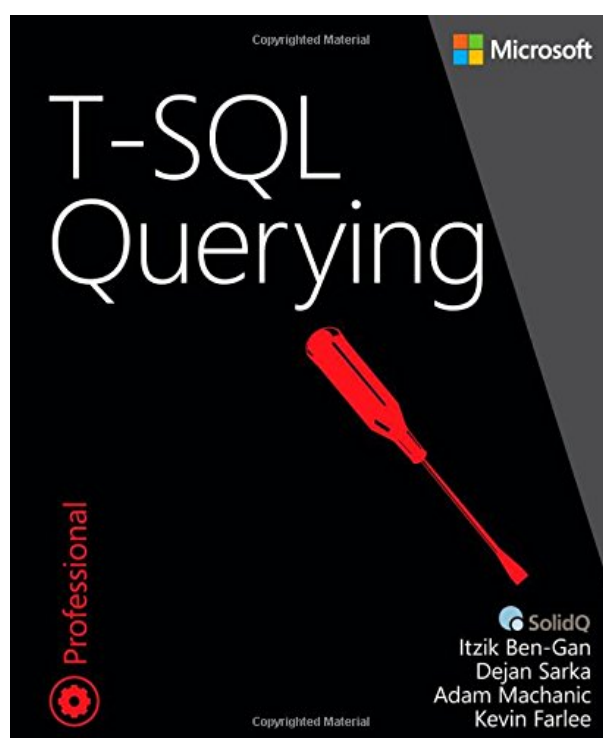
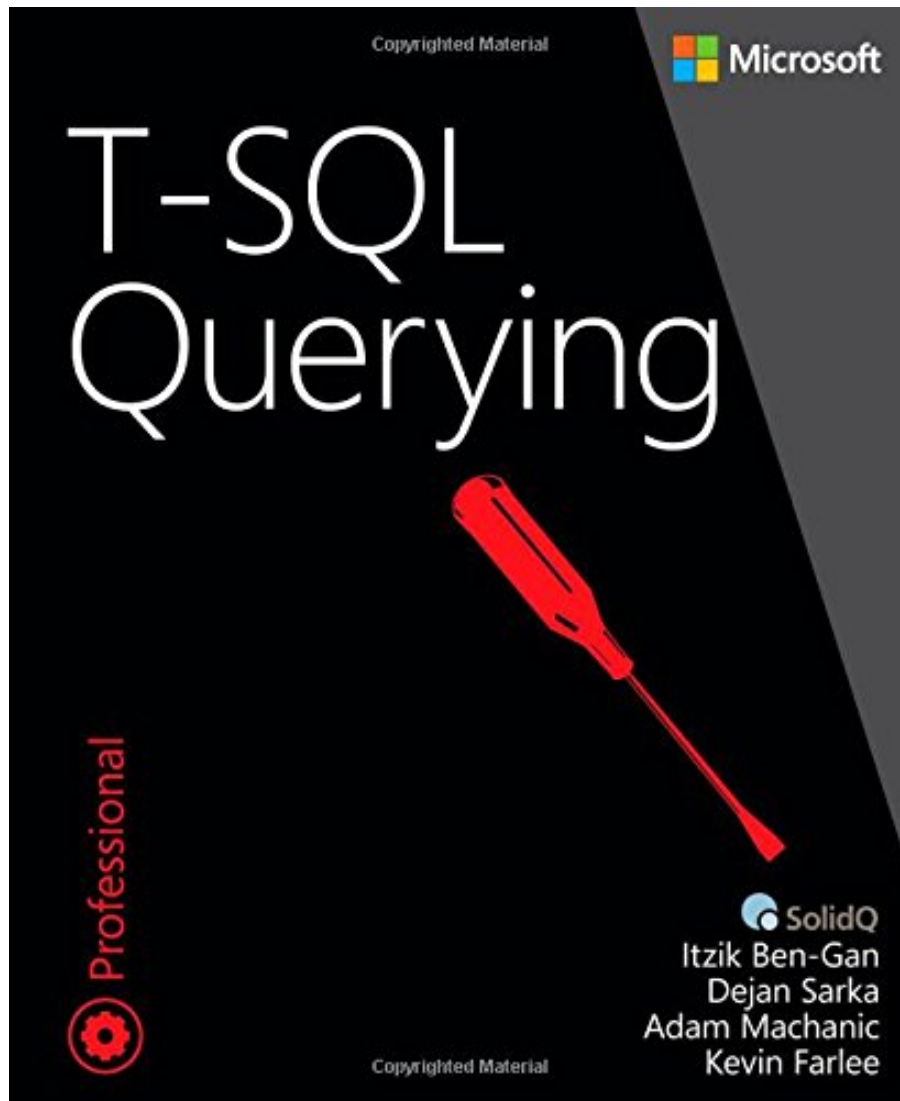


T-SQL QUERYING (DEVELOPER REFERENCE) BY ITZIK BEN-GAN, ADAM MACHANIC, DEJAN SARKA, KEVIN FARLEE



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About the Author

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T-SQL QUERYING (DEVELOPER REFERENCE) BY ITZIK BEN-GAN, ADAM MACHANIC, DEJAN SARKA, KEVIN FARLEE PDF

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 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 most of T-SQL's optimized bulk import tools
- Avoid date/time pitfalls that lead to buggy, 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
- Covers many MCSE 70-464 and MCSA/MCSE 70-461 exam topics

- Sales Rank: #89702 in Books
- Published on: 2015-03-16
- Original language: English
- Number of items: 1
- Dimensions: 8.90" h x 1.80" w x 7.40" l, .0 pounds
- Binding: Paperback
- 864 pages

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Most helpful customer reviews

15 of 15 people found the following review helpful.

Gives a deeper understanding of T-SQL features, with an emphasis throughout on performance.

By Ian Stirk

Hi,

I have written a detailed chapter-by-chapter review of this book on www.DOT-i-programmer.DOT-info, the first and last parts of this review are given here. For my review of all chapters, search [i-programmer.DOT-info](http://www.DOT-i-programmer.DOT-info) for STIRK together with the book's title.

This book from SolidQ aims to give you a deeper understanding of T-SQL functionality. With an emphasis throughout on performance, how does it fare?

This book is both an update to, and a combination of, three previous books (T-SQL Querying – published 2009, T-SQL Programming -2009, and T-SQL Using Window Functions - 2012). New material from SQL Server 2012 and 2014 is discussed, including: Window Functions, the new cardinality estimator, sequences, columnstore technology, and in-memory OLTP. It comes from SolidQ and is written by some of the most respected names in the world of SQ Server.

Aimed primarily at developers and administrators, it offers a detailed view of internal architecture and a

comprehensive programming reference. It aims to provide a practical approach together with techniques to optimize code. This is not a book for the beginner, it assumes at least one year's solid experience of T-SQL programming, and tuning basics.

Below is a chapter-by-chapter exploration of the topics covered.

Chapter 1 Logical query processing

This chapter opens with an observation about experts - they build their knowledge upon a solid understanding of the basics. So this chapter starts with a look at the basics, logical query processing i.e. the logical order the various parts of a T-SQL statement are executed. Each step is discussed in detail, these steps are:

1. FROM phase (include virtual table for each of the possible types of join)
2. WHERE phase (can't use column aliases here – SELECT not yet applied)
3. GROUP BY phase (nulls considered equal here)
4. HAVING phase (filter applied to GROUP BY)
5. SELECT phase (2 steps: evaluate expressions then apply distinct clause)
6. ORDER BY phase
7. Apply the TOP or OFFSET-FETCH filter

The chapter continues with a look at further aspects of logical query processing, including table operators (join, apply, pivot, unpivot), windows functions (work with set of data per underlying row, use OVER clause) and UNION, EXCEPT, and INTERSECT operators.

This chapter provides instructive detail on the logical order that the various parts of a T-SQL statement are executed. Helpful examples are provided to illustrate the points made. The discussions are easy to read. Plenty of useful tips are provided along the way (e.g. a CASE expression with no ELSE clause has an implicit ELSE NULL). Useful links to other chapters in this book and to various websites are provided. All these points apply to the whole book.

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Conclusion

This book aims to give you a deeper understanding of T-SQL features, with an emphasis throughout on performance. It is an amalgamation and update of 3 previous well-respected books.

All the topics are explained in a very readable and interesting manner. Throughout, there are helpful explanations, screenshots, practical code examples, inter-chapter references, and links to websites for further information. Where possible, references to performance improvements are included. Additionally, there are plenty of useful incidental side tips. Although primarily intended for SQL Server 2014 and 2012, much of the content is applicable to earlier (and probably later) versions too.

This book is not for the beginner. It teaches advanced SQL concepts and techniques, it should take your understanding of T-SQL from around 4 to around 8. It is an ideal follow-on from Ben-Gan's "Microsoft SQL Server 2012 T-SQL Fundamentals", which I recently reviewed.

The book does have omissions, and this is to be expected, otherwise it would run into several volumes. I

would have liked to have seen a section on websites/newsletters that would improve your T-SQL understanding. I would have also liked to have seen some discussion of Big Data and its implications. Then there's the perennial problem of book updates, it would be helpful to know what is new compared to previous editions of the book (this should be easier in the digital world). That said, in the broader context, these are really minor points.

If you want a more advanced understanding of T-SQL features, together with the latest performance techniques, written by some of the best SQL educators, I can highly recommend this excellent book.

5 of 5 people found the following review helpful.

The Must Have T-SQL querying book

By Flav

This book is truly a reference book to have. If you're pretty serious about taking your T-SQL to advanced and expert level, this is the ultimate reference book to have. The very first chapter will be a great eye-opening if you never learned about T-SQL logical processing. This first chapter explains why you were getting certain error messages you can't even debug and with which google search can't help either. The next chapter and the subsequent 3 chapters really give you the power and the ability to think like a "pro" and SQL codes just pour from your mind to your fingers and to the keyboard. I just read the first five chapters and I was able to solve so many business problems that I couldn't solve before and about which I couldn't find help online with Google.

This book is packed with excellent expert knowledge to help you grow your skills and think and design solutions for solving business problems.

5 of 5 people found the following review helpful.

Superb reference for the SQL Server developer

By Gerald W. Britton

This book is easily among the finest on the subject. It covers everything a SQL Server developer needs to know to get the job done and get it done right the first time. It even delves into the SQLCLR which is given short shrift in many other volumes. The book finishes off with advanced topics on graph construction and navigation, perhaps not everyday issues for most developers but essential information when you need it.

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