

Microsoft Sql Server T Sql In 10 Minutes Sams Teach Yourself

Now updated to reflect the much-anticipated "Yukon" release of SQL Server, this friendly guide shows database developers and administrators as well as those who use database application how to get up to speed fast Offers a gentle introduction to relational database design and shows how to build databases, create database applications, and maintain and optimize database performance Covers the major new features of the "Yukon" release-including analysis services, reporting services, and notification services

* Comprehensive T-SQL Coverage, including all SQL Server 2005 new features, from an established SQL Server expert and author. * Broad appeal, with practical 'How to' answers to common SQL Server T-SQL questions for both novice and advanced DBAs and developers. * Unique, easy-reference format – ideal for preparing for a SQL Server job interview, or for a SQL Server certification test

Provides information on the architecture of the T-SQL programming language to create scalable code.

<http://www.techstuffybooks.com> Practical Sql - Microsoft Sql Server T-SQL for Beginners Learning how to develop using sql or even just performing basic queries on a sql database is becoming an essential skill for many roles within the IT industry. With Practical Sql you will stop being a novice when it comes to using the Microsoft Sql Server database and learn a useful skill. Practical Sql will provide a concise guide to sql server development with the main aim to prevent boredom. Nobody really likes reading IT books they just want to know how to do X, Y or Z. With Practical Sql you will learn: How to Install Microsoft Sql Server.How to Create Databases, Tables.How to manage the data in tables.Functions to changes field values.Conditional Statements.Creating checks on the data that goes into the table.Database Design rules.Using Triggers to create audit tables.How to use Transactions and Exceptions.Using and creating your own templates for faster development.and more... The examples within this book were created using Sql Server Express 2012. For other books by this author see: <http://techstuffy.com>

Dieses Buch ermöglicht den Einstieg in relationale Datenbanken und den Microsoft SQL Server 2012. Es zeigt DB-Entwicklern oder Nutzern aus dem Marketing und Controlling, wie sie mithilfe von T-SQL Daten abfragen, Tabellen verknüpfen und komplexe Analysen durchführen. Mithilfe von T-SQL und dem Management Studio lernt man, Tabellen anzulegen und dann mit T-SQL-Operationen Daten zu bearbeiten. Die Programmierung fortgeschrittener T-SQL-Skripte wird ebenfalls dargestellt. Die weiteren Bände dieser Reihe beschäftigen sich mit Implementierung, Administration und Programmierung, XML-Integration und Data Mining.

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 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 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 "

Your hands-on guide to Azure SQL Database fundamentals Expand your expertise—and teach yourself the fundamentals of Microsoft Azure SQL Database. If you have previous programming experience but are new to Azure, this tutorial delivers the step-by-step guidance and coding exercises you need to master core topics and techniques. Discover how to:

- Perform Azure setup and configuration
- Explore design and security considerations
- Use programming and reporting services
- Migrate data
- Backup and sync data
- Work with scalability and high performance
- Understand the differences between SQL Server and Microsoft Azure SQL Database

Breathe new life into older applications by refactoring T-SQL queries and code using modern techniques. This book shows you how to significantly improve the performance of older applications by finding common anti-patterns in T-SQL code, then rewriting those anti-patterns using new functionality that is supported in current versions of SQL Server, including SQL Server 2019. The focus moves through the different types of database objects and the code used to create them, discussing the limitations and anti-patterns commonly found for each object type in your database. Legacy code isn't just found in queries and external applications. It's also found in the definitions of underlying database objects such as views and tables. This book helps you quickly find problematic code throughout the database and points out where and how modern solutions can replace older code, thereby making your legacy applications run faster and extending their lifetimes. Author Lisa Bohm explains the logic behind each anti-pattern, helping you understand why each pattern is a problem and showing how it can be avoided. Good coding habits are discussed, including guidance on topics such as readability and maintainability. What You Will Learn

- Find specific areas in code to target for performance gains
- Identify pain points quickly and understand why they are problematic
- Rewrite legacy T-SQL to reduce or eliminate hidden

performance issues Write modern code with an awareness of readability and maintainability Recognize and correlate T-SQL anti-patterns with techniques for better solutions Make a positive impact on application user experience in your organization Who This Book Is For Database administrators or developers who maintain older code, those frustrated with complaints about slow code when there is so much of it to fix, and those who want a head start in making a positive impact on application user experience in their organization

Transact-SQL' ('T-SQL') is Microsoft's and Sybase's exclusive addition to SQL. SQL, the abbreviation for Structured Query Language, is a standardized computer lingo that was initially elaborated by IBM for querying, changing and determining relational databases, utilizing declarative declarations. T-SQL enlarges on the SQL normal to contain procedural program design, native factors, different aid purposes for string handling, date handling, arithmetics, etcetera. And amends to the Delete (SQL)DELETE and upgrade (SQL)UPDATE declarations. There has never been a Transact-SQL Guide like this. It contains 30 answers, much more than you can imagine; comprehensive answers and extensive details and references, with insights that have never before been offered in print. Get the information you need--fast! This all-embracing guide offers a thorough view of key knowledge and detailed insight. This Guide introduces what you want to know about Transact-SQL. A quick look inside of some of the subjects covered: Microsoft SQL Server, T-SQL - BULK INSERT, Wildcard character - Databases, Comment (computer programming) SQL, Sigil (computer programming) - Historical context, T-SQL - Changes to DELETE and UPDATE statements, MS SQL, SQL Server 2000, Sys.sysobjects, SQL Server Notification Services - Extensibility and Programmability, .NET Framework version history - Changes in 2.0 in comparison with 1.1, At sign - Computer programming, SQL Server 2008, SQL Server 2008 R2, Microsoft Data Access Components - Remote Data Services (RDS), SQL Server 2005, TSQL, PL/SQL - Similar languages, Database administrator - Skills, T-SQL - Variables, Alphabetical list of programming languages - T, Transact-SQL, SQL Server 2012, Microsoft SQL Server 2008, User-defined function - SQL Server 2000, Microsoft SQL Server - T-SQL, Universally unique identifier - Implementations, Sybase - History, Printf format string - Programming languages with printf, and much more...

This is the industry's most comprehensive and useful guide to SQL Server 2008 and 2008 R2. It presents start-to-finish coverage of SQL Server's core database server and management capabilities, plus complete introductions to Integration, Reporting, and Analysis Services, application development, and much more. Four expert SQL Server administrators, developers, and consultants have packed this book with real-world information, tips, guidelines, and samples drawn from their own extensive experience creating and managing complex database solutions. Writing for intermediate-to-advanced-level SQL Server professionals, they focus on the product's most complex and powerful

capabilities, and its newest tools and features. For example, you'll find invaluable information on administering SQL Server more efficiently, analyzing and optimizing queries, implementing data warehouses, ensuring high availability, and tuning performance. The accompanying CD-ROM contains an extraordinary library of practical tools and information including sample databases and all code examples. Whether you're responsible for SQL Server 2008 analysis, design, implementation, support, administration, or troubleshooting, no other book offers you this much value. Understand the Microsoft SQL Server 2008 environment, R2's newest features, and each edition's capabilities Manage SQL Server 2008 more effectively with SQL Server Management Studio, the SQLCMD command-line query tool, and Powershell Efficiently manage security, users, backup/restore, replication, Database Mail, and database objects—from tables and indexes to stored procedures and triggers Increase availability with clustering, database mirroring, and other features Use new Policy-Based Management to centrally configure and operate SQL Server throughout the organization Use SQL Server Profiler to capture queries and identify bottlenecks Improve performance by optimizing queries, design more effective databases, and manage workloads with the new Resource Governor Develop applications using SQL Server 2008's enhancements to T-SQL and SQLCLR, .NET integration, LINQ to SQL, XML, and XQuery Make the most of Analysis Services, Integration Services, and Reporting Services—especially Microsoft's new R2 reporting improvements Improve data security using Column-level and Transparent Data Encryption CD-ROM includes: 15 additional chapters Code samples, scripts, and databases utilized within the book Free version of SQL Shot (performance & tuning software) In *Advanced Transact-SQL for SQL Server 2000*, authors Itzik Ben-Gan and Thomas Moreau explore the powerful capabilities of Transact-SQL (T-SQL). Ben-Gan and Moreau offer solutions to common problems encountered using all versions of SQL Server, with a focus on the latest version, SQL Server 2000. Expert tips and real code examples teach advanced database programmers to write more efficient and better-performing code that takes full advantage of T-SQL. The authors offer practical solutions to the everyday problems programmers face and include in-depth information on advanced T-SQL topics such as joins, subqueries, stored procedures, triggers, user-defined functions (UDFs), indexed views, cascading actions, federated views, hierarchical structures, cursors, and more.

Advance your career as an SQL Server developer and DBA KEY FEATURES ? Cutting-edge coverage from community experts to learn T-SQL programming. ? Detailed explanation of concepts and techniques for easy understanding. ? Numerous practical demonstrations of T-SQL querying and programming applications. DESCRIPTION This book will teach you the fundamentals of SQL, SQL Server, databases, and how to write queries and programs using T-SQL. After reading this book, you will be able to create, modify, and delete databases, tables, and indexes. You can practice querying the data and running complex analytics on it. You will also be able to add, delete, and modify procedures, user-

defined functions, triggers, and views. The journey of learning T-SQL with this book begins with an understanding of SQL and database fundamentals. You'll explore the SQL Server Management Studio (SSMS) used for developing and managing SQL Server databases. You'll then learn how to use DDL statements to create, modify and delete tables and indexes. Gradually, you'll be able to query in T-SQL using DML statements, joins, and various built-in functions.

Successively, you'll learn XML and JSON data processing, and by the time you'll reach the end of this book, you will learn to program in SQL Server and various strategies to deploy your databases and programs. Throughout the book, you'll learn through simple examples and straightforward explanations, diagrams, and numerous real-world use-cases.

WHAT YOU WILL LEARN ? Concise understanding of relational databases and the SQL Server. ? Learn how to create database tables and indexes using T-SQL. ? Learn to add, modify, and delete records. ? Practice how to slice and dice data by running smart T-SQL queries. ? Perform advanced analytical analysis using various functions. ? Discover Error Handling and Transaction Management. ? Administer XML and JSON handling with T-SQL. ? Practice different deployment modes for T-SQL objects.

WHO THIS BOOK IS FOR If you want to know how to design, develop, and maintain SQL Server databases and run sophisticated T-SQL queries without much hassle, this book is for you. Readers with a basic understanding of programming would have an advantage.

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Even if you have little or no knowledge of T-SQL, *Beginning T-SQL 2008* will bring you up to intermediate level and teach you best practices along the way. You'll learn how to write code that will help you to achieve the best-performing applications possible. You'll find an introduction to databases, normalization, and SQL Server Management Studio. You'll understand how data is stored in a database and learn how to use at least one of the available tools to get to that data. Each subsequent chapter teaches an aspect of T-SQL, building on the skills learned in previous chapters. Exercises are included in each chapter because the only way to learn T-SQL is to write some code. This book will do more than just give the syntax and examples. It will teach you techniques to help you avoid common errors and create robust and well-performing code. Imparts best practices for writing T-SQL Helps readers avoid common errors Shows how to write scalable code that yields good performance

Beginning Transact-SQL with SQL Server 2000 and 2005 Transact-SQL is a powerful implementation of the ANSI standard SQL database query language. In order to build effective database applications, you must gain a thorough

understanding of these features. This book provides you with a comprehensive introduction to the T-SQL language and shows you how it can be used to work with both the SQL Server 2000 and 2005 releases. Beginning with an overview of the SQL Server query operations and tools that are used with T-SQL, the author goes on to explain how to design and build applications of increasing complexity. By gaining an understanding of the power of the T-SQL language, you'll be prepared to meet the ever-increasing demands of programming. What you will learn from this book

- How T-SQL provides you with the means to create tools for managing hundreds of databases
- Various programming techniques that use views and stored procedures
- Ways to optimize query performance
- How to create databases that will be an essential foundation to applications you develop later

Who this book is for This book is for database developers and administrators who have not yet programmed with Transact-SQL. Some familiarity with relational databases and basic SQL is helpful, and some programming experience is helpful. Wrox Beginning guides are crafted to make learning programming languages and technologies easier than you think, providing a structured, tutorial format that will guide you through all the techniques involved.

T-SQL is the fundamental language for database programming in SQL Server 2005. All professional SQL Server users need a convenient single source of information and advice. This book provides that, clearly and comprehensively. Both database administrators and developers will find this highly readable, detailed description of T-SQL an eye-opening and invaluable reference for as long as they work with SQL Server 2005.

Master the foundations of T-SQL with the right balance of conceptual and practical content. Get hands-on guidance—including exercises and code samples—that show you how to develop code to query and modify data. You'll gain a solid understanding of the T-SQL language and good programming practices, and learn to write more efficient and powerful queries. Discover how to:

- Apply T-SQL fundamentals, create tables, and define data integrity
- Understand logical query processing
- Query multiple tables using joins and subqueries
- Simplify code and improve maintainability with table expressions
- Explore pivoting techniques and how to handle grouping sets
- Write code that modifies data
- Isolate inconsistent data and address deadlock and blocking scenarios

Beginning T-SQL 2012 is the first step toward learning the T-SQL language that underlies Microsoft's SQL Server database engine. T-SQL is essential in writing SQL statements to get data into and out of a database. T-SQL is the foundation for business logic embedded in the database in the form of stored procedures and functions. Beginning T-SQL 2012 starts you on the path to mastering T-SQL, with an emphasis on best practices and sound coding techniques. Beginning T-SQL 2012 begins with an introduction to databases, normalization, and to SQL Server Management Studio. Each subsequent chapter teaches an aspect of T-SQL, building on the skills learned in previous chapters. Exercises in each chapter give readers an opportunity for the hands-on practice that leads to true learning and distinguishes the competent professional. Imparts best practices for writing T-SQL Helps you avoid common errors Shows how to write scalable code for good

performance

SQL Server 2008 introduces many new features that will change database administration procedures; many DBAs will be forced to migrate to SQL Server 2008. This book teaches you how to develop the skills required to successfully administer a SQL Server 2008 database; no prior experience is required. The material covers system installation and configuration/architecting, implementing and monitoring security controls, configuring and managing network communications, automating administration tasks, disaster prevention and recovery, performance monitoring, optimizing and ensuring high availability, as well as major SQL Server 2008 components including Integration Services, Reporting Services, Analysis Services, and Service Broker.

Enhance Your Resume by Learning SQL. Did You Know? -Knowledge of SQL is an important skill to display on your resume. -With the growth of digital information, Database Administrator is one of the fastest growing careers. -SQL can be learned in hours and used for decades. Learn to script Transact SQL using Microsoft SQL Server. -Create tables and databases -select records -filter -sort -join tables -create views, stored procedures and more. Over 100 examples of SQL queries and statements along with images of results will help you learn T SQL. A special section included in this illustrated guide will help you test your skills and get ahead in the workplace. Now is the time to learn SQL. Click the 'buy button' and start scripting SQL TODAY!

Inhalt Dieses Buch ermöglicht den Einstieg in relationale Datenbanken und den Microsoft SQL Server 2014. Es zeigt DB-Entwicklern oder Nutzern aus dem Marketing und Controlling, wie sie mit Hilfe von T-SQL Daten abfragen, Tabellen verknüpfen und komplexe Analysen durchführen. Mit Hilfe von T-SQL und dem Management Studio lernt man, Tabellen anzulegen und dann mit T-SQL-Operationen Daten zu bearbeiten. Die Programmierung von fortgeschrittenen T-SQL-Skripten wird ebenfalls dargestellt. Als Beispiel dient die umfassende AdventureWorks-Datenbank. Themen Grundlagen relationaler Datenbanken Übersicht zum MS SQL Server-System und seinen Werkzeugen Einfache und komplexe Abfragen mit T-SQL T-SQL-Operationen für DB-Objekte und Datenpflege Fortgeschrittene Analysen und Auswertungen T-SQL-Skripte mit Variablen, Fallunterscheidungen, Cursors und Transaktionen Pivot, berichtsähnliche Abfragen und T-SQL-Funktionen Internet Auf der Webseite zum Buch finden Sie alle T-SQL-Dateien zum Download. Die Beispiel-DB AdventureWorks ist beim Codeplex-Portal verfügbar. Zielgruppe Das Buch richtet sich an SQL Server-Anwender/innen, die nicht nur aus dem Bereich IT kommen müssen, sondern auch im Marketing und Controlling arbeiten und nun T-SQL lernen und nutzen wollen. Dabei stehen bei Ihnen die Abfrage von Daten mit T-SQL und die tiefer gehende Analyse mit T-SQL-Funktionen im Vordergrund. Grundlegendes Interesse an T-SQL-Skript-Entwicklung sollte auch vorhanden sein. Für Neueinsteiger/innen auf dem Gebiet der relationalen Datenbanken gibt es eine allgemeine Einführung in Datenbankdesign und den Aufbau einer relationalen Datenbank. Autor Marco Skulschus und Marcus Wiederstein arbeiten als Projektleiter, Microsoft Certified Trainer und Berater bei der Comelio GmbH. Sie haben zusammen im Datenbankbereich bereits Bücher zu MS SQL Server und zu Oracle veröffentlicht sowie vielseitig über XML geschrieben. Sie beschäftigen sich seit der Version 2000 mit dem MS SQL Server für betriebswirtschaftliche Anwendungen und Business Intelligence-Systemen.

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 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

Have you heard that SQL is hard to learn? Are you looking to enhance your skills and resume? Are you new to programming languages?

This is Transact SQL – To The Point! Gain the fundamentals you will need to query your databases using Transact SQL in Microsoft SQL Server. Learn how to: • extract • update • and delete records in tables • create databases • create tables • ... and more. Illustrated examples and a special section for test questions will reinforce your new knowledge of SQL.

If you've not programmed with Transact-SQL, this book is for you. It begins with an overview of SQL Server query operations and tools used with T-SQL, and covers both the 2005 and 2008 releases of SQL Server query tools and the query editor. The book then moves to show you how to design and build applications of increasing complexity. Other important tasks covered include full text indexing, optimizing query performance, and application design and security considerations. The companion website also provides all of the code examples from the book.

Provides information on the architecture of the T-SQL programming language.

Get a detailed look at the internal architecture of T-SQL with this comprehensive programming reference. Database developers and administrators get best practices, expert techniques, and code samples to master the intricacies of this programming language—solving complex problems with real-world solutions. Discover how to: Work with T-SQL and CLR user-defined functions, stored procedures, and triggers. Handle transactions, concurrency, and error handling. Efficiently use temporary objects, including temporary tables, table variables, and table expressions. Evaluate when to use set-based programming techniques and when to use cursors. Work with dynamic SQL in an efficient and secure manner. Treat date- and time-related data in a robust manner. Develop CLR user-defined types and learn about temporal support in the relational model. Use XML and XQuery and implement a dynamic schema solution. Work with spatial data using the new geometry and geography types and spatial indexes. Track access and changes to data using extended events, SQL Server Audit, change tracking, and change data capture. Use Service Broker for controlled asynchronous processing in database applications. All the book's code samples will be available for download from the companion Web site.

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 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 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 Create and modify databases and keep them secure Get up to speed on using T-SQL to store and manipulate data SQL Server 2005 improves an already great database management system. This book shows you how to put it to work in a hurry. You'll find out how to use the SQL Server Management Studio and the SQLCMD utility to write T-SQL code, retrieve data from single or multiple SQL Server tables, add data using the INSERT statement, and much more. * Create queries to retrieve data * Ensure SQL Server security * Use Visual Studio(r) 2005 with SQL Server * Create tables, views, and indexes * Work with Common Language Runtime * Query XML data Troubleshoot query performance issues, 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 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) 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 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 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.

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

Beginning T-SQL is a performance-oriented introduction to the T-SQL language underlying the Microsoft SQL Server database engine. T-SQL is essential in writing SQL statements to get data into and out of a database. T-SQL is the foundation for business logic embedded in the database in the form of stored procedures and functions. Beginning T-SQL starts you on the path to mastering T-SQL, with an emphasis on best-practices and sound coding techniques leading to excellent performance. This new edition is updated to cover the essential features of T-SQL found in SQL Server 2014, 2012, and 2008. Beginning T-SQL begins with an introduction to databases, normalization, and to SQL Server Management Studio. Attention is given to Azure SQL Database and how to connect to remote databases in the cloud. Each subsequent chapter teaches an aspect of T-SQL, building on the skills learned in previous chapters. Exercises in most chapters provide an opportunity for the hands-on practice that leads to true learning and distinguishes the competent professional. Important techniques such as windowing functions are covered to help write fast executing queries that solve real business problems. A stand-out feature in this book is that most chapters end with a "Thinking

About Performance" section. These sections cover aspects of query performance relative to the content just presented. They'll help you avoid beginner mistakes by knowing about and thinking about performance from Day 1. Imparts best practices for writing T-SQL Helps you avoid common errors Shows how to write scalable code for good performance Der MS SQL Server bietet eine umfassende Unterstützung von XML-Technologien. Dieses Buch zeigt DB-Entwicklern/-Administratoren, wie sie mit Hilfe von T-SQL DB-basierte XML-Schnittstellen entwerfen oder XML und relationale Strukturen mischen können. Man lernt, aus relationalen Daten XML-Daten in T-SQL zu erzeugen, diese Daten zu verarbeiten oder wieder relational zu zerlegen. Weitere Themen sind direkte XML-Speicherung und die Arbeit mit XQuery, XSLT und XML Schema in der Datenbank. Ein kleiner Teil des Buchs stellt die Grundlagen in den verwendeten XML-Technologien dar.

Sams Teach Yourself Microsoft SQL Server T-SQL in 10 Minutes offers straightforward, practical answers when you need fast results. By working through 10-minute lessons, you'll learn everything you need to know to take advantage of Microsoft SQL Server's T-SQL language. This handy pocket guide starts with simple data retrieval and moves on to more complex topics, including the use of joins, subqueries, full text-based searches, functions and stored procedures, cursors, triggers, table constraints, XML, and much more. You'll learn what you need to know methodically, systematically, and simply—in highly focused lessons designed to make you immediately and effortlessly productive. Tips point out shortcuts and solutions Cautions help you avoid common pitfalls Notes explain additional concepts, and provide additional information 10 minutes is all you need to learn how to... Use T-SQL in the Microsoft SQL Server environment Construct complex T-SQL statements using multiple clauses and operators Filter data so you get the information you need quickly Retrieve, sort, and format database contents Join two or more related tables Make SQL Server work for you with globalization and localization Create subqueries to pinpoint your data Automate your workload with triggers Create and alter database tables Work with views, stored procedures, and more Register your book at www.sampublishing.com/register to download examples and source code from this book.

SQL Server is a leading Relational Database Management System by Microsoft. SQL Server supports the standard ANSI SQL (Structured Query Language). language. SQL Server also comes with its own implementation of the SQL language, T-SQL (Transact-SQL). Here is what is covered in the book – Chapter 1: What is SQL Server? Introduction, History, Editions, Instances 1. What is SQL Server? 2. History SQL Server 3. SQL Server Editions 4. MS SQL Server as Client-Server Architecture 5. Key Components and Services of SQL Server 6. SQL Server Instances 7. Importance of SQL Server Instances Chapter 2: How to Download and Install SQL Server 1. How to download SQL Server Setup 2. How to Install SQL Server Chapter 3: SQL Server Architecture Explained: Named Pipes, Optimizer, Buffer Manager 1. Protocol Layer - SNI 2. Relational Engine 3. Storage Engine Chapter 4: SQL Server Management Studio (SSMS): What is, Install, Versions 1. Download and Install SQL Server Management Studio 2. How to access ""Management Studio."" 3. Access ""Management studio"" using

Command line. 4. Introduction to Data Management Studio IDE 5. SSMS Tips and Issues 6. SSMS Versions and Updates Chapter 5: SQL Server Database: Create, Alter, Drop, Restore 1. Rules to Create a Database 2. Create Database using SQL Server Management Studio 3. Create Database with T-SQL 4. How to Alter Database 5. Alter Database with SQL Server Management Studio 6. Alter Database with Transact-SQL 7. Delete Database 8. Delete Database SQL Server Management Studio 9. Delete Database using Transact-SQL 10. Restore Database Chapter 6: SQL Server DataTypes: Varchar, Numeric, Date Time [T-SQL Examples] 1. What is Datatype? 2. Why use DataTypes? 3. Data type available in MS SQL Chapter 7: SQL Server Variable: Declare, Set, Select, Global,Local [TSQL Examples] 1. What is Variable? 2. Types of Variable: Local, Global 3. How to DECLARE a variable 4. Assigning a value to a VARIABLE Chapter 8: SQL Server Table: CREATE, ALTER, DROP [T-SQL Examples] 1. What is a Table? 2. How to Create a Table 3. Alter Table 4. Delete Table Chapter 9: SQL Server PRIMARY KEY: T-SQL Examples 1. What is a Primary Key? 2. How to Create Primary Key Chapter 10: SQL Server FOREIGN KEY: T-SQL Examples 1. What is a Foreign Key? 2. How to Create Foreign Key Chapter 11: SQL Server IF...ELSE Statement: T-SQL Example 1. IF... Else statement 2. IF statement with No Else 3. Nested IF...Else Statements Chapter 12: CASE statement in SQL Server: T-SQL Example 1. Overview of Case in real life! 2. What is CASE? 3. Simple CASE 4. Searched CASE 5. Difference between Simple and searched case 6. Nested CASE: CASE in IF ELSE 7. Nested CASE: CASE inside CASE 8. CASE with UPDATE 9. CASE with Order by Chapter 13: SQL Server SUBSTRING() Function: T-SQL Example Chapter 14: SQL SERVER JOINS Tutorial: INNER, LEFT, RIGHT, OUTER Chapter 15: Create Login, User, assign Permission: SQL Server Tutorial 1. How to Create a Login 2. How to create a User 3. Assigning Permission to a User Chapter 16: Oracle Vs. SQL Server: Key Differences 1. What is Microsoft SQL server? 2. What is Oracle Database? 3. Early History of Microsoft SQL: 4. Early History of Oracle: 5. Features of Microsoft SQL Server 6. Features of Oracle 7. Difference between SQL Server and Oracle Chapter 17: SSIS Tutorial for Beginners: What is, Architecture, Best Practices 1. What Is SSIS? 2. Why we use SSIS? 3. History of SIS 4. SSIS Salient Features 5. SSIS Architecture 6. SSIS Tasks Types 7. Other Important ETL tools 8. Advantages and Disadvantages of using SSIS 9. Disadvantages of SSIS 10. SSIS Best Practices Click the BUY button now and download the book now to start learning UML. Learn it fast and learn it well. Pick up your copy today by clicking the BUY NOW button at the top of this page!

Inhalt Der MS SQL Server ist die Standard-DB für .NET-Anwendungen und Microsoft-basierte Systeme. Dieses Buch zeigt DB-Entwicklern und DB-Administratoren, wie sie mit Hilfe von T-SQL und MS SQL Server-Tools eine Datenbank und DB-Objekte aufbauen und verwalten sowie DB-interne Logik mit Prozeduren, Funktionen und Triggern implementieren. Administrationsaufgaben wie Optimierung und Tuning, Sicherheit und Backup/Recovery werden ebenfalls behandelt. Zielgruppe Das Buch richtet sich an IT-Fachanwender/innen und DB-Entwickler/innen, die den MS SQL Server einrichten und administrieren wollen sowie mit T-SQL programmierbare Objekte wie Prozeduren, Funktionen und Trigger in der Datenbank erstellen wollen. Sie können bereits mit T-SQL Abfragen und Analysen durchführen und haben Grundkenntnisse des SQL Servers und des relationalen Modells. Themen Übersicht zum MS SQL Server-System und seinen Werkzeugen T-SQL für DB-Objekte, ihre Verwaltung und ihre Speicherstrukturen T-SQL für Funktionen, Prozeduren und Trigger Optimierung und Tuning von Abfragen und Strukturen Administration, Betrieb und Sicherheit Backup und Recovery Administration über Tools und T-SQL Internet Auf der Webseite zum Buch finden Sie alle T-SQL-Dateien zum Download. Die Beispiel-DB AdventureWorks ist beim Codeplex-Portal verfügbar. Autor Marco Skulschus (MCDBA, MCSD) und Marcus Wiederstein (MCDBA, MCSD, MCSE) arbeiten als Projektleiter, Trainer und Berater bei der Comelio GmbH. Sie haben zusammen im Datenbankbereich bereits Bücher zu MS SQL Server und zu Oracle veröffentlicht. Sie beschäftigen sich seit der Version 2000 mit dem MS SQL Server für betriebswirtschaftliche Anwendungen und Business Intelligence-

Systeme. Verlag Comelio Medien gehört zur Comelio GmbH, einem international arbeitenden IT-Systemhaus. Er bietet den Mitarbeitern der Comelio GmbH und externen Autoren die Gelegenheit, Themenbereiche aus ihren Aufträgen in den Bereichen Beratung, Entwicklung oder Schulung in Buchform aufzubereiten. Comelio bietet betriebswirtschaftliche Software und Business Intelligence sowie IT-Offshoring an. Das erste Kapitel zeigt, wie man eine Datenbank und ihre Bestandteile einrichtet. Hierunter fallen die Datenbank selbst und natürlich Tabellen und ihre Bestandteile wie Spalten und Schlüssel für Tabellen bzw. Verknüpfungen zwischen den Tabellen. Große Datenbanken erfordern es, dass Daten nicht in der gleichen Datenbank-Datei gespeichert werden, sondern dass man spezialisierte Speicherstrukturen (Dateien in Dateigruppen) erstellt und dafür entweder nach und nach oder schon zu Beginn die entsprechenden Objekte erstellt. Sie lernen, wie Sie diese Strukturen sowohl über T-SQL und auch über die grafischen Werkzeuge erstellen und verwalten können. Das zweite Kapitel zeigt, wie man mit T-SQL und in Maßen auch über die Oberfläche Daten in der Datenbank pflegt, d.h. Daten einfügt, ändert und auch wieder löscht. Dazu gehört es auch, Daten massenweise zu importieren und zu exportieren, wozu der MS SQL Server verschiedene grafische Werkzeuge und sogar ein eigenes Modul in Form der Integration Services bereit stellt. Sie lernen diese Werkzeuge kennen und verwenden. Das dritte Kapitel beschäftigt sich mit der Optimierung der Datenbank und vermittelt Ihnen die Konzepte von Indizierung und Tuning. Dazu zählt auch, die Datenbank auf ihre Leistung hin zu analysieren und die geschätzten und tatsächlichen Ausführungspläne von Abfragen zu verwenden. Der MS SQL Server stellt für diese Fragestellungen einmal einen Optimierungsratgeber (Database Tuning Advisor) und für die Abfrage eine Visualisierung der SQL-Ausführung bereit. Über die Oberfläche des Management Studios und natürlich auch mit T-SQL kann man dann die notwendigen Maßnahmen ergreifen, um die Datenbank optimal aufzubauen oder nachträglich zu verbessern. Das vierte Kapitel konzentriert sich auf die Darstellung einiger wesentlicher administrativer Aspekte wie das Sicherheitskonzept des MS SQL Servers. Sie lernen die Elemente wie Anmeldung, Benutzer und Rolle kennen und sehen, wie Sie diese Elemente über die Oberfläche und T-SQL erstellen. Darüber hinaus sehen Sie in verschiedenen Beispielen, wie sich Sicherheitseinstellungen bei der Verwendung der Datenbank für die Benutzer auswirkt. Das fünfte Kapitel bietet eine Einführung in die SQL-Erweiterung von MS SQL Server mit dem Namen Transact SQL (T-SQL). Zwar gibt es in den vorherigen Kapiteln bereits verschiedene Beispiele, die mit einfachen Mitteln von T-SQL operieren, doch die Erstellung von Variablen, die Verwendung und die Auswahl von geeigneter Datentypen, die Erstellung und Nutzung von Cursors, die Behandlung von Fehlern oder anderen allgemeinen Programmiertechniken ist diesem Kapitel vorbehalten. Das sechste Kapitel setzt die Themen aus dem vorherigen Kapitel fort und zeigt Ihnen, wie Sie mit Hilfe von T-SQL nicht nur ausführbare Skripte entwickeln, sondern programmierbare Objekte erstellen: Funktionen und Prozeduren. Diese lassen sich dann entweder in größeren T-SQL Anwendungen nutzen oder im Falle von Funktionen direkt in T-SQL-Abfragen oder im Falle von Prozeduren auch aus Programmiersprachen wie .NET, Java und PHP. Die Datenbank bietet somit nicht nur Daten, sondern auch bis zu einem gewissen Grad die Verarbeitungslogik für diese Daten. Das siebte Kapitel greift noch einmal die Entwicklung von Verarbeitungslogik auf, wobei hier die Automatisierung von administrativen Aufgaben oder bei der Datenpflege im Vordergrund steht. Sie sehen also, wie man mit T-SQL Trigger programmiert, die auf vorab definierte Ereignisse reagieren, oder Datenbank-Jobs einrichten, die zeitgesteuert ablaufen und entweder einzelne T-SQL Kommandos oder Prozeduren ausführen können. 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 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 partitioning, ordering, and coverage indexing Apply new optimization iterators such as Window Spool Handle common issues such as running totals, intervals, medians, and gaps Harness the powerful new SQL Server 2012 Microsoft SQL Server 2012 is the most significant update to this product since 2005, and it may change how database administrators and developers perform many aspects of their jobs. If you're a database administrator or developer, Microsoft SQL Server 2012 Bible teaches you everything you need to take full advantage of this major release. This detailed guide not only covers all the new features of SQL Server 2012, it also shows you step by step how to develop top-notch SQL Server databases and new data connections and keep your databases performing at peak. The book is crammed with specific examples, sample code, and a host of tips, workarounds, and best practices. In addition, downloadable code is available from the book's companion web site, which you can use to jumpstart your own projects. Serves as an authoritative guide to Microsoft's SQL Server 2012 for database administrators and developers Covers all the software's new features and capabilities, including SQL Azure for cloud computing, enhancements to client connectivity, and new functionality that ensures high-availability of mission-critical applications Explains major new changes to the SQL Server Business Intelligence tools, such as Integration, Reporting, and Analysis Services Demonstrates tasks both graphically and in SQL code to enhance your learning Provides source code from the companion web site, which you can use as a basis for your own projects Explores tips, smart workarounds, and best practices to help you on the job Get thoroughly up to speed on SQL Server 2012 with Microsoft SQL Server 2012 Bible.

Sams Teach Yourself Microsoft SQL Server T-SQL in 10 Minutes, Second Edition is the only compact, hands-on introduction to T-SQL, this guide is now fully updated through SQL Server 2016 and the newest version of SQL Server Express. Building on his global best-seller Sams Teach Yourself SQL in 10 Minutes, Ben Forta covers all you need to know to successfully use T-SQL in any database development or DBA role -- including everything that makes T-SQL different from standard SQL. Through carefully-structured, highly-focused lessons, Forta guides you from simple data retrieval through complex topics, helping you become productive quickly and painlessly. Coverage includes: Working with T-SQL in modern SQL Server environments Retrieving data, and then sorting and filtering it Performing wildcard filtering and using advanced data filtering techniques Creating calculated fields Using data manipulation functions Summarizing and grouping data Building subqueries, joining tables, and combining queries Inserting, updating, and deleting data Creating and manipulating tables Using views Programming with T-SQL Working with stored procedures, cursors, and triggers Managing transaction processing Working with Internet formats Globalizing and localizing T-SQL code Optimizing security and performance

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