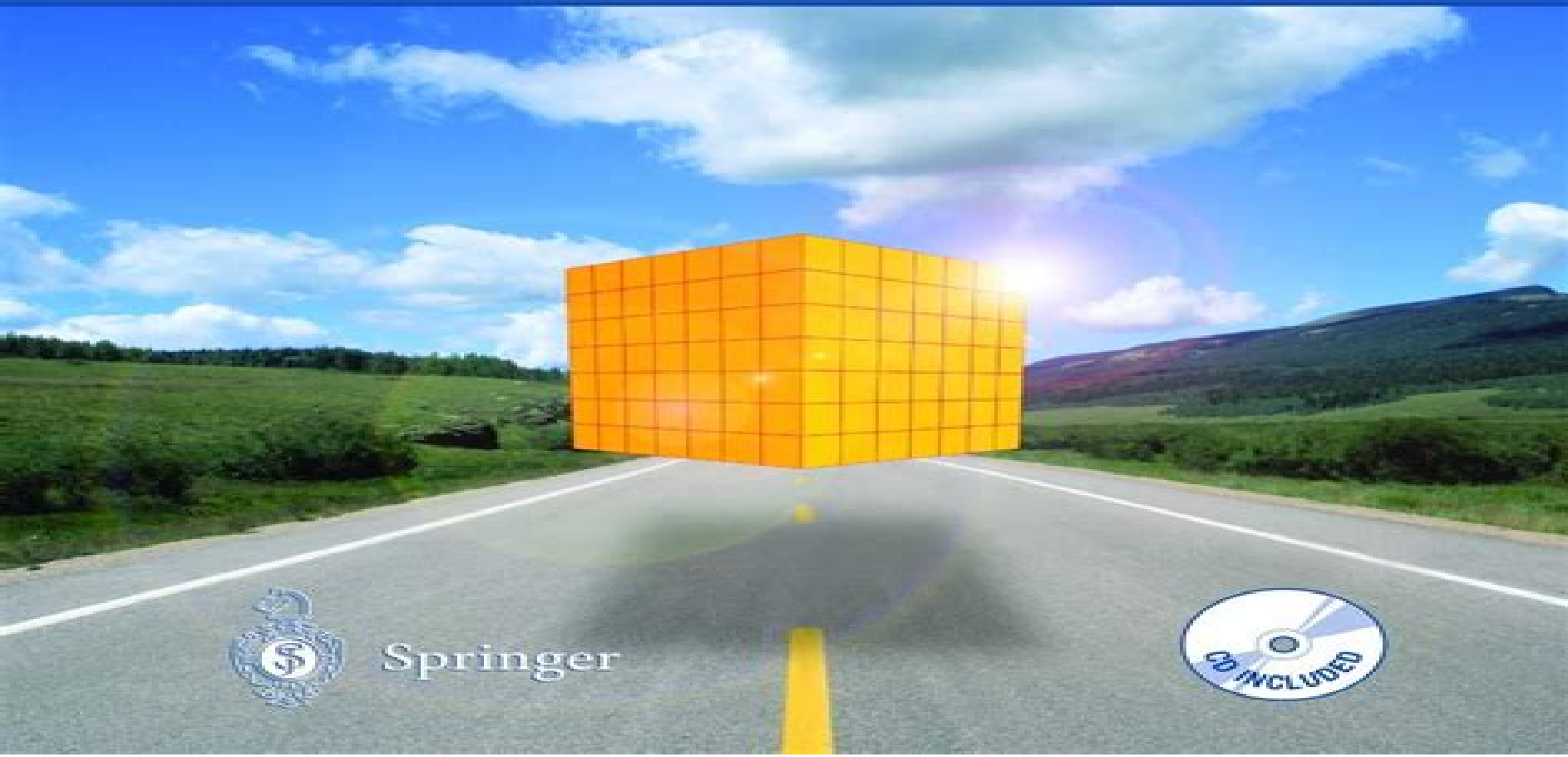


# Fast Track to MDX

Mark Whitehorn, Robert Zare, Mosha Pasumansky



# Fast Track To Mdx

**Doug Harts, Jim Dugan, Tricia Almas**



## **Fast Track To Mdx:**

Fast Track to MDX Mark Whitehorn, Robert Zare, Mosha Pasumansky, 2007-12-29 IloveBusinessIntelligence  
IloveBIbecauseitisallaboutbecomingbetter BI is all about empowering us with knowledge and that knowledge is the power to realize our full potential As Zorge the spy said knowledge is power and who doesn't love to have the power to know to understand and to make intelligent decision I do Since the dawn of the modern information system it was obvious that the information accumulated in the machine is wasted if there is no way to analyze it and learn from it From as early as the 1950s data analysis systems and later decision support systems were designed developed and deployed with that intent However only in the last decade have these systems become both reasonably affordable and mainstream and their business impact indisputable The last decade has also seen the emergence of OLAP as the centerpiece of the BI technologies The OLAP multidimensional databases combine incredible performance with unsurpassed analytical power and in my opinion are the foundation of the BI platform While the performance differences between the multidimensional databases and the traditional relational databases are very significant Moore's law which states that the hardware computing power doubles every 18 months renders this advantage of the OLAP databases temporary Sooner or later the raw computing power of the common server machines will be sufficient to provide the performance needed for sophisticated analysis even when the data is stored in a relational database

**Pro SQL Server 2008 Analysis Services** Philo Janus, Guy Fouche, 2010-08-03 Every business has reams of business data locked away in databases business systems and spreadsheets While you may be able to build some reports by pulling a few of these repositories together actually performing any kind of analysis on the data that runs your business can range from problematic to impossible Pro SQL Server 2008 Analysis Services will show you how to pull that data together and present it for reporting and analysis in a way that makes the data accessible to business users instead of needing to rely on the IT department every time someone needs a different report Accessible With a single author's voice this book conducts a guided tour through the technology that makes it easy to dive into Solution oriented While technically deep the goal is to focus on practical application of the technologies instead of acting as a technical manual Comprehensive This book covers every aspect of analysis services and ancillary technologies to enable you to make the most of SQL Server

**Expert Cube Development with SSAS Multidimensional Models** Chris Webb, Alberto Ferrari, Marco Russo, 2014-02-24 An easy to follow guide full of hands on examples of real world Analysis Services cube development tasks Each topic is explained and placed in context and for the more inquisitive reader there also more in depth details of the concepts used If you are an Analysis Services cube designer wishing to learn more advanced topic and best practices for cube design this book is for you You are expected to have some prior experience with Analysis Services cube development

**The Microsoft Data Warehouse Toolkit** Joy Mundy, Warren Thornthwaite, 2007-12-10 This groundbreaking book is the first in the Kimball Toolkit series to be product specific Microsoft's BI toolset has undergone significant changes in the SQL

Server 2005 development cycle SQL Server 2005 is the first viable full functioned data warehouse and business intelligence platform to be offered at a price that will make data warehousing and business intelligence available to a broad set of organizations This book is meant to offer practical techniques to guide those organizations through the myriad of challenges to true success as measured by contribution to business value Building a data warehousing and business intelligence system is a complex business and engineering effort While there are significant technical challenges to overcome in successfully deploying a data warehouse the authors find that the most common reason for data warehouse project failure is insufficient focus on the business users and business problems In an effort to help people gain success this book takes the proven Business Dimensional Lifecycle approach first described in best selling The Data Warehouse Lifecycle Toolkit and applies it to the Microsoft SQL Server 2005 tool set Beginning with a thorough description of how to gather business requirements the book then works through the details of creating the target dimensional model setting up the data warehouse infrastructure creating the relational atomic database creating the analysis services databases designing and building the standard report set implementing security dealing with metadata managing ongoing maintenance and growing the DW BI system All of these steps tie back to the business requirements Each chapter describes the practical steps in the context of the SQL Server 2005 platform

**Intended Audience** The target audience for this book is the IT department or service provider consultant who is Planning a small to mid range data warehouse project Evaluating or planning to use Microsoft technologies as the primary or exclusive data warehouse server technology Familiar with the general concepts of data warehousing and business intelligence The book will be directed primarily at the project leader and the warehouse developers although everyone involved with a data warehouse project will find the book useful Some of the book s content will be more technical than the typical project leader will need other chapters and sections will focus on business issues that are interesting to a database administrator or programmer as guiding information The book is focused on the mass market where the volume of data in a single application or data mart is less than 500 GB of raw data While the book does discuss issues around handling larger warehouses in the Microsoft environment it is not exclusively or even primarily concerned with the unusual challenges of extremely large datasets

**About the Authors** JOY MUNDY has focused on data warehousing and business intelligence since the early 1990s specializing in business requirements analysis dimensional modeling and business intelligence systems architecture Joy co founded InfoDynamics LLC a data warehouse consulting firm then joined Microsoft WebTV to develop closed loop analytic applications and a packaged data warehouse Before returning to consulting with the Kimball Group in 2004 Joy worked in Microsoft SQL Server product development managing a team that developed the best practices for building business intelligence systems on the Microsoft platform Joy began her career as a business analyst in banking and finance She graduated from Tufts University with a BA in Economics and from Stanford with an MS in Engineering Economic Systems

WARREN THORNTHWAITE has been building data warehousing and business intelligence systems since 1980

Warren worked at Metaphor for eight years where he managed the consulting organization and implemented many major data warehouse systems. After Metaphor, Warren managed the enterprise wide data warehouse development at Stanford University. He then co-founded InfoDynamics LLC, a data warehouse consulting firm, with his co-author Joy Mundy. Warren joined up with WebTV to help build a world class multi-terabyte customer focused data warehouse before returning to consulting with the Kimball Group. In addition to designing data warehouses for a range of industries, Warren speaks at major industry conferences and for leading vendors and is a long time instructor for Kimball University. Warren holds an MBA in Decision Sciences from the University of Pennsylvania's Wharton School and a BA in Communications Studies from the University of Michigan. RALPH KIMBALL, PH.D., has been a leading visionary in the data warehouse industry since 1982 and is one of today's most internationally well known authors, speakers, consultants, and teachers on data warehousing. He writes the Data Warehouse Architect column for Intelligent Enterprise, formerly DBMS magazine. *Expert Cube Development with Microsoft SQL Server 2008 Analysis Services* Chris Webb, Alberto Ferrari, Marco Russo, 2009-07-15. Design and implement fast, scalable and maintainable cubes with Microsoft SQL Server 2008 Analysis Services with this book and eBook.

**Applied Microsoft Analysis Services 2005** Teo Lachev, 2005. Knowledge is power. As its name suggests, the promise of Microsoft SQL Server Analysis Services 2005 is to promote better data analytics by giving information workers the right tool to analyze consistent, timely and reliable data. Empowered with Analysis Services and Microsoft Business Intelligence Platform, you are well positioned to solve the perennial problem with data: that there is too much of it and finding the right information is often difficult if not impossible. *Applied Microsoft Analysis Services 2005* shows database administrators and developers how to build complete OLAP solutions with Microsoft Analysis Services 2005 and Microsoft Business Intelligence Platform. Database administrators will learn how to design and manage sophisticated OLAP cubes that provide rich data analytics and data mining services. The book gives developers the necessary background to extend UDM with custom programming logic in the form of MDX expressions, scripts, and .NET code. It teaches them how to implement a wide range of reporting applications that integrate with Analysis Services Reporting Services and Microsoft Office. This book doesn't assume any prior experience with OLAP and Microsoft Analysis Services. It is designed as an easy-to-follow guide where each chapter builds upon the previous to implement the components of the innovative Unified Dimensional Model (UDM) in a chronological order. New concepts are introduced with step-by-step instructions and hands-on demos. What's Inside:

- o Design sophisticated UDM models
- o Build ETL processes with SSIS
- o Implement data mining tasks
- o Enrich UDM programmatically with MDX
- o Extend UDM with SSAS stored procedures
- o Create rich end-user model
- o Optimize Analysis Services storage and processing
- o Implement dynamic security
- o Build custom OLAP clients
- o Author standard and ad hoc reports with SSRS
- o Build Office-based BI applications and dashboards
- o and much more

**Pro PerformancePoint Server 2007** Philo Janus, 2008-09-26. Pro PerformancePoint Server 2007 is Microsoft's latest product in its line of business intelligence.

applications a piece of software that gathers data from corporate databases and delivers it to an end user in a friendly graphical fashion PerformancePoint offers the next step in the digitization world Businesses now have gigabytes upon terabytes of data in databases there s a need to interpret the data and glean key business insights from it and PerformancePoint Author Philo Janus walks you through the business process management and architecture of the PerformancePoint product before delving into developing a complete business intelligence solution from start to finish

**Mondrian in Action** Julian Hyde,William Back,Nicholas Goodman,2013-09-02 Summary Mondrian in Action teaches business users and developers how to use Mondrian and related tools for strategic business analysis You ll learn how to design and populate a data warehouse and present the data via a multidimensional model You ll follow examples showing how to create a Mondrian schema and then expand it to add basic security based on the users roles About the Technology Mondrian is an open source lightning fast data analysis engine designed to help you explore your business data and perform speed of thought analysis Mondrian can be integrated into a wide variety of business analysis applications and learning it requires no specialized technical knowledge About this Book Mondrian in Action teaches you to use Mondrian for strategic business analysis In it you ll learn how to organize and present data in a multidimensional manner You ll follow apt and thoroughly explained examples showing how to create a Mondrian schema and then expand it to add basic security based on users roles Developers will discover how to integrate Mondrian using its olap4j Java API and web service calls via XML for Analysis Written for developers building data analysis solutions Appropriate for tech savvy business users and DBAs needing to query and report on data Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications What s Inside Mondrian from the ground up no experience required A primer on business analytics Using Mondrian with a variety of leading applications Optimizing and restricting business data for fast secure analysis About the Authors William D Back is an Enterprise Architect and Director of Pentaho Services Nicholas Goodman is a Business Intelligence pro who has authored training courses on OLAP and Mondrian Julian Hyde founded Mondrian and is the project s lead developer Table of Contents Beyond reporting business analytics Mondrian a first look Creating the data mart Multidimensional modeling making analytics data accessible How schemas grow Securing data Maximizing Mondrian performance Dynamic security Working with Mondrian and Pentaho Developing with Mondrian Advanced analytics

**Principles of Biomedical Informatics** Ira J. Kalet,2013-09-26 This second edition of a pioneering technical work in biomedical informatics provides a very readable treatment of the deep computational ideas at the foundation of the field Principles of Biomedical Informatics 2nd Edition is radically reorganized to make it especially useable as a textbook for courses that move beyond the standard introductory material It includes exercises at the end of each chapter ideas for student projects and a number of new topics such as tree structured data interval trees and time oriented medical data and their use On Line Application Processing OLAP an old database idea that is only recently coming of age and finding

surprising importance in biomedical informatics a discussion of nursing knowledge and an example of encoding nursing advice in a rule based system X ray physics and algorithms for cross sectional medical image reconstruction recognizing that this area was one of the most central to the origin of biomedical computing an introduction to Markov processes and an outline of the elements of a hospital IT security program focusing on fundamental ideas rather than specifics of system vulnerabilities or specific technologies It is simultaneously a unified description of the core research concept areas of biomedical data and knowledge representation biomedical information access biomedical decision making and information and technology use in biomedical contexts and a pre eminent teaching reference for the growing number of healthcare and computing professionals embracing computation in health related fields As in the first edition it includes many worked example programs in Common LISP the most powerful and accessible modern language for advanced biomedical concept representation and manipulation The text also includes humor history and anecdotal material to balance the mathematically and computationally intensive development in many of the topic areas The emphasis as in the first edition is on ideas and methods that are likely to be of lasting value not just the popular topics of the day Ira Kalet is Professor Emeritus of Radiation Oncology and of Biomedical Informatics and Medical Education at the University of Washington Until retiring in 2011 he was also an Adjunct Professor in Computer Science and Engineering and Biological Structure From 2005 to 2010 he served as IT Security Director for the University of Washington School of Medicine and its major teaching hospitals He has been a member of the American Medical Informatics Association since 1990 and an elected Fellow of the American College of Medical Informatics since 2011 His research interests include simulation systems for design of radiation treatment for cancer software development methodology and artificial intelligence applications to medicine particularly expert systems ontologies and modeling Develops principles and methods for representing biomedical data using information in context and in decision making and accessing information to assist the medical community in using data to its full potential Provides a series of principles for expressing biomedical data and ideas in a computable form to integrate biological clinical and public health applications Includes a discussion of user interfaces interactive graphics and knowledge resources and reference material on programming languages to provide medical informatics programmers with the technical tools to develop systems **Data**

**Warehousing and Mining: Concepts, Methodologies, Tools, and Applications** Wang, John, 2008-05-31 In recent years the science of managing and analyzing large datasets has emerged as a critical area of research In the race to answer vital questions and make knowledgeable decisions impressive amounts of data are now being generated at a rapid pace increasing the opportunities and challenges associated with the ability to effectively analyze this data [Encyclopedia of Database Technologies and Applications](#) Rivero, Laura C., Doorn, Jorge Horacio, Ferraggine, Viviana E., 2005-06-30 Addresses the evolution of database management technologies and applications along with the progress and endeavors of new research areas P xiii [Data Warehouse Systems](#) Alejandro Vaisman, Esteban Zimányi, 2014-09-10 With this textbook Vaisman and

Zim nyi deliver excellent coverage of data warehousing and business intelligence technologies ranging from the most basic principles to recent findings and applications To this end their work is structured into three parts Part I describes Fundamental Concepts including multi dimensional models conceptual and logical data warehouse design and MDX and SQL OLAP Subsequently Part II details Implementation and Deployment which includes physical data warehouse design data extraction transformation and loading ETL and data analytics Lastly Part III covers Advanced Topics such as spatial data warehouses trajectory data warehouses semantic technologies in data warehouses and novel technologies like Map Reduce column store databases and in memory databases As a key characteristic of the book most of the topics are presented and illustrated using application tools Specifically a case study based on the well known Northwind database illustrates how the concepts presented in the book can be implemented using Microsoft Analysis Services and Pentaho Business Analytics All chapters are summarized using review questions and exercises to support comprehensive student learning Supplemental material to assist instructors using this book as a course text is available at <http://cs.ulb.ac.be/DWSDIbook> including electronic versions of the figures solutions to all exercises and a set of slides accompanying each chapter Overall students practitioners and researchers alike will find this book the most comprehensive reference work on data warehouses with key topics described in a clear and educational style

**Data Warehousing and Knowledge Discovery** Alfredo Cuzzocrea, Umeshwar Dayal, 2011-08-19 This book constitutes the refereed proceedings of the 13th International Conference on Data Warehousing and Knowledge Discovery DaWak 2011 held in Toulouse France in August September 2011 The 37 revised full papers presented were carefully reviewed and selected from 119 submissions The papers are organized in topical sections on physical and conceptual data warehouse models data warehousing design methodologies and tools data warehouse performance and optimization pattern mining matrix based mining techniques and stream sensor and time series mining

*Data Warehousing and Knowledge Discovery* Torben Bach Pedersen, Mukesh K. Mohania, A Min Tjoa, 2010-08-18 This book constitutes the refereed proceedings of the 12th International Conference on Data Warehousing and Knowledge Discovery DaWak 2010 held in Bilbao Spain in August September 2010 The 26 revised full papers presented were carefully reviewed and selected from 112 submissions The papers cover a wide range of topics within cloud intelligence data warehousing knowledge discovery and applications

*Data Warehousing and Knowledge Discovery* Ladjel Bellatreche, Mukesh K. Mohania, 2013-08-23 This book constitutes the refereed proceedings of the 15th International Conference on Data Warehousing and Knowledge Discovery DaWak 2013 held in Prague Czech Republic in August 2013 The 24 revised full papers and 8 short papers presented were carefully reviewed and selected from 89 submissions The papers are organized in topical sections on modeling and ETL query optimization and parallelism spatial data warehouses and applications text mining and OLAP recommendation and prediction data mining optimization and machine learning techniques mining and processing data streams clustering and data mining applications social network and graph mining and



event sequence and Web mining

### **Transactions on Large-Scale Data- and Knowledge-Centered Systems VIII**

Abdelkader Hameurlain, Josef Küng, Roland Wagner, Alfredo Cuzzocrea, Umeshwar Dayal, 2013-04-18 The LNCS journal Transactions on Large Scale Data and Knowledge Centered Systems focuses on data management knowledge discovery and knowledge processing which are core and hot topics in computer science Since the 1990s the Internet has become the main driving force behind application development in all domains An increase in the demand for resource sharing across different sites connected through networks has led to an evolution of data and knowledge management systems from centralized systems to decentralized systems enabling large scale distributed applications providing high scalability Current decentralized systems still focus on data and knowledge as their main resource Feasibility of these systems relies basically on P2P peer to peer techniques and the support of agent systems with scaling and decentralized control Synergy between grids P2P systems and agent technologies is the key to data and knowledge centered systems in large scale environments This the eighth issue of Transactions on Large Scale Data and Knowledge Centered Systems contains eight revised selected regular papers focusing on the following topics scalable data warehousing via MapReduce extended OLAP multidimensional models naive OLAP engines and their optimization advanced data stream processing and mining semi supervised learning of data streams incremental pattern mining over data streams association rule mining over data streams frequent pattern discovery over data streams

Microsoft® SQL Server 2008 R2 Analytics & Data Visualization Doug Harts, Jim Dugan, Tricia Almas, 2010-09-30 Master the Next Generation Business Intelligence Tools in SQL Server 2008 R2 Effectively convey meaningful business insights to users across your enterprise with help from this practical guide Written by a team of business intelligence experts Microsoft SQL Server 2008 R2 Analytics Data Visualization shows how to achieve greater information absorption using the latest reporting tools Learn how to build maps and gauges integrate OLAP data and develop dashboards Security performance tuning and cloud computing techniques are also covered in this comprehensive resource Design and deploy chart based reports using SSRS 2008 R2 Display geo spatial map data with location based indicators Visually represent metrics and KPIs on graphs and gauges Distribute reports through SharePoint and PerformancePoint Create and publish web page parts dashboards and mash ups Set up and manage cloud based services using SQL Azure Incorporate data mining and forecasting features with Visio Integrate large amounts of data using PowerPoint for Excel Derive matrix table and chart data from OLAP cubes Doug Harts is a Services Executive at Microsoft currently helping U S Federal agencies implement Microsoft technology roadmaps He is the author of Microsoft Office 2007 Business Intelligence and maintains a BI community website at [www.OfficeBICentral.com](http://www.OfficeBICentral.com) Jim Dugan is a Solutions Architect with the Microsoft Healthcare and Benefits team in Microsoft Federal He previously served as Technical Director of Microsoft's Technology and Innovation Center in Reston Virginia Tricia Wilcox Almas is a Technical Architect for Business Intelligence Solutions for MicroLink LLC a Microsoft Gold Partner She has been developing solutions and managing IT projects for more than 25 years

**General Principles of Tumor Immunotherapy** Howard L. Kaufman, Jedd D. Wolchok, 2007-10-22 This book brings together the world's leading authorities on tumor immunology. This book describes the basic immunology principles that form the foundation of understanding how the immune system recognizes and rejects tumor cells. The role of the innate and adaptive immune responses is discussed and the implications of these responses for the design of clinical strategies to combat cancer are illustrated.

**The Routledge International Handbook of Social Work Teaching** Jarosław Przeperski, Rajendra Baikady, 2024-04-09 This handbook is a comprehensive text on social work education based on the narratives of social work educators, practitioners and researchers from Asia and the Pacific, North and South America, Australia and Oceania, and Europe. It discusses innovations, challenges, pedagogy and tested methods of social work teaching at various levels of educational programmes. The volume examines key concepts that underpin debates concerning social work teaching, research and practice. Brings out key concerns, debates and narratives concerning various teaching, learning and pedagogical methods from different countries. Documents principal perspectives of different stakeholders involved in social work education from educators and practitioners to novice social workers. The Routledge International Handbook of Social Work Teaching will be an effective instrument in informing policy decisions related to social work teaching and pedagogy at the global and local levels. It will be essential for educators, researchers and practitioners within social work institutions and for professional associations around the world.

**Professional Microsoft SQL Server Analysis Services 2008 with MDX** Sivakumar Harinath, Robert Zare, Sethu Meenakshisundaram, Matt Carroll, Denny Guang-Yeu Lee, 2011-01-31 When used with the MDX query language, SQL Server Analysis Services allows developers to build full-scale database applications to support such business functions as budgeting, forecasting and market analysis. Shows readers how to build data warehouses and multi-dimensional databases, query databases and use Analysis Services and other components of SQL Server to provide end-to-end solutions. Revised, updated and enhanced, the book discusses new features such as improved integration with Office and Excel 2007, query performance enhancements, improvements to aggregation designer, dimension designer, cube and dimension wizards, and cell writeback, extensibility and personalization, data mining and more.

## Reviewing **Fast Track To Mdx**: 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 really astonishing. Within the pages of "**Fast Track To Mdx**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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