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This is not an ordinary SQL Server Book. SQL Server MVP Deep Dives brings together the world's most highly-regarded SQL Server experts to create a masterful collection of tips, techniques, and experience-driven best practices for SQL Server development and administration. These SQL Server MVPs-53 in all-each selected a topic of great interest to them, and in this unique book, they share their knowledge and passion with you. SQL Server MVP Deep Dives is organized into five parts: Design and Architecture, Development, Administration, Performance Tuning and Optimization, and Business Intelligence. Within each part, you'll find a collection of brilliantly concise and focused chapters that take on key topics like mobile data strategies, Dynamic Management Views, or query performance. The range of subjects covered is comprehensive, from database design tips to data profiling strategies for BI. Additionally, the authors of this book have generously donated 100% of their royalties to support War Child International. War Child International is a network of independent organizations, working across the world to help children affected by war. War Child was founded upon a fundamental goal: to advance the cause of peace through investing hope in the lives of children caught up in the horrors of war. War Child works in many different conflict areas around the world, helping hundreds of thousands of children every year. Visit www.warchild.org for more information.

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Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book.

Once you know the basics of the SQL language, it's time to take the next step toward specialization: query writing! All objects in SQL support the need to get data in and out of databases, and writing queries is the key to capturing the data you want. "SQL Queries 2012 Joes 2 Pros Volume 2" shows you a proven roadmap that has helped many beginning SQL students get their certifications and launch their careers. If you want to get ready for MCTS certification, this is the second book of the Joes 2 Pros series. This book is totally focused on providing a fun, hands-on experience as it evolves your basic SQL skills and amps up your level of query writing expertise. This is Volume II of the Joes 2 Pros certification track designed to prepare you for the 70-461 SQL 2012 exam. If you are a total beginner, we recommend you first become familiar with the material in the "Beginning SQL Joes 2 Pros." For those of you who have read the 2008 series for the 70-433 Exam you will find a lot of the same material from the SQL 2008 book in this SQL 2012 book. This is because much of the 70-461 test covers the same material as the 70-433. I have added material that is new to the test and removed material that is no longer relevant. If you have already read this series or have already passed the 70-433 exam you may choose to read my book which covers only the changes from 70-433 to 70-461 entitled "SQL 2012 Querying, what's new and Cool".

SQL is full of difficulties and traps for the unwary. You can avoid them if you understand relational theory, but only if you know how to put the theory into practice. In this insightful book, author C.J. Date explains relational theory in depth, and demonstrates through numerous examples and exercises how you can apply it directly to your use of SQL. This second

edition includes new material on recursive queries, “missing information” without nulls, new update operators, and topics such as aggregate operators, grouping and ungrouping, and view updating. If you have a modest-to-advanced background in SQL, you’ll learn how to deal with a host of common SQL dilemmas. Why is proper column naming so important? Nulls in your database are causing you to get wrong answers. Why? What can you do about it? Is it possible to write an SQL query to find employees who have never been in the same department for more than six months at a time? SQL supports “quantified comparisons,” but they’re better avoided. Why? How do you avoid them? Constraints are crucially important, but most SQL products don’t support them properly. What can you do to resolve this situation? Database theory and practice have evolved since the relational model was developed more than 40 years ago. SQL and Relational Theory draws on decades of research to present the most up-to-date treatment of SQL available. C.J. Date has a stature that is unique within the database industry. A prolific writer well known for the bestselling textbook *An Introduction to Database Systems* (Addison-Wesley), he has an exceptionally clear style when writing about complex principles and theory.

Microsoft PowerPivot is a free add-on to Excel from Microsoft that allows users to produce new kinds of reports and analyses that were simply impossible before, and this book is the first to tackle DAX formulas, the core capability of PowerPivot, from the perspective of the Excel audience. Written by the world's foremost PowerPivot blogger and practitioner, the book's concepts and approach are introduced in a simple, step-by-step manner tailored to the learning style of Excel users everywhere. The techniques presented allow users to produce, in hours or even minutes, results that formerly would have taken entire teams weeks or months to

produce. It includes lessons on the difference between calculated columns and measures; how formulas can be reused across reports of completely different shapes; how to merge disjointed sets of data into unified reports; how to make certain columns in a pivot behave as if the pivot were filtered while other columns do not; and how to create time-intelligent calculations in pivot tables such as "Year over Year" and "Moving Averages" whether they use a standard, fiscal, or a complete custom calendar. The "pattern-like" techniques and best practices contained in this book have been developed and refined over two years of onsite training with Excel users around the world, and the key lessons from those seminars costing thousands of dollars per day are now available to within the pages of this easy-to-follow guide. This updated second edition covers new features introduced with Office 2015.

Get up to speed on the extensive changes to the newest release of Microsoft SQL Server The 2012 release of Microsoft SQL Server changes how you develop applications for SQL Server. With this comprehensive resource, SQL Server authority Robert Vieira presents the fundamentals of database design and SQL concepts, and then shows you how to apply these concepts using the updated SQL Server. Publishing time and date with the 2012 release, Beginning Microsoft SQL Server 2012 Programming begins with a quick overview of database design basics and the SQL query language and then quickly proceeds to show you how to implement the fundamental concepts of Microsoft SQL Server 2012. You'll explore the key additions and changes to this newest version, including conditional action constructs, enhanced controls for results paging, application integration with SharePoint and Excel, and development of BI applications. Covers new features such as SQL Azure for cloud computing, client-connectivity enhancements, security

and compliance, data replication, and data warehouse performance improvements Addresses essential topics including managing keys, writing scripts, and working with store procedures Shares helpful techniques for creating and changing tables, programming with XML, and using SQL Server Reporting and Integration Services Beginning Microsoft SQL Server 2012 Programming demystifies even the most difficult challenges you may face with the new version of Microsoft SQL Server.

Companies and institutions depend more than ever on the availability of their Information Technology, and most mission critical business processes are IT-based. Business Continuity is the ability to do business under any circumstances and is an essential requirement faced by modern companies. Both concepts - High Availability and Disaster Recovery - are realized by redundant systems. This book presents requirements, concepts, and realizations of redundant systems on all abstraction levels, and all given examples refer to UNIX and Linux Systems.

Perfectly intelligent programmers often struggle when forced to work with SQL. Why? Joe Celko believes the problem lies with their procedural programming mindset, which keeps them from taking full advantage of the power of declarative languages. The result is overly complex and inefficient code, not to mention lost productivity. This book will change the way you think about the problems you solve with SQL programs.. Focusing on three key table-based techniques, Celko reveals their power through detailed examples and clear explanations. As you master these techniques, you'll find you are able to conceptualize problems as rooted in sets and solvable through declarative programming. Before long, you'll be coding more quickly, writing more efficient code, and applying the full power of SQL • Filled with the insights of one of the world's leading SQL authorities - noted for his

knowledge and his ability to teach what he knows. • Focuses on auxiliary tables (for computing functions and other values by joins), temporal tables (for temporal queries, historical data, and audit information), and virtual tables (for improved performance). • Presents clear guidance for selecting and correctly applying the right table technique.

Get complete instructions for manipulating, processing, cleaning, and crunching datasets in Python. Updated for Python 3.6, the second edition of this hands-on guide is packed with practical case studies that show you how to solve a broad set of data analysis problems effectively. You'll learn the latest versions of pandas, NumPy, IPython, and Jupyter in the process. Written by Wes McKinney, the creator of the Python pandas project, this book is a practical, modern introduction to data science tools in Python. It's ideal for analysts new to Python and for Python programmers new to data science and scientific computing. Data files and related material are available on GitHub. Use the IPython shell and Jupyter notebook for exploratory computing Learn basic and advanced features in NumPy (Numerical Python) Get started with data analysis tools in the pandas library Use flexible tools to load, clean, transform, merge, and reshape data Create informative visualizations with matplotlib Apply the pandas groupby facility to slice, dice, and summarize datasets Analyze and manipulate regular and irregular time series data Learn how to solve real-world data analysis problems with thorough, detailed examples

With SQL Queries 2012 Joes 2 Pros (r) Volume 5, you will learn how to integrate the data rich environments between SQL server and XML. The good news is we don't assume you know a single thing about XML and will start you off with introducing you to XML before writing any queries. For those of you who have read the 2008 series for the 70-433 Exam you will find a lot of the same material from the SQL 2008

book in this SQL 2012 book. This is because much of the 70-461 test covers the same material as the 70-433. I have added material that is new to the test and removed material that is no longer relevant. If you have already read this series or have already passed the 70-433 exam you may choose to read my book which covers only the changes from 70-433 to 70-461 entitled "Joes 2 Pros SQL 2012 Queries 70-461 Exam for SQL 2008 Pros"

Ace your preparation for Microsoft® Certification Exam 70-461 with this 2-in-1 Training Kit from Microsoft Press®. Work at your own pace through a series of lessons and practical exercises, and then assess your skills with practice tests on CD—featuring multiple, customizable testing options. Maximize your performance on the exam by learning how to:
Create database objects
Work with data
Modify data
Troubleshoot and optimize queries
You also get an exam discount voucher—making this book an exceptional value and a great career investment.

Beginning Database Design, Second Edition provides short, easy-to-read explanations of how to get database design right the first time. This book offers numerous examples to help you avoid the many pitfalls that entrap new and not-so-new database designers. Through the help of use cases and class diagrams modeled in the UML, you'll learn to discover and represent the details and scope of any design problem you choose to attack. Database design is not an exact science. Many are surprised to find that problems with their databases are caused by poor design rather than by difficulties in using the database management software. Beginning Database Design, Second Edition helps you ask and answer important questions about your data so you can understand the problem you are trying to solve and create a pragmatic design capturing the essentials while leaving the door open for refinements and extension at a later stage. Solid database

design principles and examples help demonstrate the consequences of simplifications and pragmatic decisions. The rationale is to try to keep a design simple, but allow room for development as situations change or resources permit. Provides solid design principles by which to avoid pitfalls and support changing needs Includes numerous examples of good and bad design decisions and their consequences Shows a modern method for documenting design using the Unified Modeling Language

The Common Table Expression (CTE) is one of the more powerful and often overlooked features in Microsoft SQL Server. This Joes 2 Pros book will show some of the more interesting things you can do with a CTE. We will learn how CTEs are a great alternative to derived table queries, how to do data paging with a CTE, and recursive queries with tree path and hierarchical output. This book will also cover how to use the DELETE, UPDATE, and INSERT statements with a CTE, and how to use CTEs in stored procedures and functions. We will discover what is good and bad with CTEs when it comes to performance, and how to avoid performance pitfalls. The twelve chapters take us from the most basic introduction of a CTE all the way to the more complex usage scenarios where a CTE can change the way you look at writing T-SQL queries. Learn how to use a single CTE or multiple CTEs in a single statement as well as nesting them. Your essential guide to key programming features in Microsoft SQL Server 2012 Take your database programming skills to a new level—and build customized applications using the developer tools introduced with SQL Server 2012. This hands-on reference shows you how to design, test, and deploy SQL Server databases through tutorials, practical examples, and code samples. If you're an experienced SQL Server developer, this book is a must-read for learning how to design and build effective SQL Server 2012 applications.

Discover how to: Build and deploy databases using the SQL Server Data Tools IDE Query and manipulate complex data with powerful Transact-SQL enhancements Integrate non-relational features, including native file streaming and geospatial data types Consume data with Microsoft ADO.NET, LINQ, and Entity Framework Deliver data using Windows Communication Foundation (WCF) Data Services and WCF RIA Services Move your database to the cloud with Windows Azure SQL Database Develop Windows Phone cloud applications using SQL Data Sync Use SQL Server BI components, including xVelocity in-memory technologies

As representatives from the IT community, all of us have had our own experiences of attending interviews - clearing or close to clearing and sometimes with tons of questions and doubts failing miserably. These stories are in the most pleasant or not so pleasant memories of our mind and we will assure you this book will kindle those memories for sure. We have taken tons of interviews and most of the interviews are not revolving around how deep technical and internals you know about the subject - but it revolves around how good you are with the basics. To clear an interview, one doesn't need to know inside-out of a subject, and subjects like "SQL Server" so vast that every single day we learn something new with this product, and even a complete lifetime will fly off if we keep doing this. Again, the various roles one can get into for products like SQL Server are from Database Developer, Database Modelers, Database Architect, Database Administrator and many more. Hence, this book is geared towards demystifying and a refresher for memories on the fundamentals which sometimes are the most important things to clear any type of interview for any role. Some of the concepts discussed are generic and are not tied to any specific version of SQL Server, but most of it the new features introduced with SQL Server have been included in this

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book. This book is not a shortcut or a sure to crack interview guide but this book gets you prepared in an organized manner. Let us also assure you this is neither a completely comprehensive guide but surely is a great starter nevertheless. Use this to guide you and be mentally prepared for the big day. When faced with this big day, we get overwhelmed and confused about where to start our preparation. And this book is just that secret recipe in your arsenal to get geared up. Sometimes these basics will help you narrow to a solution quickly when given a scenario. Now this book's flow is "Question & Answer" mode from start till the end to help you grasp the concepts faster and to the point. Once you get an understanding of concepts, then if we are twisted with the concept in a scenario it becomes easy to solve them. Most companies have a typical way to do interviews which are based on the scenario as per their environment and these are just combinations of the concepts to fit their need and SLA. Though each of these chapters is bucketed for convenience we highly recommend reading each of the sections nevertheless irrespective of the roles you might be doing as each of the sections have some interesting trivia's working with SQL Server. In the industry, the role of accidental DBA's especially with SQL Server is so common. Hence if you have performed the role of DBA for a short stint and want to brush-up your fundamentals then the respective sections will be a great skim.

Describes the basics of SQL, database design, and how to create a database using the SQL language.

Finally a book for the true SQL Server beginner! Whether you are brand new to data bases and are thinking of getting your 70-461 certification or already a semi-pro working in the field and need some fingertip support, this is this is the book for you. Joes 2 Pros does not assume you already know anything about data bases or SQL server. The Author, Rick

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Morelan, started out as a true beginner after he decided he had had enough of working on a fishing boat in Alaska. Rick struggled for years to acquire the knowledge necessary just to get his foot in the door. Many years later as an instructor, who was not happy with the instructional material available for his SQL students, he began the process of creating his own material. In 2009 Rick released his first book, "Beginning SQL Joes 2 Pros: The SQL Hands-On Guide for Beginners" for SQL 2008. Due to its clear writing style, easy to follow images and free downloadable labs it quickly became a top seller on Amazon. This book builds on the success of the previous series and will help anyone transform themselves from a beginner "Joe" into a SQL 2012 "Pro." For those of you who have read the 2008 series for the 70-433 Exam you will find a lot of the same material from the SQL 2008 book in this SQL 2012 book. This is because much of the 70-461 test covers the same material as the 70-433. I have added material that is new to the test and removed material that is no longer relevant. If you have already read this series or have already passed the 70-433 exam you may choose to read my book which covers only the changes from 70-433 to 70-461 entitled "Joes 2 Pros SQL 2012 Queries 70-461 Exam for SQL 2008 Pros."

Dive deep inside the architecture of SQL Server 2012 Explore the core engine of Microsoft SQL Server 2012--and put that practical knowledge to work. Led by a team of SQL Server experts, you'll learn the skills you need to exploit key architectural features. Go behind the scenes to understand internal operations for creating, expanding, shrinking, and moving databases--whether you're a database developer, architect, or administrator. Discover how to: Dig into SQL Server 2012 architecture and configuration Use the right recovery model and control transaction logging Reduce query execution time through proper index design Track events,

from triggers to the Extended Event Engine Examine internal structures with database console commands Transcend row-size limitations with special storage capabilities Choose the right transaction isolation level and concurrency model Take control over query plan caching and reuse

Information is everywhere. But imagine the CIO of a company who has spent millions implementing databases and applications, yet doesn't know how to view that data in a way to make good decisions that make the company more profitable. That is where you come in. As a database professional you will be asked to provide answers to questions from the CIO and others in the company from that data. If your company is using SQL Server to host some of the company's data, chances are you will use SQL Server Reporting Services to create professional looking reports to hand to the CIO. This book is meant to be a fantastic value that gets you started with SSRS. You will learn with many hands-on exercises that build on skills from chapter to chapter. Each chapter has a "Points to Ponder" section that summarizes the content, and you will also find a short review quiz at the end.

R Markdown: The Definitive Guide is the first official book authored by the core R Markdown developers that provides a comprehensive and accurate reference to the R Markdown ecosystem. With R Markdown, you can easily create reproducible data analysis reports, presentations, dashboards, interactive applications, books, dissertations, websites, and journal articles, while enjoying the simplicity of Markdown and the great power of R and other languages. In this book, you will learn Basics: Syntax of Markdown and R code chunks, how to generate figures and tables, and how to use other computing languages Built-in output formats of R Markdown: PDF/HTML/Word/RTF/Markdown documents and ioslides/Slidy/Beamer/PowerPoint presentations Extensions

and applications: Dashboards, Tufte handouts, xaringan/reveal.js presentations, websites, books, journal articles, and interactive tutorials Advanced topics: Parameterized reports, HTML widgets, document templates, custom output formats, and Shiny documents. Yihui Xie is a software engineer at RStudio. He has authored and co-authored several R packages, including knitr, rmarkdown, bookdown, blogdown, shiny, xaringan, and animation. He has published three other books, Dynamic Documents with R and knitr, bookdown: Authoring Books and Technical Documents with R Markdown, and blogdown: Creating Websites with R Markdown. J.J. Allaire is the founder of RStudio and the creator of the RStudio IDE. He is an author of several packages in the R Markdown ecosystem including rmarkdown, flexdashboard, learnr, and radix. Garrett Golemund is the co-author of R for Data Science and author of Hands-On Programming with R. He wrote the lubridate R package and works for RStudio as an advocate who trains engineers to do data science with R and the Tidyverse. Enjoy reading interviews with more than two dozen data professionals to see a picture of what it's like to work in the industry managing and analyzing data, helping you to know what it takes to move from your current expertise into one of the fastest growing areas of technology today. Data is the hottest word of the century, and data professionals are in high demand. You may already be a data professional such as a database administrator or business intelligence analyst. Or you may be one of the many people who want to work as a data professional, and are curious how to get there. Either way, this collection helps you understand how data professionals work, what makes them successful, and what they do to keep up. You'll find interviews in this book with database administrators, database programmers, data architects, business intelligence professionals, and analytics

professionals. Interviewees work across industry sectors ranging from healthcare and banking to finance and transportation and beyond. Each chapter illuminates a successful professional at the top of their game, who shares what helped them get to the top, and what skills and attitudes combine to make them successful in their respective fields. Interviewees in the book include: Mindy Curnutt, Julie Smith, Kenneth Fisher, Andy Leonard, Jes Borland, Kevin Feasel, Ginger Grant, Vicky Harp, Kendra Little, Jason Brimhall, Tim Costello, Andy Mallon, Steph Locke, Jonathan Stewart, Joseph Sack, John Q. Martin, John Morehouse, Kathi Kellenberger, Argenis Fernandez, Kirsten Benzel, Tracy Boggiano, Dave Walden, Matt Gordon, Jimmy May, Drew Furgiuele, Marlon Ribunal, and Joseph Fleming. All of them have been successful in their careers, and share their perspectives on working and succeeding in the field as data and database professionals. What You'll Learn Stand out as an outstanding professional in your area of data work by developing the right set of skills and attitudes that lead to success Avoid common mistakes and pitfalls, and recover from operational failures and bad technology decisions Understand current trends and best practices, and stay out in front as the field evolves Break into working with data through database administration, business intelligence, or any of the other career paths represented in this book Manage stress and develop a healthy work-life balance no matter which career path you decide upon Choose a suitable path for yourself from among the different career paths in working with data Who This Book Is For Database administrators and developers, database and business intelligence architects, consultants, and analytic professionals, as well as those intent on moving into one of those career paths. Aspiring data professionals and those in related technical fields who want to make a move toward managing or analyzing data on a full-

time basis will find the book useful. Existing data professionals who want to be outstanding and successful at what they do will also appreciate the book's advice and guidance.

How do you use PowerShell to navigate the filesystem, manage files and folders, or retrieve a web page? This introduction to the PowerShell language and scripting environment provides more than 400 task-oriented recipes to help you solve all kinds of problems. Intermediate to advanced system administrators will find more than 100 tried-and-tested scripts they can copy and use immediately. Updated for PowerShell 5, Open Source PowerShell up to 7 and beyond, this comprehensive cookbook includes hands-on recipes for common tasks and administrative jobs that you can apply whether you're on the client or server version of Windows. You also get quick references to technologies used in conjunction with PowerShell, including format specifiers and frequently referenced registry keys to selected .NET, COM, and WMI classes. Learn how to use PowerShell on Windows 10 and Windows Server 2019 Tour PowerShell's core features, including the command model, object-based pipeline, and ubiquitous scripting Master fundamentals such as the interactive shell, pipeline, and object concepts Perform common tasks that involve working with files, Internet-connected scripts, user interaction, and more Solve tasks in systems and enterprise management, such as working with Active Directory and the filesystem

Once you know the basics of the SQL language, it's time to take the next step toward specialization: query writing! All objects in SQL support the need to get data in and out of databases, and writing queries is the key to capturing the data you want. "SQL Queries 2012 Joes 2 Pros Volume 2" shows you a proven roadmap that has helped many beginning SQL students get their certifications and launch

their careers. If you want to get ready for MCTS certification, this is the second book of the Joes 2 Pros series. This book is totally focused on providing a fun, hands-on experience as it evolves your basic SQL skills and amps up your level of query writing expertise. This is Volume II of the Joes 2 Pros certification track designed to prepare you for the 70-461 SQL 2012 exam. If you are a total beginner, we recommend you first become familiar with the material in the "Beginning SQL Joes 2 Pros." For those of you who have read the 2008 series for the 70-433 Exam you will find a lot of the same material from the SQL 2008 book in this SQL 2012 book. This is because much of the 70-461 test covers the same material as the 70-433. I have added material that is new to the test and removed material that is no longer relevant. If you have already read this series or have already passed the 70-433 exam you may choose to read my book which covers only the changes from 70-433 to 70-461 entitled "SQL 2012 Querying, what's new and Cool."

This book is intended for anyone starting out with PHP programming. If you've previously worked in another programming language such as Java, C#, or Perl, you'll probably pick up the concepts in the earlier chapters quickly; however, the book assumes no prior experience of programming or of building Web applications. That said, because PHP is primarily a Web technology, it will help if you have at least some knowledge of other Web technologies, particularly HTML and CSS. Many Web applications make use of a database to store data, and this book contains three chapters on working with MySQL databases. Once again, if you're already familiar with databases in general — and MySQL in particular — you'll be able to fly through these chapters. However, even if you've never touched a database before in your life, you should still be able to pick up a working knowledge by reading through these chapters.

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"Master every business SQL skill you need! Grouping, totaling, summaries, modifying databases, integrating data from multiple tables, and much more! Includes video introduction, 2+ hours of expert audio commentary, 200+ animated figures, 100+ self review questions, 100+ exercises, searching, hyperlinking, and more."--Container.

As companies grow and do more business, the data they store in databases similarly grows. If you want to be a go-to person on the inner workings of SQL Server, then this book will be your partner in achieving that goal. If you have completed the "SQL Queries 2012 Joes 2 Pros(r) Volume 2" book you have written some advanced queries. This book builds on that knowledge and will show you more about the parts of SQL Server at work behind the scenes when you are running queries and creating new database objects. Most importantly, you will learn how to make the essential queries for your business run most efficiently and at the fastest speed possible. For those of you who have read the 2008 series for the 70-433 Exam you will find a lot of the same material from the SQL 2008 book in this SQL 2012 book. This is because much of the 70-461 test covers the same material as the 70-433. I have added material that is new to the test and removed material that is no longer relevant. If you have already read this series or have already passed the 70-433 exam you may choose to read my book which covers only the changes from 70-433 to 70-461 entitled "Joes 2 Pros SQL 2012 Queries 70-461 Exam for SQL 2008 Pros"

The need to handle increasingly larger data volumes is one factor driving the adoption of a new class of

nonrelational “NoSQL” databases. Advocates of NoSQL databases claim they can be used to build systems that are more performant, scale better, and are easier to program. NoSQL Distilled is a concise but thorough introduction to this rapidly emerging technology. Pramod J. Sadalage and Martin Fowler explain how NoSQL databases work and the ways that they may be a superior alternative to a traditional RDBMS. The authors provide a fast-paced guide to the concepts you need to know in order to evaluate whether NoSQL databases are right for your needs and, if so, which technologies you should explore further. The first part of the book concentrates on core concepts, including schemaless data models, aggregates, new distribution models, the CAP theorem, and map-reduce. In the second part, the authors explore architectural and design issues associated with implementing NoSQL. They also present realistic use cases that demonstrate NoSQL databases at work and feature representative examples using Riak, MongoDB, Cassandra, and Neo4j. In addition, by drawing on Pramod Sadalage's pioneering work, NoSQL Distilled shows how to implement evolutionary design with schema migration: an essential technique for applying NoSQL databases. The book concludes by describing how NoSQL is ushering in a new age of Polyglot Persistence, where multiple data-storage worlds coexist, and architects can choose the technology best optimized for each type of data access.

Describes the features and functions of Apache Hive, the data infrastructure for Hadoop.

The demand for SQL information and training continues

to grow with the need for a database behind every website capable of offering web-based information queries. SQL is the de facto standard for database retrieval, and if you need to access, update, or utilize data in a modern database management system, you will need SQL to do it. The Second Edition of Joe Celko's *Trees and Hierarchies in SQL for Smarties* covers two new sets of extensions over three entirely new chapters and expounds upon the changes that have occurred in SQL standards since the previous edition's publication. Benefit from mastering the challenging aspects of these database applications in SQL as taught by Joe Celko, one of the most-read SQL authors in the world. Expert advice from a noted SQL authority and award-winning columnist who has given 10 years of service to the ANSI SQL standards committee Teaches scores of advanced techniques that can be used with any product, in any SQL environment Offers graph theory and programming techniques for working around deficiencies and gives insight into real-world challenges

The SQL developer needs to be able to create processes for the working database by using one of the many programming objects (like functions, stored procedures, constraints, or triggers). By creating objects that talk with SQL you simplify the way other programs (like applications or web pages) can interconnect. These external programs only need to call on the names of your programming objects by name rather than needing to submit large pieces of advance code. With *SQL Programming Development (Volume 4 of 5)* in the *SQL Server Joes 2 Pros* development series, you learn how

programming objects work in SQL Server

The vast majority of software applications use relational databases that virtually every application developer must work with. This book introduces you to database design, whether you're a DBA or database developer. You'll discover what databases are, their goals, and why proper design is necessary to achieve those goals. Additionally, you'll master how to structure the database so it gives good performance while minimizing the chance for error. You will learn how to decide what should be in a database to meet the application's requirements.

Joe Celko's Complete Guide to NoSQL provides a complete overview of non-relational technologies so that you can become more nimble to meet the needs of your organization. As data continues to explode and grow more complex, SQL is becoming less useful for querying data and extracting meaning. In this new world of bigger and faster data, you will need to leverage non-relational technologies to get the most out of the information you have. Learn where, when, and why the benefits of NoSQL outweigh those of SQL with Joe Celko's Complete Guide to NoSQL. This book covers three areas that make today's new data different from the data of the past: velocity, volume and variety. When information is changing faster than you can collect and query it, it simply cannot be treated the same as static data. Celko will help you understand velocity, to equip you with the tools to drink from a fire hose. Old storage and access models do not work for big data. Celko will help you understand volume, as well as different ways to

store and access data such as petabytes and exabytes.

Not all data can fit into a relational model, including genetic data, semantic data, and data generated by social networks. Celko will help you understand variety, as well as the alternative storage, query, and management frameworks needed by certain kinds of data. Gain a complete understanding of the situations in which SQL has more drawbacks than benefits so that you can better determine when to utilize NoSQL technologies for maximum benefit Recognize the pros and cons of columnar, streaming, and graph databases Make the transition to NoSQL with the expert guidance of best-selling SQL expert Joe Celko

What is this book about? Extensible Markup Language (XML) is a rapidly maturing technology with powerful real-world applications, particularly for the management, display, and organization of data. Together with its many related technologies it is an essential technology for anyone using markup languages on the web or internally. This book teaches you all you need to know about XML — what it is, how it works, what technologies surround it, and how it can best be used in a variety of situations, from simple data transfer to using XML in your web pages. It builds on the strengths of the first edition, and provides new material to reflect the changes in the XML landscape — notably SOAP and Web Services, and the publication of the XML Schemas Recommendation by the W3C. What does this book cover? Here are just a few of the things this book covers: XML syntax and writing well-formed XML Using XML Namespaces Transforming XML into other formats with XSLT XPath

and XPointer for locating specific XML data XML

Validation using DTDs and XML Schemas Manipulating
XML documents with the DOM and SAX 2.0 SOAP and
Web Services Displaying XML using CSS and XSL

Incorporating XML into tradition databases and n-tier
architectures XLink and XPointer for linking XML and

non-XML resources Who is this book for? Beginning
XML, 2nd Edition is for any developer who is interested
in learning to use XML in web, e-commerce or data-
storage applications. Some knowledge of mark up,
scripting, and/or object oriented programming languages
is advantageous, but not essential, as the basis of these
techniques are explained as required.

You learn a lot when thrown into a crisis situation, where
everyone is looking to you for answers. The system is down,
the CEO is pleading to you for answers as the each minute
cuts the company's bottom line. When you are in a hurry, you
need some new ideas right away. This book is your helpful
tool. When used correctly, you can determine solutions and
even related solutions to simple (yet lesser known) areas of
SQL Server. Learn what causes SQL tasks to wait or site in
queues. Even if your system is not in trouble right now, you
can use what you will learn in this book to view the history of
wait statistics.

Database Modeling and Design, Fifth Edition, focuses on
techniques for database design in relational database
systems. This extensively revised fifth edition features clear
explanations, lots of terrific examples and an illustrative case,
and practical advice, with design rules that are applicable to
any SQL-based system. The common examples are based
on real-life experiences and have been thoroughly class-
tested. This book is immediately useful to anyone tasked with

the creation of data models for the integration of large-scale enterprise data. It is ideal for a stand-alone data management course focused on logical database design, or a supplement to an introductory text for introductory database management. In-depth detail and plenty of real-world, practical examples throughout Loaded with design rules and illustrative case studies that are applicable to any SQL, UML, or XML-based system Immediately useful to anyone tasked with the creation of data models for the integration of large-scale enterprise data.

Finally a book for the true SQL Server beginner! Whether you are brand new to data bases and are thinking of getting your 70-461 certification or already a semi-pro working in the field and need some fingertip support, this is this is the book for you. Joes 2 Pros does not assume you already know anything about data bases or SQL server. The Author, Rick Morelan, started out as a true beginner after he decided he had had enough of working on a fishing boat in Alaska. Rick struggled for years to acquire the knowledge necessary just to get his foot in the door. Many years later as an instructor, who was not happy with the instructional material available for his SQL students, he began the process of creating his own material. In 2009 Rick released his first book, "Beginning SQL Joes 2 Pros: The SQL Hands-On Guide for Beginners" for SQL 2008. Due to its clear writing style, easy to follow images and free downloadable labs it quickly became a top seller on Amazon. This book builds on the success of the previous series and will help anyone transform themselves from a beginner "Joe" into a SQL 2012 "Pro". For those of you who have read the 2008 series for the 70-433 Exam you will find a lot of the same material from the SQL 2008 book in this SQL 2012 book. This is because much of the 70-461 test covers the same material as the 70-433. I have added material that is new to the test and removed material that is

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no longer relevant. If you have already read this series or have already passed the 70-433 exam you may choose to read my book which covers only the changes from 70-433 to 70-461 entitled "Joes 2 Pros SQL 2012 Queries 70-461 Exam for SQL 2008 Pros". (To be published in Dec 2012)

This book has been formatted for printing outside of the united states

Several years ago a challenge was given to technology instructor Rick A. Morelan. Take downsized workers with little or no experience with computers or technology and turn them into industry certified technology experts. The proven material from this venture is now available to you as the Joes 2 Pros series of books and videos. This new approach has vivid pictures on almost every page that shows what you should see on your computer screen as you work through the material, and downloadable content, home practice labs, software, and fun review games available from the joes2pros web site. Starting with the basic lesson: "What is a Database? " this book helps beginners get comfortable with the SQL language. From there, you will walk step-by-step through the basics. 'Beginning SQL Joes 2 Pros' is the second edition of the popular 'T-SQL Joes 2 Pros' with updated content and a lower price. The language examples in this book can be used with any standard SQL engine.

Regardless of your skill level, you too can evolve from "Joe" to "Pro" by following the steps outlined in this book.

A full-color introduction to the basics of HTML and CSS from the publishers of Wrox! Every day, more and more people want to learn some HTML and CSS. Joining the professional web designers and programmers are new audiences who need to know a little bit of code at work (update a content management system or e-commerce store) and those who want to make their personal blogs more attractive. Many books teaching HTML and CSS are dry and only written for those who want to become programmers, which is why this

book takes an entirely new approach. Introduces HTML and CSS in a way that makes them accessible to everyone—hobbyists, students, and professionals—and it's full-color throughout Utilizes information graphics and lifestyle photography to explain the topics in a simple way that is engaging Boasts a unique structure that allows you to progress through the chapters from beginning to end or just dip into topics of particular interest at your leisure This educational book is one that you will enjoy picking up, reading, then referring back to. It will make you wish other technical topics were presented in such a simple, attractive and engaging way! This book is also available as part of a set in hardcover - Web Design with HTML, CSS, JavaScript and jQuery, 9781119038634; and in softcover - Web Design with HTML, CSS, JavaScript and jQuery, 9781118907443.

A multi-user game, web site, cloud application, or networked database can have thousands of users all interacting at the same time. You need a powerful, industrial-strength tool to handle the really hard problems inherent in parallel, concurrent environments. You need Erlang. In this second edition of the bestselling Programming Erlang, you'll learn how to write parallel programs that scale effortlessly on multicore systems. Using Erlang, you'll be surprised at how easy it becomes to deal with parallel problems, and how much faster and more efficiently your programs run. That's because Erlang uses sets of parallel processes-not a single sequential process, as found in most programming languages. Joe Armstrong, creator of Erlang, introduces this powerful language in small steps, giving you a complete overview of Erlang and how to use it in common scenarios. You'll start with sequential programming, move to parallel programming and handling errors in parallel programs, and learn to work confidently with distributed programming and the standard Erlang/Open Telecom Platform (OTP)

frameworks. You need no previous knowledge of functional or parallel programming. The chapters are packed with hands-on, real-world tutorial examples and insider tips and advice, and finish with exercises for both beginning and advanced users. The second edition has been extensively rewritten. New to this edition are seven chapters covering the latest Erlang features: maps, the type system and the Dialyzer, WebSockets, programming idioms, and a new stand-alone execution environment. You'll write programs that dynamically detect and correct errors, and that can be upgraded without stopping the system. There's also coverage of rebar (the de facto Erlang build system), and information on how to share and use Erlang projects on github, illustrated with examples from cowboy and bitcask. Erlang will change your view of the world, and of how you program. What You Need The Erlang/OTP system. Download it from erlang.org.
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