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Pass Exam 70-461 Book: Querying Microsoft SQL Server 2012 - Kalman Toth

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T-SQL insiders help you tackle your toughest queries and query-tuning problems Squeeze maximum performance and efficiency from every T-SQL query you write or tune. Four leading experts take an in-depth look at T-SQL's

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internal architecture and offer advanced practical techniques for optimizing response time and resource usage.

T-SQL Querying | Microsoft Press Store

A SQL Server Microsoft MVP (Most Valuable Professional) since 1999, Itzik has delivered numerous training events around the world focused on T-SQL querying, query tuning, and programming. Itzik has authored several T-SQL books as well as articles for SQL Server Pro , SolidQ Journal , and MSDN.

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Tackle the toughest set-based querying and query tuning problems—guided by an author team with in-depth, inside knowledge of T-SQL.

Inside Microsoft SQL Server 2008 T-SQL Querying: T-SQL ...

Contents at a glance Foreword xv Introduction xvii CHAPTER 1 Logical query processing 1 CHAPTER 2 Query tuning 41 CHAPTER 3 Multi-table queries 187 CHAPTER 4 Grouping, pivoting, and windowing 259 CHAPTER 5 TOP and

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OFFSET-FETCH 341 CHAPTER 6 Data modification 373
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CHAPTER 9 Programmable objects 525

T-SQL Querying

Updating both Inside Microsoft SQL Server 2008 T-SQL Querying (Microsoft Press, 2009) and parts of Inside Microsoft SQL Server 2008 T-SQL Programming (Microsoft Press, 2009), the book gives database developers and administrators a detailed look at the internal architecture of T-SQL and a comprehensive programming reference.

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T-SQL Querying (Developer Reference (Paperback)) | Itzik ...

T-SQL Querying is really the best computer oriented book I have read - and will use as reference for years. The distinguishing feature is the initial concentration on the basics of SQL queries and building on the basics to the most complex.

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*[Udemy] T-SQL Querying (Developer Reference)
Free Course*

The title of this book is T-SQL Querying (Developer Reference) and it was written by Itzik Ben-Gan, Adam Machanic, Dejan Sarka. This particular edition is in a Paperback

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format. This books publish date is Mar 06, 2015 and it has a suggested retail price of \$59.99. It was published by Microsoft Press and has a total of 864 pages in the book.

T-SQL Querying (Developer Reference) by Ben-Gan, Itzik ...

T-SQL Querying (Developer Reference) Ben-Gan, Itzik", "Machanic, Adam", "Sarka, Dejan", "Farlee, Kevin". Published by Microsoft Press (2015) ISBN 10: 0735685045 ISBN 13: 9780735685048. New Paperback Quantity available: 20. Seller: booksXpress.

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T-SQL insiders help you tackle your toughest queries and query-tuning problems Squeeze maximum performance and efficiency from every T-SQL query you write or tune. Four leading experts take an in-depth look at T-SQL's internal architecture and offer advanced practical techniques for optimizing response time and resource usage. Emphasizing a correct understanding of the language and its ...

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T-SQL Querying (Developer Reference) Kindle Edition by Itzik Ben-Gan (Author), Adam Machanic (Author), Dejan Sarka (Author), Kevin Farlee (Author) & 1 more Format: Kindle Edition 4.6 out of 5 stars 75 ratings

T-SQL Querying (Developer Reference) eBook: Ben-Gan, Itzik ...

A SQL Server Microsoft MVP (Most Valuable Professional) since 1999, Itzik has delivered numerous training events around the world focused on T-SQL querying, query tuning, and programming. Itzik has authored several T-SQL books as well as articles for SQL Server Pro

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, SolidQ Journal , and MSDN.

T-SQL Querying by Itzik Ben-Gan, Adam Machanic, Dejan ...

Acknowledged authors Itzik Ben-Gan , Adam Machanic , Dejan Sarka , Kevin Farlee wrote T-SQL Querying (Developer Reference) comprising 864 pages back in 2015. Textbook and eTextbook are published under ISBN 0735685045 and 9780735685048.

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T-SQL Querying by Itzik Ben-Gan - Goodreads
Gain a solid understanding of T-SQL--and write better queries Master the fundamentals of Transact-SQL--and develop your own code for querying and modifying data in Microsoft SQL Server 2016. Led by a SQL Server expert,

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correct understanding of the language and its foundations, the authors present unique solutions they have spent years developing and refining. All code and techniques are fully updated to reflect new T-SQL enhancements in Microsoft SQL Server 2014 and SQL Server 2012. Write faster, more efficient T-SQL code: Move from procedural programming to the language of sets and logic Master an efficient top-down tuning methodology Assess algorithmic complexity to predict performance Compare data aggregation techniques, including new grouping sets Efficiently perform data-analysis calculations Make the

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most of T-SQL's optimized bulk import tools
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poorly performing code Create optimized BI
statistical queries without additional
software Use programmable objects to
accelerate queries Unlock major performance
improvements with In-Memory OLTP Master
useful and elegant approaches to manipulating
graphs About This Book For experienced T-SQL
practitioners Includes coverage updated from
Inside Microsoft SQL Server 2008 T-SQL
Querying and Inside Microsoft SQL Server 2008
T-SQL Programming Valuable to developers,
DBAs, BI professionals, and data scientists

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Covers many MCSE 70-464 and MCSA/MCSE 70-461 exam topics

Effectively query and modify data using Transact-SQL Master T-SQL fundamentals and write robust code for Microsoft SQL Server and Azure SQL Database. Itzik Ben-Gan explains key T-SQL concepts and helps you apply your knowledge with hands-on exercises. The book first introduces T-SQL's roots and underlying logic. Next, it walks you through core topics such as single-table queries, joins, subqueries, table expressions, and set operators. Then the book covers more-advanced

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data-query topics such as window functions, pivoting, and grouping sets. The book also explains how to modify data, work with temporal tables, and handle transactions, and provides an overview of programmable objects. Microsoft Data Platform MVP Itzik Ben-Gan shows you how to:

- Review core SQL concepts and its mathematical roots
- Create tables and enforce data integrity
- Perform effective single-table queries by using the SELECT statement
- Query multiple tables by using joins, subqueries, table expressions, and set operators
- Use advanced query techniques such as window functions, pivoting, and grouping

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sets Insert, update, delete, and merge data
Use transactions in a concurrent environment
Get started with programmable objects—from variables and batches to user-defined functions, stored procedures, triggers, and dynamic SQL

Tackle the toughest set-based querying and query tuning problems—guided by an author team with in-depth, inside knowledge of T-SQL. Deepen your understanding of architecture and internals—and gain practical approaches and advanced techniques to optimize your code's performance. Discover

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how to: Move from procedural programming to the language of sets and logic Optimize query tuning with a top-down methodology Assess algorithmic complexity to predict performance Compare data-aggregation techniques, including new grouping sets Manage data modification—insert, delete, update, merge—for performance Write more efficient queries against partitioned tables Work with graphs, trees, hierarchies, and recursive queries Plus—Use pure-logic puzzles to sharpen your problem-solving skills

Troubleshoot query performance issues,

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identify anti-patterns in code, and write efficient T-SQL queries

Key Features

- Discover T-SQL functionalities and services that help you interact with relational databases
- Understand the roles, tasks and responsibilities of a T-SQL developer
- Explore solutions for carrying out database querying tasks, database administration, and troubleshooting

Book Description

Transact-SQL (T-SQL) is Microsoft's proprietary extension to the SQL language that is used with Microsoft SQL Server and Azure SQL Database. This book will be a useful guide to learning the art of writing efficient T-SQL code in

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modern SQL Server versions, as well as the Azure SQL Database. The book will get you started with query processing fundamentals to help you write powerful, performant T-SQL queries. You will then focus on query execution plans and learn how to leverage them for troubleshooting. In the later chapters, you will learn how to identify various T-SQL patterns and anti-patterns. This will help you analyze execution plans to gain insights into current performance, and determine whether or not a query is scalable. You will also learn to build diagnostic queries using dynamic management views (DMVs)

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and dynamic management functions (DMFs) to address various challenges in T-SQL execution. Next, you will study how to leverage the built-in tools of SQL Server to shorten the time taken to address query performance and scalability issues. In the concluding chapters, the book will guide you through implementing various features, such as Extended Events, Query Store, and Query Tuning Assistant using hands-on examples. By the end of this book, you will have the skills to determine query performance bottlenecks, avoid pitfalls, and discover the anti-patterns in use. Foreword by Conor

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Cunningham, Partner Architect – SQL Server and Azure SQL – Microsoft What you will learn Use Query Store to understand and easily change query performance Recognize and eliminate bottlenecks that lead to slow performance Deploy quick fixes and long-term solutions to improve query performance Implement best practices to minimize performance risk using T-SQL Achieve optimal performance by ensuring careful query and index design Use the latest performance optimization features in SQL Server 2017 and SQL Server 2019 Protect query performance during upgrades to newer versions of SQL

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Server Who this book is for This book is for database administrators, database developers, data analysts, data scientists, and T-SQL practitioners who want to get started with writing T-SQL code and troubleshooting query performance issues, through the help of practical examples. Previous knowledge of T-SQL querying is not required to get started on this book.

Gain a solid understanding of T-SQL—and write better queries Master the fundamentals of Transact-SQL—and develop your own code for querying and modifying data in Microsoft SQL

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Server 2012. Led by a SQL Server expert, you'll learn the concepts behind T-SQL querying and programming, and then apply your knowledge with exercises in each chapter. Once you understand the logic behind T-SQL, you'll quickly learn how to write effective code—whether you're a programmer or database administrator. Discover how to:

- Work with programming practices unique to T-SQL
- Create database tables and define data integrity
- Query multiple tables using joins and subqueries
- Simplify code and improve maintainability with table expressions
- Implement insert, update, delete, and merge

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data modification strategies Tackle advanced techniques such as window functions, pivoting and grouping sets Control data consistency using isolation levels, and mitigate deadlocks and blocking Take T-SQL to the next level with programmable objects

Apply powerful window functions in T-SQL—and increase the performance and speed of your queries Optimize your queries—and obtain simple and elegant solutions to a variety of problems—using window functions in Transact-SQL. Led by T-SQL expert Itzik Ben-Gan, you'll learn how to apply calculations

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against sets of rows in a flexible, clear, and efficient manner. Ideal whether you're a database administrator or developer, this practical guide demonstrates ways to use more than a dozen T-SQL querying solutions to address common business tasks. Discover how to: Go beyond traditional query approaches to express set calculations more efficiently Delve into ordered set functions such as rank, distribution, and offset Implement hypothetical set and inverse distribution functions in standard SQL Use strategies for improving sequencing, paging, filtering, and pivoting Increase query speed using

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partitioning, ordering, and coverage indexing
Apply new optimization iterators such as
Window Spool Handle common issues such as
running totals, intervals, medians, and gaps

"Most T-SQL developers recognize the value of window functions for data analysis calculations. But they can do far more, and recent optimizations make them even more powerful. In T-SQL Window Functions, renowned T-SQL expert Itzik Ben-Gan introduces breakthrough techniques for using them to handle many common T-SQL querying tasks with unprecedented elegance and power. Using

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extensive code examples, he guides you through window aggregate, ranking, distribution, offset, and ordered set functions. You'll find a detailed section on optimization, plus an extensive collection of business solutions -- including novel techniques available in no other book."--provided by publisher.

Prepare for Microsoft Exam 70-761—and help demonstrate your real-world mastery of SQL Server 2016 Transact-SQL data management, queries, and database programming. Designed for experienced IT professionals ready to

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challenge you • Assumes you have experience working with SQL Server as a database administrator, system engineer, or developer

- Includes downloadable sample database and code for SQL Server 2016 SP1 (or later) and Azure SQL Database Querying Data with Transact-SQL

About the Exam Exam 70-761 focuses on the skills and knowledge necessary to manage and query data and to program databases with Transact-SQL in SQL Server 2016. About Microsoft Certification Passing this exam earns you credit toward a Microsoft Certified Solutions Associate (MCSA) certification that demonstrates your mastery

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of essential skills for building and implementing on-premises and cloud-based databases across organizations. Exam 70-762 (Developing SQL Databases) is also required for MCSA: SQL 2016 Database Development certification. See full details at: microsoft.com/learning

Use window functions to write simpler, better, more efficient T-SQL queries Most T-SQL developers recognize the value of window functions for data analysis calculations. But they can do far more, and recent optimizations make them even more powerful.

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In T-SQL Window Functions, renowned T-SQL expert Itzik Ben-Gan introduces breakthrough techniques for using them to handle many common T-SQL querying tasks with unprecedented elegance and power. Using extensive code examples, he guides you through window aggregate, ranking, distribution, offset, and ordered set functions. You'll find a detailed section on optimization, plus an extensive collection of business solutions – including novel techniques available in no other book. Microsoft MVP Itzik Ben-Gan shows how to:

- Use window functions to improve queries you

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parallelism, and more • Discover a full library of window function solutions for common business problems About This Book • For developers, DBAs, data analysts, data scientists, BI professionals, and power users familiar with T-SQL queries • Addresses any edition of the SQL Server 2019 database engine or later, as well as Azure SQL Database Get all code samples at: MicrosoftPressStore.com/TSQLWindowFunctions/downloads

Get the most out of the rich development capabilities of SQL Server 2016 to build efficient database applications for your

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organization About This Book Utilize the new enhancements in Transact-SQL and security features in SQL Server 2016 to build efficient database applications Work with temporal tables to get information about data stored in the table at any point in time A detailed guide to SQL Server 2016, introducing you to multiple new features and enhancements to improve your overall development experience Who This Book Is For This book is for database developers and solution architects who plan to use the new SQL Server 2016 features for developing efficient database applications. It is also

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ideal for experienced SQL Server developers who want to switch to SQL Server 2016 for its rich development capabilities. Some understanding of the basic database concepts and Transact-SQL language is assumed. What You Will Learn Explore the new development features introduced in SQL Server 2016 Identify opportunities for In-Memory OLTP technology, significantly enhanced in SQL Server 2016 Use columnstore indexes to get significant storage and performance improvements Extend database design solutions using temporal tables Exchange JSON data between applications and SQL Server in a more

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efficient way Migrate historical data transparently and securely to Microsoft Azure by using Stretch Database Use the new security features to encrypt or to have more granular control over access to rows in a table Simplify performance troubleshooting with Query Store Discover the potential of R's integration with SQL Server In Detail Microsoft SQL Server 2016 is considered the biggest leap in the data platform history of the Microsoft, in the ongoing era of Big Data and data science. Compared to its predecessors, SQL Server 2016 offers developers a unique opportunity to leverage

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the advanced features and build applications that are robust, scalable, and easy to administer. This book introduces you to new features of SQL Server 2016 which will open a completely new set of possibilities for you as a developer. It prepares you for the more advanced topics by starting with a quick introduction to SQL Server 2016's new features and a recapitulation of the possibilities you may have already explored with previous versions of SQL Server. The next part introduces you to small delights in the Transact-SQL language and then switches to a completely new technology inside SQL

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Server - JSON support. We also take a look at the Stretch database, security enhancements, and temporal tables. The last chapters concentrate on implementing advanced topics, including Query Store, columnstore indexes, and In-Memory OLTP. You will finally be introduced to R and how to use the R language with Transact-SQL for data exploration and analysis. By the end of this book, you will have the required information to design efficient, high-performance database applications without any hassle. Style and approach This book is a detailed guide to mastering the development features offered by

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SQL Server 2016, with a unique learn-as-you-do approach. All the concepts are explained in a very easy-to-understand manner and are supplemented with examples to ensure that you—the developer—are able to take that next step in building more powerful, robust applications for your organization with ease.

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