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Joe Celko's Analytics and OLAP in SQL Data Warehouses and OLAP The Multidimensional Data Modeling Toolkit New Trends in Data Warehousing and Data Analysis The Analytical Puzzle SQL Server's Developer's Guide to OLAP with Analysis Services Data Warehousing and Analytics Progressive Methods in Data Warehousing and Business Intelligence: Concepts and Competitive Analytics On-line Analytical Processing Systems for Business Utilizing Big Data Paradigms for Business Intelligence OLAP Services Guide for MicroStrategy Analytics Enterprise Unlocking OLAP with Microsoft SQL Server and Excel 2000 Learn Data Warehousing in 24 Hours Data Warehousing, Data Mining, and OLAP It's All Analytics! Fast Track to MDX OLAP Solutions Advanced Data Warehouse Design Applied Microsoft Analysis Services 2005 and Microsoft Business Intelligence Platform Human Capital Systems, Analytics, and Data Mining Business Intelligence For Dummies Data Warehouse Systems A Practical Guide to Microsoft OLAP Server Olap 26 Success Secrets - 26 Most Asked Questions on Olap - What You Need to Know Using On-Line Analytical Processing (OLAP) and Data Mining to Estimate Emergency Room Activity in DoD Medical Treatment Facilities in the Tricare Central Region Big Data Analytics and Knowledge Discovery Human Capital Systems, Analytics, and Data Mining It's All Analytics! Etl - Extract, Transform, Load Digital Analytics Microsoft Business Intelligence Tools for Excel Analysts Mastering Predictive Analytics with R Process Analytics Analyzing Analytics Design and Implementation of Data Analysis Components Visual Analytics and Interactive Technologies: Data, Text and Web Mining Applications Tiny Book on Data & Analytics Data Analytics SQL on Big Data Oracle Essbase & Oracle OLAP

Joe Celko's Analytics and OLAP in SQL Apr 28 2023 Joe Celko's Analytics and OLAP in SQL is the first book that teaches 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. 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 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 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

Design and Implementation of Data Analysis Components May 25 2020 "This thesis describes the design and implementation of the data analysis components. Many features of modern database systems facilitate the decision-making process. Recently, Online Analytical Processing (OLAP) and data mining are increasingly being used in a wide range of applications. OLAP allows users to analyze data from a wide variety of viewpoints. Data mining is the process of selecting, exploring, and modeling large amounts of data to discover previously unknown patterns for business advantage. Microsoft SQL server 2000 Analysis Services provides a rich set of tools to create and to maintain OLAP and data mining objects. In order to use these tools, users need to fully understand the underlying architecture

and the specialized technological terms, which are not related to the data analysis. The complexities in the development challenges prevent the data analysts to use these tools effectively. In this work, we developed several components, which can be used as the foundation in the analytical applications. Using these components in the software applications can hide the technical complexities and can provide tools to build the OLAP and mining model and to access data information from these model systems. Developers can also reuse these components without coding from scratch. The reusability of these components enhances the application's reliability and reduces the development costs and time."--abstract.

It's All Analytics Feb 14 2022 It's All Analytics! The Foundations of AI, Big Data and Data Science Landscape for Professionals in Healthcare, Business, and Government (978-0-367-35968-3, 325690) Professionals are challenged each day by a changing landscape of technology and terminology. In recent history, especially in the last 25 years, there has been an explosion of terms and methods that automate and improve decision-making and operations. One term, "analytics," is an overarching description of a compilation of methodologies. But AI (artificial intelligence), statistics, decision science and optimization, which have been around for decades, have resurged. Also, things like business intelligence, online analytical processing (OLAP) and many, many more have been born or reborn. How is someone to make sense of all this methodology and terminology? This book, the first in a series of three, provides a look at the foundations of artificial intelligence and analytics and why readers need an unbiased understanding of the subject. The authors include the basics such as algorithms, mental concepts, models, and paradigms in addition to the benefits of machine learning. The book also includes a chapter on data and the various forms of data. The authors wrap up this book with a look at the next frontiers such as applications and designing your environment for success, which segue into the topics of the next two books in the series.

Digital Analytics Oct 30 2020 SALIENT FEATURES OF BOOK • Easy to understand language with simple real life examples. • Primarily focused on Ecommerce and Retail industry. • Stepwise explanation of very basic to the complex of the statistical analysis. • All examples are solved using R and Excel or both. • Step by Step description of Pentaho BI Implementation - ETL, Report, OLAP & Dashboard. • Comprehensive coverage of topics including Probability Theories, Operation Analytics, Digital Marketing, BI Implementation, Web Analytics, Forecasting, Customer Analytics & Optimization. Application focus on current Digital Analytics Practices.

Visual Analytics and Interactive Technologies: Data, Text and Web Mining Applications Apr 23 2020 "This book is a comprehensive reference on concepts, algorithms, theories, applications, software, and visualization of data mining, text mining, Web mining and computing/supercomputing, covering state-of-the-art of the theory and applications of mining"--

SQL on Big Data Jan 21 2020 Learn various commercial and open source products that perform SQL on Big Data platforms. You will understand the architectures of the various SQL engines being used and how the tools work internally in terms of execution, data movement, latency, scalability, performance, and system requirements. This book consolidates in one place solutions to the challenge associated with the requirements of speed, scalability, and the variety of operations needed for data integration and SQL operations. After discussing the history of the how and why of SQL on Big Data, the book provides in-depth insight into the products, architectures, and innovations happening in this rapidly evolving space. SQL on Big Data discusses in detail the innovations happening, the capabilities on the horizon, and how they solve the issues of performance and scalability and the ability to handle different data types. The book covers how SQL on Big Data engines are permeating the OLTP, OLAP, and Operational analytics space and the rapidly evolving HTAP systems. You will learn the details of: Batch Architectures—Understand the internals and how the existing Hive engine is built and how it is evolving continually to support new features and provide lower latency on queries Interactive Architectures—Understanding how SQL engines are architected to support low latency on large data sets Streaming Architectures—Understanding how SQL engines are architected to support queries on data in motion using in-memory and lock-free data structures Operational Architectures—Understanding

how SQL engines are architected for transactional and operational systems to support transactions on Big Data platforms Innovative Architectures—Explore the rapidly evolving newer SQL engines on Big Data with innovative ideas and concepts Who This Book Is For: Business analysts, BI engineers, developers, data scientists and architects, and quality assurance professionals/div

Human Capital Systems, Analytics, and Data Mining Feb 02 2021 Human Capital Systems, Analytics, and Data Mining provides human capital professionals, researchers, and students with a comprehensive and portable guide to human capital systems, analytics and data mining. The main purpose of this book is to provide a rich tool set of methods and tutorials for Human Capital Management Systems (HCMS) database modeling, analytics, interactive dashboards, and data mining that is independent of any human capital software vendor offerings and is equally usable and portable among both commercial and internally developed HCMS. The book begins with an overview of HCMS, including coverage of human resource systems history and current HCMS Computing Environments. It next explores relational and dimensional database management concepts and principles. HCMS Instructional databases developed by the Author for use in Graduate Level HCMS and Compensation Courses are used for database modeling and dashboard design exercises. Exciting knowledge discovery and research Tutorials and Exercises using Online Analytical Processing (OLAP) and data mining tools through replication of actual original pay equity research by the author are included. New findings concerning Gender Based Pay Equity Research through the lens Comparable Worth and Occupational Mobility are covered extensively in Human Capital Metrics, Analytics and Data Mining Chapters.

Data Warehouse Systems Jul 07 2021 With this textbook, Vaisman and Zimányi 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 conceptual and logical data warehouse design, as well as querying using MDX, DAX and SQL/OLAP. This part also covers data analytics using Power BI and Analysis Services. Part II details “Implementation and Deployment,” including physical design, ETL and data warehouse design methodologies. Part III covers “Advanced Topics” and it is almost completely new in this second edition. This part includes chapters with an in-depth coverage of temporal, spatial, and mobility data warehousing. Graph data warehouses are also covered in detail using Neo4j. The last chapter extensively studies big data management and the usage of Hadoop, Spark, distributed, in-memory, columnar, NoSQL and NewSQL database systems, and data lakes in the context of analytical data processing. 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 Power BI. All chapters have been revised and updated to the latest versions of the software tools used. KPIs and Dashboards are now also developed using DAX and Power BI, and the chapter on ETL has been expanded with the implementation of ETL processes in PostgreSQL. Review questions and exercises complement each chapter to support comprehensive student learning. Supplemental material to assist instructors using this book as a course text is available online and includes 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. “I can only invite you to dive into the contents of the book, feeling certain that once you have completed its reading (or maybe, targeted parts of it), you will join me in expressing our gratitude to Alejandro and Esteban, for providing such a comprehensive textbook for the field of data warehousing in the first place, and for keeping it up to date with the recent developments, in this current second edition.” From the foreword by Panos Vassiliadis, University of Ioannina, Greece.

Utilizing Big Data Paradigms for Business Intelligence Jul 19 2022 Because efficient compilation of information allows managers and business leaders to make the best decisions for the financial solvency of their organizations, data analysis is an important part of modern business administration.

Understanding the use of analytics, reporting, and data mining in everyday business environments is imperative to the success of modern businesses. Utilizing Big Data Paradigms for Business Intelligence is a pivotal reference source that provides vital research on how to address the challenges of data extraction in business intelligence using the five "Vs" of big data: velocity, volume, value, variety, and veracity. This book is ideally designed for business analysts, investors, corporate managers, entrepreneurs, and researchers in the fields of computer science, data science, and business intelligence.

Unlocking OLAP with Microsoft SQL Server and Excel 2000 2007 2022 There's so much information inside your database, but how do you get at it and use it successfully? With this guide to Online Analytical Processing (OLAP) tools, you can forego programming and custom data warehousing and tap into the power of Microsoft SQL Server technology. You can build your own data warehouse using the Enterprise Manager tool in SQL Server and pull out what you need using SQL Server Query Analyzer and English Query tools. What's more, Excel 2000, in tandem with these tools, serves up your data in multidimensional, mission-specific reports. The CD-ROM includes extensive sample databases and an evaluation edition of Microsoft SQL Server 7.0.

Learn Data Warehousing in 24 Hours Apr 16 2022 Unlike popular belief, Data Warehouse is not a single tool but a collection of software tools. A data warehouse will collect data from diverse sources into a single database. Using Business Intelligence tools, meaningful insights are drawn from this data. The best thing about "Learn Data Warehousing in 1 Day" is that it is small and can be completed in a day. With this e-book, you will be enough knowledge to contribute and participate in a Data warehouse implementation project. The book covers upcoming and promising technologies like Data Lakes, Data Mart, ELT (Extract Load Transform) amongst others. Following are detailed topics included in the book
Table Of Content Chapter 1: What Is Data Warehouse? 1. What is Data Warehouse? 2. Types of Data Warehouse 3. Who needs Data warehouse? 4. Why We Need Data Warehouse? 5. Data Warehouse Tools Chapter 2: Data Warehouse Architecture 1. Characteristics of Data warehouse 2. Data Warehouse Architectures 3. Datawarehouse Components 4. Query Tools Chapter 3: ETL Process 1. What is ETL? 2. Why do you need ETL? 3. ETL Process 4. ETL tools Chapter 4: ETL Vs ELT 1. What is ETL? 2. Difference between ETL vs. ELT Chapter 5: Data Modeling 1. What is Data Modelling? 2. Types of Data Models 3. Characteristics of a physical data model Chapter 6: OLAP 1. What is Online Analytical Processing? 2. Types of OLAP systems 3. Advantages and Disadvantages of OLAP Chapter 7: Multidimensional Olap (MOLAP) 1. What is MOLAP? 2. MOLAP Architecture 3. MOLAP Tools Chapter 8: OLAP Vs OLTP 1. What is the meaning of OLAP? 2. What is the meaning of OLTP? 3. Difference between OLTP and OLAP Chapter 9: Dimensional Modeling 1. What is Dimensional Model? 2. Elements of Dimensional Data Model 3. Attributes 4. Difference between Dimension table vs. Fact table 5. Steps of Dimensional Modelling 6. Rules for Dimensional Modelling Chapter 10: Star and Snowflake Schema 1. What is Multidimensional schemas? 2. What is a Star Schema? 3. What is a Snowflake Schema? 4. Difference between Start Schema and Snowflake Chapter 11: Data Mart 1. What is Data Mart? 2. Type of Data Mart 3. Steps in Implementing a Datamart Chapter 12: Data Mart Vs Data Warehouse 1. What is Data Warehouse? 2. What is Data Mart? 3. Differences between a Data Warehouse and a Data Mart Chapter 13: Data Lake 1. What is Data Lake? 2. Data Lake Architecture 3. Key Data Lake Concepts 4. Maturity stages of Data Lake Chapter 14: Data Lake Vs Data Warehouse 1. What is Data Warehouse? 2. What is Data Lake? 3. Key Difference between the Data Lake and Data Warehouse Chapter 15: What Is Business Intelligence? 1. What is Business Intelligence 2. Why is BI important? 3. How Business Intelligence systems are implemented? 4. Four types of BI users Chapter 16: Data Mining 1. What is Data Mining? 2. Types of Data 3. Data Mining Process 4. Modelling 5. Data Mining Techniques Chapter 17: Data Warehousing Vs Data Mining 1. What is Data warehouse? 2. What Is Data Mining? 3. Difference between Data mining and Data Warehousing?

Tiny Book on Data & Analytics Mar 23 2020 In today's world, data and analytics are the rave and the main driver in many decisions. Organizations want to be data-driven and provide value by leveraging their data. Tiny Book on Data & Analytics introduces basic concepts to enable practitioners and

organizations to make the most of their data. Topics covered include the value of data, types of data, analytics, types of analysis, concepts of data warehousing, and OLAP. Whether you are just beginning or are a seasoned professional, the concepts and topics here serve as a guide and reference in the pursuit of becoming a data-driven and better data practitioner. Topics covered include 1. What is Data 2. What is Analytics 3. Categories and Types of Data 4. Quality of Data 5. Value of Data 6. Common Query Methods 8. OLAP 9. Data Governance 10. Analytics Customers

Process Analytics Jul 27 2020 This book starts with an introduction to process modeling and process paradigms, then explains how to query and analyze process models, and how to analyze the process execution data. In this way, readers receive a comprehensive overview of what is needed to identify, understand and improve business processes. The book chiefly focuses on concepts, techniques and methods. It covers a large body of knowledge on process analytics – including process data querying, analysis, matching and correlating process data and models – to help practitioners and researchers understand the underlying concepts, problems, methods, tools and techniques involved in modern process analytics. Following an introduction to basic business process and process analytics concepts, it describes the state of the art in this area before examining different analytics techniques in detail. In this regard, the book covers analytics over different levels of process abstractions, from process execution data and methods for linking and correlating process execution data, to inferring process models, querying process execution data and process models, and scalable process data analytics methods. In addition, it provides a review of commercial process analytics tools and their practical applications. The book is intended for a broad readership interested in business process management and process analytics. It provides researchers with an introduction to these fields by comprehensively classifying the current state of research, by describing in-depth techniques and methods, and by highlighting future research directions. Lecturers will find a wealth of material to choose from for a variety of courses, ranging from undergraduate courses in business process management to graduate courses in business process analytics. Lastly, it offers professionals a reference guide to the state of the art in commercial tools and techniques, complemented by many real-world use case scenarios.

Data Warehousing and Analytics Oct 22 2022 This textbook covers all central activities of data warehousing and analytics, including transformation, preparation, aggregation, integration, and analysis. It discusses the full spectrum of the journey of data from operational/transactional databases to data warehouses and data analytics; as well as the role that data warehousing plays in the data processing lifecycle. It also explains in detail how data warehouses may be used by data engines, such as BI tools and analytics algorithms to produce reports, dashboards, patterns, and other useful information and knowledge. The book is divided into six parts, ranging from the basics of data warehouse design (Part I - Star Schema, Part II - Snowflake and Bridge Tables, Part III - Advanced Dimensions, and Part IV - Multi-Fact and Multi-Input), to more advanced data warehousing concepts (Part V - Data Warehousing and Evolution) and data analytics (Part VI - OLAP, BI, and Analytics). This textbook approaches data warehousing from the case study angle. Each chapter presents one or more case studies to thoroughly explain the concepts and has different levels of difficulty, hence learning is incremental. In addition, every chapter has also a section on further readings which give pointers and references to research papers related to the chapter. All these features make the book ideally suited either introductory courses on data warehousing and data analytics, or even for self-studies by professionals. The book is accompanied by a web page that includes all the used datasets and codes as well as slides and solutions to exercises.

Data Warehousing, Data Mining, and OLAP Par 15 2022 "Data Warehousing" is the nuts-and-bolts guide to designing a data management system using data warehousing, data mining, and online analytical processing (OLAP) and how successfully integrating these three technologies can give business a competitive edge.

It's All Analytics Jan 01 2021 "Professionals are challenged each day by a changing landscape of technology and terminology. In recent history, especially the last 25 years there has been an explosion of terms and methods born that automate and improve decision-making and operations. One term

called Analytics is an overarching description of a compilation of methodologies. But, AI (Artificial Intelligence), statistics, decision science, optimization which have been around for decades has resurged. Also, things like business intelligence, On-line Analytical Processing (OLAP) and many, many more have been born or reborn. How is someone to make sense of all this methodology, terminology? This book, the first in a series of three, provides a look at the foundations of artificial intelligence and analytics and why readers need an unbiased understanding of the subject. The authors include the basics such as algorithms, mental concepts, models, and paradigms in addition to the benefits of machine learning. The book also includes a chapter on data and the various forms of data. The authors wrap up this book with a look at next frontiers such as applications and designing your environment for success, which segue into the topics of the next two books in the series"--

OLAP Solutions Dec 12 2021 OLAP enables users to access information from multidimensional datawarehouses almost instantly, to view information in any way they like, and to cleanly specify and carry out sophisticated calculations. Although many commercial OLAP tools and products are now available, OLAP is still a difficult and complex technology to master. Substantially updated with expanded coverage of implementation methods for data storage, access, and calculation; also, new chapters added to combine OLAP with data warehouse, mining, and decision support tools Teaches the best practices for building OLAP models that improve business and organizational decision-making, completely independent of commercial tools, using revised case studies Companion Web site provides updates on OLAP standards and tools, code examples, and links to valuable resources

Big Data Analytics and Knowledge Discovery Mar 03 2021 This book constitutes the refereed proceedings of the 21st International Conference on Big Data Analytics and Knowledge Discovery, DaWaK 2019, held in Linz, Austria, in September 2019. The 12 full papers and 10 short papers presented were carefully reviewed and selected from 61 submissions. The papers are organized in the following topical sections: Applications; patterns; RDF and streams; big data systems; graphs and machine learning; databases.

Data Analytics Feb 20 2020 This book constitutes the refereed conference proceedings of the 31st British International Conference on Databases, BICOD 2017 - formerly known as BNCOD (British National Conference on Databases) - held in London, UK, in July 2017. The 17 revised full papers were carefully reviewed and selected from numerous submissions. The papers cover a wide range of topics such as data cleansing, data integration, data wrangling, data mining and knowledge discovery, graph data and knowledge graphs, intelligent data analysis, approximate and flexible querying, data provenance and ontology-based data access. They are organized in the following topical sections: data wrangling and data integration; data analysis and data mining; graph data querying and analysis; multidimensional data and data quality; and distributed and multimedia data management.

Data Warehouses and OLAP Mar 27 2023 Data warehouses and online analytical processing (OLAP) are emerging key technologies for enterprise decision support systems. They provide sophisticated technologies from data integration, data collection and retrieval, query optimization, and data analysis to advanced user interfaces. New research and technological achievements in the area of data warehousing are implemented in commercial database management systems, and organizations are developing data warehouse systems into their information system infrastructures. Data Warehouses and OLAP: Concepts, Architectures and Solutions covers a wide range of technical, technological, and research issues. It provides theoretical frameworks, presents challenges and their possible solutions, and examines the latest empirical research findings in the area. It is a resource of possible solutions and technologies that can be applied when designing, implementing, and deploying a data warehouse, and assists in the dissemination of knowledge in this field.

Oracle Essbase & Oracle OLAP Dec 20 2019 The only book to cover and compare Oracle's online analytic processing products With the acquisition of Hyperion Systems in 2007, Oracle finds itself owning the two most capable OLAP products on the market--Essbase and the OLAP Option to the Oracle Database. Written by the most knowledgeable experts on both Essbase and Oracle OLAP, this Oracle Press guide explains how these products are similar and how they differ. Oracle Essbase &

Oracle OLAP will help you architect the Oracle OLAP product that is most appropriate for your application, and build, tune, and maintain OLAP solutions.

Aug 08 2021 You're intelligent, right? So you've already figured out that Business Intelligence can be pretty valuable in making the right decisions about your business. But you've heard at least a dozen definitions of what it is, and heard of at least that many BI tools. Where do you start? Business Intelligence For Dummies makes BI understandable! It takes you step by step through the technologies and the alphabet soup, so you can choose the right technology and implement a successful BI environment. You'll see how the applications and technologies work together to access, analyze, and present data that you can use to make better decisions about your products, customers, competitors, and more. You'll find out how to: Understand the principles and practical elements of BI Determine what your business needs Compare different approaches to BI Build a solid BI architecture and roadmap Design, develop, and deploy your BI plan Relate BI to data warehousing, ERP, CRM, and e-commerce Analyze emerging trends and developing BI tools to see what else may be useful Whether you're the business owner or the person charged with developing and implementing a BI strategy, checking out Business Intelligence For Dummies is a good business decision.

Aug 20 2022 On-line analytical processing (OLAP) is an approach to information system technology which provides users with rapid retrieval of data from organizational databases and data warehouses. This text looks at the way OLAP works and its benefits to aid users in the public and private sectors

Nov 11 2021 This exceptional work provides readers with an introduction to the state-of-the-art research on data warehouse design, with many references to more detailed sources. It offers a clear and a concise presentation of the major concepts and results in the subject area. Malinowski and Zimányi explain conventional data warehouse design in detail, and additionally address two innovative domains recently introduced to extend the capabilities of data warehouse systems: namely, the management of spatial and temporal information.

Sept 28 2020 Bridge the big data gap with Microsoft Business Intelligence Tools for Excel Analysts The distinction between departmental reporting done by business analysts with Excel and the enterprise reporting done by IT departments with SQL Server and SharePoint tools is more blurry now than ever before. With the introduction of robust new features like PowerPivot and Power View, it is essential for business analysts to get up to speed with big data tools that in the past have been reserved for IT professionals. Written by a team of Business Intelligence experts, Microsoft Business Intelligence Tools for Excel Analysts introduces business analysts to the rich toolset and reporting capabilities that can be leveraged to more effectively source and incorporate large datasets in their analytics while saving them time and simplifying the reporting process. Walks you step-by-step through important BI tools like PowerPivot, SQL Server, and SharePoint and shows you how to move data back and forth between these tools and Excel Shows you how to leverage relational databases, slice data into various views to gain different visibility perspectives, create eye-catching visualizations and dashboards, automate SQL Server data retrieval and integration, and publish dashboards and reports to the web Details how you can use SQL Server's built-in functions to analyze large amounts of data, Excel pivot tables to access and report OLAP data and PowerPivot to create powerful reporting mechanisms You'll get on top of the Microsoft BI stack and all it can do to enhance Excel data analysis with this one-of-a-kind guide written for Excel analysts just like you.

Jan 25 2023 Most of modern enterprises, institutions, and organizations rely on knowledge-based management systems. In these systems, knowledge is gained from data analysis. Today, knowledge-based management systems include data warehouses as their core components. Data integrated in a data warehouse are analyzed by the so-called On-Line Analytical Processing (OLAP) applications designed to discover trends, patterns of behavior, and anomalies as well as finding dependencies between data. Massive amounts of integrated data and the complexity of integrated data coming from many different sources make data integration

and processing challenging. *New Trends in Data Warehousing and Data Analysis* brings together the most recent research and practical achievements in the DW and OLAP technologies. It provides an up-to-date bibliography of published works and the resource of research achievements. Finally, the book assists in the dissemination of knowledge in the field of advanced DW and OLAP.

The Multidimensional Data Modeling Toolkit Feb 26 2023 *The Multi-dimensional Data Modeling Toolkit* represents over 15 years of hands-on experience developing multidimensional analytic applications for over a dozen companies in a variety of application areas. Written in a tutorial style, this book gives, in plain English, a step-by-step development of the defining principles of OLAP analysis through the lens of the programming language at the heart of Oracle's OLAP database option. You will find this book packed with examples, tricks and techniques, concrete illustrations of the programming elements needed to implement. The basics will all be there as well as advanced techniques that you can use to address the most demanding requirements. OLAP will be addressed as an analysis platform. You will learn how to make business intelligence applications smarter by upping the analytical octane. You will learn both the classic applications of OLAP analysis as well as more exotic approaches. You will learn where OLAP fits in among other analytical approaches such as statistics and data mining. So whether you are a developer wanting to learn Oracle's counterpart to Microsoft's MDX, or an analyst wanting understand the quantitative possibilities of OLAP, *The Multi-dimensional Data Modeling Toolkit* will show you what you need to know to go from beginner to expert in the application of OLAP analytics with Oracle OLAP DML.

Applied Microsoft Analysis Services 2005 and Microsoft Business Intelligence Platform Oct 10 2021 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

OLAP Services Guide for MicroStrategy Analytics Enterprise June 18 2022 *The OLAP Services Guide* covers information on MicroStrategy OLAP Services, which is an extension of MicroStrategy Intelligence Server. OLAP Services features include Intelligent Cubes, derived metrics, derived elements, dynamic aggregation, view filters, and dynamic sourcing.

Human Capital Systems, Analytics, and Data Mining Sep 09 2021 *Human Capital Systems, Analytics, and Data Mining* provides human capital professionals, researchers, and students with a comprehensive and portable guide to human capital systems, analytics and data mining. The main purpose of this book is to provide a rich tool set of methods and tutorials for Human Capital Management Systems (HCMS) database modeling, analytics, interactive dashboards, and data mining that is independent of any human capital software vendor offerings and is equally usable and portable

among both commercial and internally developed HCMS. The book begins with an overview of HCMS, including coverage of human resource systems history and current HCMS Computing Environments. It next explores relational and dimensional database management concepts and principles. HCMS Instructional databases developed by the Author for use in Graduate Level HCMS and Compensation Courses are used for database modeling and dashboard design exercises. Exciting knowledge discovery and research Tutorials and Exercises using Online Analytical Processing (OLAP) and data mining tools through replication of actual original pay equity research by the author are included. New findings concerning Gender Based Pay Equity Research through the lens Comparable Worth and Occupational Mobility are covered extensively in Human Capital Metrics, Analytics and Data Mining Chapters.

Mastering Predictive Analytics with R Aug 28 2020 Master the craft of predictive modeling in R by developing strategy, intuition, and a solid foundation in essential concepts About This Book Grasping the major methods of predictive modeling and moving beyond black box thinking to a deeper level of understanding Leveraging the flexibility and modularity of R to experiment with a range of different techniques and data types Packed with practical advice and tips explaining important concepts and best practices to help you understand quickly and easily Who This Book Is For Although budding data scientists, predictive modelers, or quantitative analysts with only basic exposure to R and statistics will find this book to be useful, the experienced data scientist professional wishing to attain master level status, will also find this book extremely valuable.. This book assumes familiarity with the fundamentals of R, such as the main data types, simple functions, and how to move data around. Although no prior experience with machine learning or predictive modeling is required, there are some advanced topics provided that will require more than novice exposure. What You Will Learn Master the steps involved in the predictive modeling process Grow your expertise in using R and its diverse range of packages Learn how to classify predictive models and distinguish which models are suitable for a particular problem Understand steps for tidying data and improving the performing metrics Recognize the assumptions, strengths, and weaknesses of a predictive model Understand how and why each predictive model works in R Select appropriate metrics to assess the performance of different types of predictive model Explore word embedding and recurrent neural networks in R Train models in R that can work on very large datasets In Detail R offers a free and open source environment that is perfect for both learning and deploying predictive modeling solutions. With its constantly growing community and plethora of packages, R offers the functionality to deal with a truly vast array of problems. The book begins with a dedicated chapter on the language of models and the predictive modeling process. You will understand the learning curve and the process of tidying data. Each subsequent chapter tackles a particular type of model, such as neural networks, and focuses on the three important questions of how the model works, how to use R to train it, and how to measure and assess its performance using real-world datasets. How do you train models that can handle really large datasets? This book will also show you just that. Finally, you will tackle the really important topic of deep learning by implementing applications on word embedding and recurrent neural networks. By the end of this book, you will have explored and tested the most popular modeling techniques in use on real-world datasets and mastered a diverse range of techniques in predictive analytics using R. Style and approach This book takes a step-by-step approach in explaining the intermediate to advanced concepts in predictive analytics. Every concept is explained in depth, supplemented with practical examples applicable in a real-world setting.

The Analytical Puzzle Dec 24 2022 Do you enjoy completing puzzles? Perhaps one of the most challenging (yet rewarding) puzzles is delivering a successful data warehouse suitable for data mining and analytics. The Analytical Puzzle describes an unbiased, practical, and comprehensive approach to building a data warehouse which will lead to an increased level of business intelligence within your organization. New technologies continuously impact this approach and therefore this book explains how to leverage big data, cloud computing, data warehouse appliances, data mining, predictive analytics, data visualization and mobile devices. Here are the main objectives for each of the book's 19 chapters

- Chapter 1: Develop a foundational knowledge of data warehousing, business intelligence and analytics
- Chapter 2: Build the business case needed to sell your data warehousing project, and then produce a project plan that avoids common pitfalls
- Chapter 3: Elicit and organize business intelligence and data warehousing business requirements
- Chapter 4: Specify the technical architecture of the data warehousing system, including software and infrastructure components, technology stack, and non-functional requirements. Gain an understanding of cloud based data warehousing and data warehouse appliances
- Chapter 5: Learn about data attributes including metrics and key performance indicators (KPIs), the raw material of data warehousing and business intelligence
- Chapter 6: Learn about data modeling and how to apply design patterns for each part of the data warehouse
- Chapter 7: Speak the dimensional modeling language of measures, dimensions, facts, cubes, stars, and snowflakes
- Chapter 8: Organize a successful data governance program. Learn how to manage metadata for your data warehousing and business intelligence project
- Chapter 9: Identify useful data sources and implement a data quality program
- Chapter 10: Use database technology for your data warehousing project, and understand the impact of data warehouse appliances, big data, in memory databases, columnar databases and OnLine Analytical Processing (OLAP)
- Chapter 11: Apply data integration and understand the role data mapping, data cleansing, data transformation, and loading data play in a successful data warehouse
- Chapter 12: Use the business intelligence (BI) operations of slice, dice, drill down, roll up, and pivot to analyze and present data
- Chapter 13: Learn about descriptive and predictive statistics, and calculate mean, median, mode, variance and standard deviation
- Chapter 14: Harness analytical methods such as regression analysis, data mining, and statistics to make profitable decisions and anticipate the future
- Chapter 15: Appreciate the components and design patterns that compose a successful analytic application
- Chapter 16: Gain an understanding of the uses and benefits of scorecards and dashboards including support of mobile device users
- Chapter 17: Gain insight into applications of business intelligence that could profit your organization, including risk management, finance, marketing, government, healthcare, science and sports
- Chapter 18: Perform customer analytics to better understand and segment your customers
- Chapter 19: Test, roll out, and sustain the data warehouse

Abv 30 2020 ETL is short for extract, transform, load, three database functions that are combined into one tool to pull data out of one database and place it into another database. Extract is the process of reading data from a database. In addition to a relational database, data warehouse environment can include an extraction, transportation, transformation, and loading (ETL) solution, online analytical processing (OLAP) and data mining capabilities, client analysis tools, and other applications that manage the process of gathering data and delivering it to business users.

Jan 13 2022 Shows users and developers how to use MDX to effectively to provide relevant business information.

Nov 06 2021 Online analytical processing (OLAP) offers powerful tools for making sense of data, and Microsoft's OLAP Server makes OLAP far more accessible and cost-effective than it has ever been before. This book combines a complete introduction to OLAP technology and applications with a start-to-finish guide to implementing and maximizing Microsoft OLAP Server. John Shumate starts by introducing the key concepts underlying OLAP and multidimensional data analysis, and helping readers understand when it will (and won't) be useful to them. Understand the architecture and components of Microsoft's OLAP Server, and discover how Microsoft's solution compares with those of competitors. Next, walk step-by-step through every step planning, building, and deploying online analytical processing application using Microsoft's OLAP Server. For each phase of the project, Shumate provides goals and approaches, practical examples, a detailed to-do list, and recipe-style instructions for performing specific operations with OLAP Server.

Jun 25 2020 This book aims to achieve the following goals: (1) to provide a high-level survey of key analytics models and algorithms without going into mathematical details; (2) to analyze the usage patterns of these models; and (3) to discuss opportunities for accelerating analytic workloads using software, hardware, and system approaches. The book first describes 14 key analytic

models (exemplars) that span data mining, machine learning, and data management domains. For each analytics exemplar, we summarize its computational and runtime patterns and apply the information to evaluate parallelization and acceleration alternatives for that exemplar. Using case studies from important application domains such as deep learning, text analytics, and business intelligence (BI), we demonstrate how various software and hardware acceleration strategies are implemented in practice. This book is intended for both experienced professionals and students who are interested in understanding core algorithms behind analytics workloads. It is designed to serve as a guide for addressing various open problems in accelerating analytics workloads, e.g., new architectural features for supporting analytics workloads, impact on programming models and runtime systems, and designing analytics systems.

Olap 26 Success Secrets - 26 Most Asked Questions on Olap - What You Need to Know May 05 2021
There has never been a OLAP Guide like this. OLAP 26 Success Secrets is not about the ins and outs of OLAP. Instead, it answers the top 26 questions that we are asked and those we come across in our forums, consultancy and education programs. It tells you exactly how to deal with those questions, with tips that have never before been offered in print. Get the information you need--fast! This comprehensive guide offers a thorough view of key knowledge and detailed insight. This Guide introduces everything you want to know to be successful with OLAP. A quick look inside of the subject covered: Uses of Metadata Repository, What's In Store For You In a Business Intelligence Course, Dimensional, Design Schemas, Data Modeling Techniques, Data Webhouse and Data Warehouse Queries, Internet Companies, Much Ado about Business Intelligence Centers, Online Analytical Processing, Growing Demand For Web Analytics Companies, Bank, Visualizing Data Patterns, What Web Analytics Conference Offers?, Online Analytical Processing - Types, Key Component, OLTP, OLAP and Other Terminologies, All Things Techie: Business Intelligence Architecture, Repositories vs. Registries, SQL Server Analysis Services: Creating Intelligent Companies, The Evolution of the SQL Server 7, Metadata: A Different Metadata Format for Different Applications, Enterprise Data, DW Applications - Retail Industry, The Significance of Business Intelligence, Rules of Data Warehouse, Typical Architecture of Data Warehouse, and much more...

Using On-Line Analytical Processing (OLAP) and Data Mining to Estimate Emergency Room Activity in DoD Medical Treatment Facilities in the Tricare Central Region April 04 2021
On-line Analytical Processing (OLAP) and data mining can greatly enhance the ability of the Military Medical Treatment Facility (MTF) emergency room (ER) manager to improve ER staffing and utilization. MTF ER managers use statistical data analysis to help manage the efficient operation and use of ERs. As the size and complexity of databases increase, traditional statistical analysis becomes limited in the amount and type of information it can extract. OLAP tools enable the analysis of multi-dimensional data, which can give the user access to previously undiscovered information. Data mining has the capability to break large sets of data down into groups by classifications, associations, and clusterings to transform previously meaningless data into useful information. This research presents a brief overview of the DoD medical system, OLAP, and data mining. OLAP and data mining tools then analyze a data set containing two years of MTF ER data from the TRICARE Central Region. The results of these analyses provide insight on the predictive capabilities, advantages, and disadvantages of applying OLAP and data mining to MTF ER data.

SQL Server's Developer's Guide to OLAP with Analysis Services Nov 23 2022
The Skills You Need to Develop OLAP Solutions with SQL Server 2000 This one-of-a-kind book teaches you everything you need to know to use Microsoft's Analysis Services software to build, implement, and manage effective OLAP solutions. Expert advice and in-depth explanations combine to help you and your company take full advantage of the affordable power of SQL Server's built-in OLAP functionality. Coverage Includes: Analyzing large volumes of data effectively with Analysis Services Architecting and designing data analysis applications Querying OLAP data using MDX Programming applications using ADO/MD Managing Analysis Services servers with DSO Building data mining solutions with Analysis Services Using English Query for natural language querying of OLAP data Choosing appropriate client tools for

exploring OLAP data Using the PivotTable Service for client-side data analysis Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

Progressive Methods in Data Warehousing and Business Intelligence: Concepts and Competitive Analytics Sep 21 2022 Provides developments and research, as well as current innovative activities in data warehousing and mining, focusing on the intersection of data warehousing and business intelligence.

- [Joe Celkos Analytics And OLAP In SQL](#)
- [Data Warehouses And OLAP](#)
- [The Multidimensional Data Modeling Toolkit](#)
- [New Trends In Data Warehousing And Data Analysis](#)
- [The Analytical Puzzle](#)
- [SQL Servers Developers Guide To OLAP With Analysis Services](#)
- [Data Warehousing And Analytics](#)
- [Progressive Methods In Data Warehousing And Business Intelligence Concepts And Competitive Analytics](#)
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