

Database Tuning

*Principles, Experiments and
Troubleshooting Techniques*

<http://www.mkp.com/dbtune>

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Database Tuning Principles Experiments And Troubleshooting Techniques

Dennis Shasha,Philippe Bonnet



Database Tuning Principles Experiments And Troubleshooting Techniques:

Database Tuning Dennis Shasha, Philippe Bonnet, 2002-06-07 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 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 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 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 troubleshoot problems

Database Tuning Dennis Shasha, Philippe Bonnet, 1992

Computing Handbook, Third Edition Heikki Topi, Allen Tucker, 2014-05-14 Computing Handbook Third Edition Information Systems and Information Technology demonstrates the richness and breadth of the IS and IT disciplines The second volume of this popular handbook explores their close links to the practice of using managing and developing IT based solutions to advance the goals of modern organizational environments Established leading experts and influential young researchers present introductions to the current status and future directions of research and give in depth perspectives on the contributions of academic research to the practice of IS and IT development use and management Like the first volume this second volume describes what occurs in research laboratories educational institutions and public and private organizations to advance the effective development and use of computers and computing in today s world Research level survey articles provide deep insights into the computing discipline enabling readers to understand the principles and practices that drive computing education research and development in the twenty first century

Computer Science Handbook Allen B. Tucker, 2004-06-28 When you think about how far and fast computer science has progressed in recent years it s not hard to conclude that a seven year old handbook may fall a little short of the kind of reference today s computer scientists software engineers and IT professionals need With a broadened scope more emphasis on applied computing and more than 70 chap

Foundations of Multidimensional and Metric Data Structures Hanan Samet, 2006-08-08 Publisher Description

Data Model Patterns: A Metadata Map David C. Hay, 2010-07-20 Data Model Patterns A Metadata Map not only presents a conceptual model of a metadata repository but also demonstrates a true enterprise data model of the

information technology industry itself It provides a step by step description of the model and is organized so that different readers can benefit from different parts It offers a view of the world being addressed by all the techniques methods and tools of the information processing industry for example object oriented design CASE business process re engineering etc and presents several concepts that need to be addressed by such tools This book is pertinent with companies and government agencies realizing that the data they use represent a significant corporate resource recognize the need to integrate data that has traditionally only been available from disparate sources An important component of this integration is management of the metadata that describe catalogue and provide access to the various forms of underlying business data The metadata repository is essential to keep track of the various physical components of these systems and their semantics The book is ideal for data management professionals data modeling and design professionals and data warehouse and database repository designers A comprehensive work based on the Zachman Framework for information architecture encompassing the Business Owner s Architect s and Designer s views for all columns data activities locations people timing and motivation Provides a step by step description of model and is organized so that different readers can benefit from different parts Provides a view of the world being addressed by all the techniques methods and tools of the information processing industry for example object oriented design CASE business process re engineering etc Presents many concepts that are not currently being addressed by such tools and should be *Data Preparation for Data Mining Using SAS* Mamdouh Refaat,2010-07-27 Are you a data mining analyst who spends up to 80% of your time assuring data quality then preparing that data for developing and deploying predictive models And do you find lots of literature on data mining theory and concepts but when it comes to practical advice on developing good mining views find little how to information And are you like most analysts preparing the data in SAS This book is intended to fill this gap as your source of practical recipes It introduces a framework for the process of data preparation for data mining and presents the detailed implementation of each step in SAS In addition business applications of data mining modeling require you to deal with a large number of variables typically hundreds if not thousands Therefore the book devotes several chapters to the methods of data transformation and variable selection A complete framework for the data preparation process including implementation details for each step The complete SAS implementation code which is readily usable by professional analysts and data miners A unique and comprehensive approach for the treatment of missing values optimal binning and cardinality reduction Assumes minimal proficiency in SAS and includes a quick start chapter on writing SAS macros *Executive MBA in IT - City of London College of Economics - 12 months - 100% online / self-paced* City of London College of Economics, Overview An MBA in information technology or a Master of Business Administration in Information Technology is a degree that will prepare you to be a leader in the IT industry Content Managing Projects and IT Information Systems and Information Technology IT Manager s Handbook Business Process Management Human Resource Management Principles of Marketing The Leadership Just What Does an IT

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 techniques *VLDB 2005* ,2005 **Querying XML** Jim Melton, Stephen Buxton, 2006 One stop shopping what software
 developers and architects need to know to master XML querying and retrieval *Very Large Data Bases* ,2005 American
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SQL Performance Tuning Peter Gultzan,Trudy Pelzer,2003 A very practical guide to making databases run faster and better A poorly performing database application can cost each user time and have an impact on other applications running on the same computer or the same network This book will help DBAUs and programmers improve the performance of their databases

SQL Tuning Dan Tow,2003-11-19 A poorly performing database application not only costs users time but also has an impact on other applications running on the same computer or the same network SQL Tuning provides an essential next step for SQL developers and database administrators who want to extend their SQL tuning expertise and get the most from their database applications There are two basic issues to focus on when tuning SQL how to find and interpret the execution plan of an SQL statement and how to change SQL to get a specific alternate execution plan SQL Tuning provides answers to these questions and addresses a third issue that s even more important how to find the optimal execution plan for the query to use Author Dan Tow outlines a timesaving method he s developed for finding the optimum execution plan rapidly and systematically regardless of the complexity of the SQL or the database platform being used You ll learn how to understand and control SQL execution plans and how to diagram SQL queries to deduce the best execution plan for a query Key chapters in the book include exercises to reinforce the concepts you ve learned SQL Tuning concludes by addressing special concerns and unique solutions to unsolvable problems Whether you are a programmer who develops SQL based applications or a database administrator or

other who troubleshoots poorly tuned applications SQL Tuning will arm you with a reliable and deterministic method for tuning your SQL queries to gain optimal performance

Database Tuning Dennis Elliott Shasha, 1992 Database tuning is the activity of making a database application run more quickly Tuning is difficult because it requires global knowledge of an information system from the hardware to the operating system to the query language to the application This is the first book to deal with tuning object oriented database systems in a serious way Aiming to impart a broad knowledge of applications and of computer systems the book s practical advice helps to decide whether to change the way to construct applications the parameters of database systems the configuration of operating systems the resources that hardware offers or perhaps even replace entire components to boost a database performance

Reviewing **Database Tuning Principles Experiments And Troubleshooting Techniques**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Database Tuning Principles Experiments And Troubleshooting Techniques**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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