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For Smarties The Morgan
Joe Celkos Trees
Kaufmann Series In Data
Management Systems
In Sql For
Smarties The
Morgan Kaufmann
Series In Data
Management
Systems

Offers tips for improving the performance of any SQL database, no matter what the platform. Written for experienced database administrators familiar with SQL, the book identifies the similarities and differences of eight DBMSs,

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including Oracle 9i, IBM DB2 7.2,
and Microsoft SQL server 2000. It
provides strategies for refining
sorts, subqueries, columns, tables,
indexes, constraints, and locks.

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News, Inc., Portland, OR

Big Data: Principles and Paradigms
captures the state-of-the-art
research on the architectural
aspects, technologies, and
applications of Big Data. The book
identifies potential future directions
and technologies that facilitate
insight into numerous scientific,
business, and consumer
applications. To help realize Big
Data's full potential, the book
addresses numerous challenges,
offering the conceptual and

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technological solutions for tackling them. These challenges include life-cycle data management, large-scale storage, flexible processing infrastructure, data modeling, scalable machine learning, data analysis algorithms, sampling techniques, and privacy and ethical issues. Covers computational platforms supporting Big Data applications Addresses key principles underlying Big Data computing Examines key developments supporting next generation Big Data platforms Explores the challenges in Big Data computing and ways to overcome them Contains expert contributors from both academia and industry This indispensable SQL reference

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For Smarties, The Morgan Kaufmann Series In Data Management Systems book is the first of its kind to leverage the benefits of design patterns to relational database SQL queries; all common SQL structures and design patterns are clearly categorized and described. Emphasizing the theoretical foundation for almost every type of SQL query problem, accompanying figures are included to help visualize the problem. Because SQL is a declarative language there are many ways to write any SQL query and professional database programmers must understand the correct way to write SQL for complicated database queries, and managers must institute formal SQL coding standards to improve productivity and maintainability. The

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SQL design patterns in this resource greatly improve the quality and productivity of systems development projects by forming a "best practices" foundation for all relational database queries.

Data Mining: Concepts and Techniques provides the concepts and techniques in processing gathered data or information, which will be used in various applications. Specifically, it explains data mining and the tools used in discovering knowledge from the collected data. This book is referred as the knowledge discovery from data (KDD). It focuses on the feasibility, usefulness, effectiveness, and scalability of techniques of large data sets. After describing data

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mining, this edition explains the methods of knowing, preprocessing, processing, and warehousing data. It then presents information about data warehouses, online analytical processing (OLAP), and data cube technology. Then, the methods involved in mining frequent patterns, associations, and correlations for large data sets are described. The book details the methods for data classification and introduces the concepts and methods for data clustering. The remaining chapters discuss the outlier detection and the trends, applications, and research frontiers in data mining. This book is intended for Computer Science students, application

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developers, business professionals,
and researchers who seek
information on data mining.

Presents dozens of algorithms and
implementation examples, all in
pseudo-code and suitable for use in
real-world, large-scale data mining

projects Addresses advanced
topics such as mining object-
relational databases, spatial
databases, multimedia databases,
time-series databases, text
databases, the World Wide Web,
and applications in several fields

Provides a comprehensive,
practical look at the concepts and
techniques you need to get the
most out of your data

MySQL Stored Procedure
Programming

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Programming Rust
Building High-Performance Web
Applications in MySQL

Practical Data Science with R

Pro Django

Joe Celko's Analytics and OLAP in
SQL

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

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*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*

*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.

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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

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*For Smarties The Morgan
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*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*

*An industry consultant shares his
most useful tips and tricks for
advanced SQL programming to
help the working programmer gain
performance and work around
system deficiencies.*

*The key to client/server computing.
Transaction processing techniques
are deeply ingrained in the fields of*

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databases and operating systems and are used to monitor, control and update information in modern computer systems. This book will show you how large, distributed, heterogeneous computer systems can be made to work reliably.

Using transactions as a unifying conceptual framework, the authors show how to build high-performance distributed systems and high-availability applications with finite budgets and risk. The authors provide detailed explanations of why various problems occur as well as practical, usable techniques for their solution. Throughout the book, examples and techniques are drawn

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*from the most successful
commercial and research systems.
Extensive use of compilable C code
fragments demonstrates the many
transaction processing algorithms
presented in the book. The book
will be valuable to anyone
interested in implementing
distributed systems or client/server
architectures.*

*Conventions of Thought
Java Data Mining: Strategy,
Standard, and Practice
Comprehensive VB .NET
Debugging
Beyond the Basics Using SAS,
Third Edition
Principles and Paradigms
XQuery Kick Start*

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SQL for Smarties was hailed as the first book devoted explicitly to the advanced techniques needed to transform an experienced SQL programmer into an expert. Now, 10 years later and in the third edition, this classic still reigns supreme as the book written by an SQL master that teaches future SQL masters. These are not just tips and techniques; Joe also offers the best solutions to old and new challenges and conveys the way you need to think in order to get the most out of SQL programming efforts for both correctness and performance. In the third edition, Joe features new examples and updates to SQL-99, expanded sections of Query techniques, and

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a new section on schema design, with the same war-story teaching style that made the first and second editions of this book classics.

Expert advice from a noted SQL authority and award-winning columnist, who has given ten years of service to the ANSI SQL standards committee and many more years of dependable help to readers of online forums. Teaches scores of advanced techniques that can be used with any product, in any SQL environment, whether it is an SQL-92 or SQL-99 environment. Offers tips for working around system deficiencies. Continues to use war stories--updated!--that give insights into real-world SQL programming challenges.

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"XQuery Kick Start" delivers a concise introduction to the XQuery standard, and useful implementation advice for developers needing to put it into practice. The book starts by explaining the role of XQuery in the XML family of specifications, and its relationship with XPath. The authors then explain the specification in detail, describing the semantics and data model, before moving to examples using XQuery to manipulate XML databases and document storage systems. Later chapters discuss Java implementations of XQuery and development tools that facilitate the development of Web sites with XQuery. This book is up

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to date with the latest XQuery specifications, and includes coverage of new features for extending the XQuery language. In Distributed Algorithms, Nancy Lynch provides a blueprint for designing, implementing, and analyzing distributed algorithms. She directs her book at a wide audience, including students, programmers, system designers, and researchers. Distributed Algorithms contains the most significant algorithms and impossibility results in the area, all in a simple automata-theoretic setting. The algorithms are proved correct, and their complexity is analyzed according to precisely defined complexity measures. The

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problems covered include resource allocation, communication, consensus among distributed processes, data consistency, deadlock detection, leader election, global snapshots, and many others. The material is organized according to the system model—first by the timing model and then by the interprocess communication mechanism. The material on system models is isolated in separate chapters for easy reference. The presentation is completely rigorous, yet is intuitive enough for immediate comprehension. This book familiarizes readers with important problems, algorithms, and impossibility results in the area:

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readers can then recognize the problems when they arise in practice, apply the algorithms to solve them, and use the impossibility results to determine whether problems are unsolvable. The book also provides readers with the basic mathematical tools for designing new algorithms and proving new impossibility results. In addition, it teaches readers how to reason carefully about distributed algorithms—to model them formally, devise precise specifications for their required behavior, prove their correctness, and evaluate their performance with realistic measures.

Joe Celko's Analytics and OLAP in SQL is the first book that teaches

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what SQL programmers need in order to successfully make the transition from On-Line Transaction Processing (OLTP) systems into the world of On-Line Analytical Processing (OLAP). This book is not an in-depth look at particular subjects, but an overview of many subjects that will give the working RDBMS programmers a map of the terra incognita they will face — if they want to grow. It contains expert advice from a noted SQL authority and award-winning columnist, who has given ten years of service to the ANSI SQL standards committee and many more years of dependable help to readers of online forums. It offers real-world insights and lots of

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practical examples. It covers the OLAP extensions in SQL-99; ETL tools, OLAP features supported in DBMSs, other query tools, simple reports, and statistical software. This book is ideal for experienced SQL programmers who have worked with OLTP systems who need to learn techniques—and even some tricks—that they can use in an OLAP situation. Expert advice from a noted SQL authority and award-winning columnist, who has given ten years of service to the ANSI SQL standards committee and many more years of dependable help to readers of online forums

First book that teaches what SQL programmers need in order to successfully make the transition

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from transactional systems (OLTP)
into the world of data warehouse
data and OLAP Offers real-world
insights and lots of practical
examples Covers the OLAP
extensions in SQL-99; ETL tools,
OLAP features supported in
DBMSs, other query tools, simple
reports, and statistical software
T-SQL Querying

Concepts and Techniques

Joe Celko's Trees and Hierarchies
in SQL for Smarties

The Guru's Guide to Transact-SQL
Data Mining: Concepts and
Techniques

SQL & NoSQL Databases

**Whether you are a software
developer, systems architect,
data analyst, or business**

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analyst, if you want to take advantage of data mining in the development of advanced analytic applications, Java Data Mining, JDM, the new standard now implemented in core DBMS and data mining/analysis software, is a key solution component. This book is the essential guide to the usage of the JDM standard interface, written by contributors to the JDM standard. Data mining introduction - an overview of data mining and the problems it can address across industries; JDM's place in strategic solutions to data

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**mining-related problems JDM
essentials - concepts, design
approach and design issues,
with detailed code examples in
Java; a Web Services interface
to enable JDM functionality in
an SOA environment; and
illustration of JDM XML
Schema for JDM objects JDM
in practice - the use of JDM
from vendor implementations
and approaches to customer
applications, integration, and
usage; impact of data mining
on IT infrastructure; a how-to
guide for building applications
that use the JDM API Free,
downloadable KJDM source
code referenced in the book**

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available here
Pearce's book is specifically
about debugging in the

programming language

VB.NET for every application
type, from Windows Forms to
ASP.NET to XML Web
services.

Systems programming
provides the foundation for the
world's computation. Writing
performance-sensitive code
requires a programming
language that puts
programmers in control of how
memory, processor time, and
other system resources are
used. The Rust systems
programming language

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combines that control with a modern type system that catches broad classes of common mistakes, from memory management errors to data races between threads. With this practical guide, experienced systems programmers will learn how to successfully bridge the gap between performance and safety using Rust. Jim Blandy, Jason Orendorff, and Leonora Tindall demonstrate how Rust's features put programmers in control over memory consumption and processor use by combining predictable performance with

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**memory safety and
trustworthy concurrency.
You'll learn: Rust's
fundamental data types and
the core concepts of
ownership and borrowing How
to write flexible, efficient code
with traits and generics How
to write fast, multithreaded
code without data races Rust's
key power tools: closures,
iterators, and asynchronous
programming Collections,
strings and text, input and
output, macros, unsafe code,
and foreign function interfaces
This revised, updated edition
covers the Rust 2021 Edition.
This invaluable addition to any**

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data scientist's library shows you how to apply the R programming language and useful statistical techniques to everyday business situations as well as how to effectively present results to audiences of all levels. To answer the ever-increasing demand for machine learning and analysis, this new edition boasts additional R tools, modeling techniques, and more. Practical Data Science with R, Second Edition takes a practice-oriented approach to explaining basic principles in the ever-expanding field of data science. You'll jump right

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to real-world use cases as you
apply the R programming
language and statistical
analysis techniques to
carefully explained examples
based in marketing, business
intelligence, and decision
support. Purchase of the print
book includes a free eBook in
PDF, Kindle, and ePub formats
from Manning Publications.

Transact-SQL Cookbook

Joe Celko's SQL for Smarties

Joe Celko's Thinking in Sets:

Auxiliary, Temporal, and

Virtual Tables in SQL

A Complete Guide to SQL/PSM

The Expert Guide to SQL

Programming

Oracle Internals

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

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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. Provides information on developing database applications in SQL,

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For Smarties The Morgan Kaufmann Series In Data Management Systems covering such topics as adjacency list model, nested sets, binary trees, data modeling, graphs, and hierarchical database systems.

The nature of an information system; Naming; Relationships; Attributes; Types and categories and sets; Models; The record model; The other three popular models; The modelling of relationships; Elementary concepts; Philosophy.

This book offers a comprehensive introduction to relational (SQL) and non-relational (NoSQL) databases. The authors thoroughly review the current state of database tools and techniques, and examine coming innovations. The book opens with a broad look at data management,

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including an overview of information systems and databases, and an explanation of contemporary database types: SQL and NoSQL databases, and their respective management systems The nature and uses of Big Data A high-level view of the organization of data management Data Modeling and Consistency Chapter-length treatment is afforded Data Modeling in both relational and graph databases, including enterprise-wide data architecture, and formulas for database design. Coverage of languages extends from an overview of operators, to SQL and and QBE (Query by Example), to integrity constraints and more. A full chapter probes the

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challenges of Ensuring Data Consistency, covering: Multi-User Operation Troubleshooting Consistency in Massive Distributed Data Comparison of the ACID and BASE consistency models, and more System Architecture also gets from its own chapter, which explores Processing of Homogeneous and Heterogeneous Data; Storage and Access Structures; Multi-dimensional Data Structures and Parallel Processing with MapReduce, among other topics. Post-Relational and NoSQL Databases The chapter on post-relational databases discusses the limits of SQL – and what lies beyond, including Multi-Dimensional Databases,

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Knowledge Bases and and Fuzzy Databases. A final chapter covers NoSQL Databases, along with Development of Non-Relational Technologies, Key-Value, Column-Family and Document Stores XML Databases and Graphic Databases, and more The book includes more than 100 tables, examples and illustrations, and each chapter offers a list of resources for further reading. SQL & NoSQL Databases conveys the strengths and weaknesses of relational and non-relational approaches, and shows how to undertake development for big data applications. The book benefits readers including students and practitioners working across the broad field of applied

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*information technology. This
textbook has been recommended
and developed for university
courses in Germany, Austria and
Switzerland.*

*Joe Celko's SQL Programming
Style*

*Understanding Object-Relational
and Other Advanced Features*

Big Data

PROC SQL

Concepts in Practice

*Everything Developers Need to
Know about SQL Performance*

**Are you an SQL
programmer that, like
many, came to SQL after
learning and writing
procedural or object-
oriented code? Or have**

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switched jobs to where a different brand of SQL is being used, or maybe even been told to learn SQL yourself? If even one answer is yes, then you need this book. A "Manual of Style" for the SQL programmer, this book is a collection of heuristics and rules, tips, and tricks that will help you improve SQL programming style and proficiency, and for formatting and writing portable, readable, maintainable SQL code. Based on many years of

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**experience consulting in
SQL shops, and gathering
questions and resolving
his students' SQL style
issues, Joe Celko can help
you become an even
better SQL programmer.
Help you write Standard
SQL without an accent or
a dialect that is used in
another programming
language or a specific
flavor of SQL, code that
can be maintained and
used by other people.
Enable you to give your
group a coding standard
for internal use, to enable
programmers to use a**

consistent style. Give you the mental tools to approach a new problem with SQL as your tool, rather than another programming language — one that someone else might not know!

If you are a typical Oracle professional, you don't have the luxury of time to keep up with new technology and read all the new manuals to understand each new feature of the latest release from Oracle. You need a comprehensive source of information and

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in-depth tips and techniques for using the new technology. You need Oracle Internals: Tips, Trick

For all the buzz about trendy IT techniques, data processing is still at the core of our systems, especially now that enterprises all over the world are confronted with exploding volumes of data. Database performance has become a major headache, and most IT departments believe that developers should provide simple

SQL code to solve immediate problems and let DBAs tune any bad SQL later. In The Art of SQL, author and SQL expert Stephane Faroult argues that this safe approach only leads to disaster. His insightful book, named after Art of War by Sun Tzu, contends that writing quick inefficient code is sweeping the dirt under the rug. SQL code may run for 5 to 10 years, surviving several major releases of the database management system and

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on several generations of hardware. The code must be fast and sound from the start, and that requires a firm understanding of SQL and relational theory. The Art of SQL offers best practices that teach experienced SQL users to focus on strategy rather than specifics. Faroult's approach takes a page from Sun Tzu's classic treatise by viewing database design as a military campaign. You need knowledge, skills, and talent. Talent can't

be taught, but every strategist from Sun Tzu to modern-day generals believed that it can be nurtured through the experience of others. They passed on their experience acquired in the field through basic principles that served as guiding stars amid the sound and fury of battle. This is what Faroult does with SQL. Like a successful battle plan, good architectural choices are based on contingencies. What if the volume of this or that

table increases unexpectedly? What if, following a merger, the number of users doubles? What if you want to keep several years of data online? Faroult's way of looking at SQL performance may be unconventional and unique, but he's deadly serious about writing good SQL and using SQL well. The Art of SQL is not a cookbook, listing problems and giving recipes. The aim is to get you-and your manager-to raise good questions.

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PROC SQL: Beyond the Basics Using SAS®, Third Edition, is a step-by-step, example-driven guide that helps readers master the language of PROC SQL. Packed with analysis and examples illustrating an assortment of PROC SQL options, statements, and clauses, this book not only covers all the basics, but it also offers extensive guidance on complex topics such as set operators and correlated subqueries. Programmers at all levels will appreciate Kirk

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Lafler's easy-to-follow examples, clear explanations, and handy tips to extend their knowledge of PROC SQL. This third edition explores new and powerful features in SAS® 9.4, including topics such as: IFC and IFN functions nearest neighbor processing the HAVING clause indexes It also features two completely new chapters on fuzzy matching and data-driven programming. Delving into the workings of

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**PROC SQL with greater
analysis and discussion,
PROC SQL: Beyond the
Basics Using SAS® , Third
Edition, explores this
powerful database
language using
discussion and numerous
real-world examples.
SQL Design Patterns
Data and Reality
Models, Languages,
Consistency Options and
Architectures for Big
Data Management
A Practical Guide for
Architecture, Design, and
Implementation
Understanding SQL's**

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Stored Procedures SQL Performance Explained

Demonstrates important concepts and offers working Transact-SQL code, covering data filtering, DDL, DML, statistical functions, runs and sequences, transactions, stored procedures and triggers, and performance tuning.

This guide contains a wealth of solutions to problems that SQL Server programmers face. The recipes in the book range from those that show how to perform simple tasks to ones that are more complicated.

This guide documents SQL:

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1999Us advanced features in the same practical, "programmercentric" way that the first volume documented the language's basic features. This is no mere representation of the standard, but rather authoritative guidance on making an application conform to it, both formally and effectively.

Django is the leading Python web application development framework. Learn how to leverage the Django web framework to its full potential in this advanced tutorial and reference. Endorsed by Django, Pro Django more or less picks

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up where The Definitive Guide to Django left off and examines in greater detail the unusual and complex problems that Python web application developers can face and how to solve them. Provides in-depth information about advanced tools and techniques available in every Django installation

Runs the gamut from the theory of Django's internal operations to actual code that solves real-world problems for high-volume environments

Goes above and beyond other books, leaving the basics behind Shows how Django can do things even its core

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developers never dreamed
possible

Creating Self-Describing Data

SQL Clearly Explained

Joe Celko's Complete Guide to

NoSQL

Joe Celko's Data,

Measurements and Standards

in SQL

Transaction Processing

Basic Assumptions in Data

Processing Reconsidered

*The implementation of
stored procedures in MySQL
5.0 a hugemilestone -- one
that is expected to lead
to widespread enterprise
adoption of the already
extremely popular MySQL*

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database. If you are serious about building the web-based database applications of the future, you need to get up to speed quickly on how stored procedures work -- and how to build them the right way. This book, destined to be the bible of stored procedure development, is a resource that no real MySQL programmer can afford to do without. In the decade since MySQL burst on the scene, it has become the dominant open source database, with capabilities and

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performancerivaling those of commercial RDBMS offerings like Oracle and SQLServer. Along with Linux and PHP, MySQL is at the heart of millions of applications. And now, with support for stored procedures, functions, and triggers in MySQL 5.0, MySQL offers the programming power needed for true enterprise use. MySQL's new procedural language has a straightforward syntax, making it easy to write simple programs. But it's not so easy to write secure, easily maintained,

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high-performance, and bug-free programs. Few in theMySQL world have substantial experience yet with stored procedures, butGuy Harrison and Steven Feuerstein have decades of combined expertise. In MySQL Stored Procedure Programming, they putthat hard-won experience to good use. Packed with code examples and coveringeverything from language basics to application building to advancedtuning and best practices, this highly readable book is the one-stopguide to MySQL

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development. It consists of four major sections:

- MySQL stored programming fundamentals -- tutorial, basic statements, SQL in stored programs, and error handling
- Building MySQL stored programs -- transaction handling, built-in functions, stored functions, and triggers
- MySQL stored programs in applications -- using stored programs with PHP, Java, Perl, Python, and .NET (C# and VB.NET)
- Optimizing MySQL stored programs -- security, basic and advanced SQL tuning, optimizing stored

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*program code, and
programming best practices*

A companion web site

*contains many thousands of
lines of code, that you can
put to use immediately.*

*Guy Harrison is Chief
Architect of Database
Solutions at Quest
Software and a frequent
speaker and writer on
MySQL topics. Steven
Feuerstein is the author of
Oracle PL/SQL Programming,
the classic reference for
Oracle stored programming
for more than ten years.
Both have decades of
experience as database
developers, and between*

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them they have authored a
dozen books.

Joe Celko's SQL Puzzles
and Answers, Second
Edition, challenges you
with his trickiest puzzles
and then helps solve them
with a variety of
solutions and
explanations. Author Joe
Celko demonstrates the
thought processes that are
involved in attacking a
problem from an SQL
perspective to help
advanced database
programmers solve the
puzzles you frequently
face. These techniques not
only help with the puzzle

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at hand, but also help develop the mindset needed to solve the many difficult SQL puzzles you face every day. This updated edition features many new puzzles; dozens of new solutions to puzzles; and new chapters on temporal query puzzles and common misconceptions about SQL and RDBMS that leads to problems. This book is recommended for database programmers with a good knowledge of SQL. A great collection of tricky SQL puzzles with a variety of solutions and explanations Uses the

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*proven format of puzzles
and solutions to provide a
user-friendly, practical
look into SQL programming
problems - many of which
will help users solve
their own problems New
edition features: Many new
puzzles added!, Dozens of
new solutions to puzzles,
and using features in
SQL-99, Code is edited to
conform to SQL STYLE
rules, New chapter on
temporal query puzzles,
New chapter on common
misconceptions about SQL
and RDBMS that leads to
problems*

This second edition of the

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bestselling Learning XML provides web developers with a concise but grounded understanding of XML (the Extensible Markup Language) and its potential-- not just a whirlwind tour of XML. The author explains the important and relevant XML technologies and their capabilities clearly and succinctly with plenty of real-life projects and useful examples. He outlines the elements of markup--demystifying concepts such as attributes, entities, and namespaces--and provides

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enough depth and examples to get started. Learning XML is a reliable source for anyone who needs to know XML, but doesn't want to waste time wading through hundreds of web sites or 800 pages of bloated text. For writers producing XML documents, this book clarifies files and the process of creating them with the appropriate structure and format. Designers will learn what parts of XML are most helpful to their team and will get started on creating Document Type Definitions. For

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For Smarties The Morgan Kaufmann Series In Data Management Systems. Learning XML also discusses the stylesheets needed for viewing documents in the next generation of browsers, databases, and other devices. Learning XML illustrates the core XML concepts and language syntax, in addition to important related tools such as the CSS and XSL styling languages and the XLink and XPointer specifications for creating rich link structures. It includes information about three

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schema languages for validation: W3C Schema, Schematron, and RELAX-NG, which are gaining widespread support from people who need to validate documents but aren't satisfied with DTDs. Also new in this edition is a chapter on XSL-FO, a powerful formatting language for XML. If you need to wade through the acronym soup of XML and start to really use this powerful tool, Learning XML, will give you the roadmap you need. This text covers basic database concepts to

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provide a conceptual
understanding of data and
databases necessary for
database design and
development.

*Distributed Algorithms
Advanced SQL Programming
Advanced SQL:1999
Database Tuning
The Art of SQL
Data Model Patterns*

**Presenting a complete guide to
SQL/PSM (Persistent Stored
Modules), this book explores the
basic concepts and then
presents the entire PSM
standard in a way designed for
"real world" use. It teaches
application developers to use**

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new SQL extensions that allow complex operations to be performed on the server in client-server environments. This, in turn, improves system performance and saves time. This is the digital version of the printed book (Copyright © 1996). Learning the basics of a modeling technique is not the same as learning how to use and apply it. To develop a data model of an organization is to gain insights into its nature that do not come easily. Indeed, analysts are often expected to understand subtleties of an organization's structure that may have evaded people who have worked there

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for years. Here's help for those analysts who have learned the basics of data modeling (or "entity/relationship modeling") but who need to obtain the insights required to prepare a good model of a real business. Structures common to many types of business are analyzed in areas such as accounting, material requirements planning, process manufacturing, contracts, laboratories, and documents. In each chapter, high-level data models are drawn from the following business areas: The Enterprise and Its World The Things of the Enterprise Procedures and

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Activities Contracts Accounting
The Laboratory Material
Requirements Planning Process
Manufacturing Documents Lower-
Level Conventions

This is the second edition of the popular practitioner's guide to SQL, the industry-standard database query language. Like most computer languages, SQL can be overwhelming when you first see it, but for years readers have relied on this book to clear the confusion and explain how SQL works and how to use it effectively. Packed with tips, tricks, and good information, SQL Clearly Explained, Second Edition teaches database users

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and programmers everything they need to know to get their job done including · formulating SQL queries, · understanding how queries are processed by the DBMS, · maximizing performance, · using SQL to enter, modify, or delete data, · creating and maintaining database structural elements, and · embedding SQL in applications. Features · Updated and expanded to include changes in the SQL standard (SQL:1999) as well as recently implemented aspects of SQL-92. · Includes CD with examples from the book as well as MySQL, a popular open-source DBMS,

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on which the examples are based. · Web enhanced with extra features available online at www.mkp.com. * Second edition of classic SQL handbook *

Updated to cover changes in the SQL language standard (SQL:1999) * Includes CD with MySQL software

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

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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

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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

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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
Tips, Tricks, and Techniques for
DBAs

Learning XML

What Every SQL Professional
Needs to Know about Non-
Relational Databases

Joe Celko's SQL Puzzles and
Answers

Advanced SQL Programming
Second Edition

Principles, Experiments, and

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Troubleshooting Techniques

Joe Celko has looked deep into the code of SQL programmers and found a consistent and troubling pattern - a frightening lack of consistency between their individual encoding schemes and those of the industries in which they operate. This translates into a series of incompatible databases, each one an island unto itself that is unable to share information with others in an age of

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internationalization and
business
interdependence. Such
incompatibility severely
hinders information flow
and the quality of
company data. Data,
Measurements and
Standards in SQL reveals
the shift these
programmers need to make
to overcome this
deadlock. By collecting
and detailing the
diverse standards of
myriad industries, and
then giving a
declaration for the
units that can be used

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in an SQL schema, Celko enables readers to write and implement portable data that can interface to any number of external application systems! This book doesn't limit itself to one subject, but serves as a detailed synopsis of measurement scales and data standards for all industries, thereby giving RDBMS programmers and designers the knowledge and know-how they need to communicate effectively across business boundaries. *

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Collects and details the diverse data standards of myriad industries under one cover, thereby creating a definitive, one-stop-shopping opportunity for database programmers. * Enables readers to write and implement portable data that can interface to any number external application systems, allowing readers to cross business boundaries and move up the career ladder. * Expert advice from one of the most-read SQL

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For Smarties, The Morgan Kaufmann Series In Data Management Systems authors in the world who is well known for his ten years of service on the ANSI SQL standards committee and Readers Choice Award winning column in Intelligent Enterprise.

Tuning your database for optimal performance means more than following a few short steps in a vendor-specific guide. For maximum improvement, you need a broad and deep knowledge of basic tuning principles, the ability to gather data

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in a systematic way, and the skill to make your system run faster. This is an art as well as a science, and Database Tuning: Principles, Experiments, and Troubleshooting Techniques will help you develop portable skills that will allow you to tune a wide variety of database systems on a multitude of hardware and operating systems. Further, these skills, combined with the scripts provided for validating results, are

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exactly what you need to
evaluate competing
database products and to

choose the right one.

Forward by Jim Gray,
with invited chapters by
Joe Celko and Alberto

Lerner Includes
industrial contributions
by Bill McKenna

(RedBrick/Informix),
Hany Saleeb (Oracle),
Tim Shetler (TimesTen),

Judy Smith (Deutsche
Bank), and Ron Yorita
(IBM) Covers the entire

system environment:
hardware, operating
system, transactions,

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indexes, queries, table
design, and application
analysis Contains
experiments (scripts
available on the
author's site) to help
you verify a system's
effectiveness in your
own environment Presents
special topics,
including data
warehousing, Web
support, main memory
databases, specialized
databases, and financial
time series Describes
performance-monitoring
techniques that will
help you recognize and

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

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For Smarties The Morgan Kaufmann Series In Data Management Systems 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

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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

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improvements with In-Memory OLTP Master
useful and elegant
approaches to
manipulating graphs
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practitioners Includes
coverage updated from
Inside Microsoft SQL
Server 2008 T-SQL
Querying and Inside
Microsoft SQL Server
2008 T-SQL Programming
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DBAs, BI professionals,
and data scientists
Covers many MCSE 70-464
and MCSA/MCSE 70-461

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Inside Microsoft SQL

Server 2008 T-SQL

Querying