects and technologies for the job.
- Reduce costs and improve availability and manageability.
- Design disaster recovery and high-availability strategies.
- Improve performance of OLTP and data warehouse systems through in-memory OLTP and Columnstore indexes.

Who This Book Is 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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