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and knows how to teach it"*

Graeme Simson, University of Melbourne

Data Modeling Made Simple

A Practical
Guide for
Business &
Information
Technology
Professionals



Steve Hoberman

Author of the Data Modeler's Workbench

Data Modeling Made Simple A Practical Guide For Business Information Technology Professionals

Steve Hoberman



Data Modeling Made Simple A Practical Guide For Business Information Technology Professionals:

Data Modeling for MongoDB Steve Hoberman, 2014-06-01 Congratulations You completed the MongoDB application within the given tight timeframe and there is a party to celebrate your application s release into production Although people are congratulating you at the celebration you are feeling some uneasiness inside To complete the project on time required making a lot of assumptions about the data such as what terms meant and how calculations are derived In addition the poor documentation about the application will be of limited use to the support team and not investigating all of the inherent rules in the data may eventually lead to poorly performing structures in the not so distant future Now what if you had a time machine and could go back and read this book You would learn that even NoSQL databases like MongoDB require some level of data modeling Data modeling is the process of learning about the data and regardless of technology this process must be performed for a successful application You would learn the value of conceptual logical and physical data modeling and how each stage increases our knowledge of the data and reduces assumptions and poor design decisions Read this book to learn how to do data modeling for MongoDB applications and accomplish these five objectives Understand how data modeling contributes to the process of learning about the data and is therefore a required technique even when the resulting database is not relational That is NoSQL does not mean NoDataModeling Know how NoSQL databases differ from traditional relational databases and where MongoDB fits Explore each MongoDB object and comprehend how each compares to their data modeling and traditional relational database counterparts and learn the basics of adding querying updating and deleting data in MongoDB Practice a streamlined template driven approach to performing conceptual logical and physical data modeling Recognize that data modeling does not always have to lead to traditional data models Distinguish top down from bottom up development approaches and complete a top down case study which ties all of the modeling techniques together This book is written for anyone who is working with or will be working with MongoDB including business analysts data modelers database administrators developers project managers and data scientists There are three sections In Section I Getting Started we will reveal the power of data modeling and the tight connections to data models that exist when designing any type of database Chapter 1 compare NoSQL with traditional relational databases and where MongoDB fits Chapter 2 explore each MongoDB object and comprehend how each compares to their data modeling and traditional relational database counterparts Chapter 3 and explain the basics of adding querying updating and deleting data in MongoDB Chapter 4 In Section II Levels of Granularity we cover Conceptual Data Modeling Chapter 5 Logical Data Modeling Chapter 6 and Physical Data Modeling Chapter 7 Notice the ing at the end of each of these chapters We focus on the process of building each of these models which is where we gain essential business knowledge In Section III Case Study we will explain both top down and bottom up development approaches and go through a top down case study where we start with business requirements and end with the MongoDB database This case study will tie together all of the techniques in the previous seven chapters Nike Senior Data

Architect Ryan Smith wrote the foreword Key points are included at the end of each chapter as a way to reinforce concepts In addition this book is loaded with hands on exercises along with their answers provided in Appendix A Appendix B contains all of the book s references and Appendix C contains a glossary of the terms used throughout the text

Design and Development of Web Information Systems Klaus-Dieter Schewe, Bernhard Thalheim, 2019-04-01 This book describes the research of the authors over more than a decade on an end to end methodology for the design and development of Web Information Systems WIS It covers syntactics semantics and pragmatics of WIS introduces sophisticated concepts for conceptual modelling provides integrated foundations for all these concepts and integrates them into the co design method for systematic WIS development WIS i e data intensive information systems that are realized in a way that arbitrary users can access them via web browsers constitute a prominent class of information systems for which acceptance by its a priori unknown users in varying contexts with respect to the presented content the ease of functionality provided and the attraction of the layout adds novel challenges for modelling design and development This book is structured into four parts Part I Web Information Systems General Aspects gives a general introduction to WIS describing the challenges for their development and provides a characterization by six decisive aspects intention usage content functionality context and presentation Part II High Level WIS Design Strategic Analysis and Usage Modelling with Storyboarding introduces methods for high level design of WIS covering strategic aspects and the storyboarding method which is discussed from syntactic semantic and pragmatic perspectives Part III Conceptual WIS Design Rigorous Modelling of Web Information Systems and their Layout with Web Interaction Types and Screenography continues with conceptual design of WIS including layout and playout This introduces the decisive web interaction types the screenography method and adaptation aspects The final Part IV Rationale of the Co Design Methodology and Systematic Development of Web Information Systems describes the co design method for WIS development and its application for the systematic engineering of systems The book addresses the research community and at the same time can be used for education of graduate students and as methodological support for professional WIS developers For the WIS research community it provides methods for WIS modelling on all levels of abstraction including theoretical foundations and inference mechanisms as well as a sophisticated end to end methodology for systematic WIS engineering from requirements elicitation over conceptual modelling to aspects of implementation layout and playout For students and professional developers the book can be used as a whole for educational courses on WIS design and development as well as for more specific courses on conceptual modelling of WIS WIS foundations and reasoning co design and WIS engineering or WIS layout and playout development

Executing Data Quality Projects Danette McGilvray, 2008-09-01 Information is currency Recent studies show that data quality problems are costing businesses billions of dollars each year with poor data linked to waste and inefficiency damaged credibility among customers and suppliers and an organizational inability to make sound decisions In this important and timely new book Danette McGilvray presents her

Ten Steps approach to information quality a proven method for both understanding and creating information quality in the enterprise Her trademarked approach in which she has trained Fortune 500 clients and hundreds of workshop attendees applies to all types of data and to all types of organizations Includes numerous templates detailed examples and practical advice for executing every step of the Ten Steps approach Allows for quick reference with an easy to use format highlighting key concepts and definitions important checkpoints communication activities and best practices A companion Web site includes links to numerous data quality resources including many of the planning and information gathering templates featured in the text quick summaries of key ideas from the Ten Step methodology and other tools and information available online

Handbook of Research on Big Data Storage and Visualization Techniques Segall, Richard S.,Cook, Jeffrey S.,2018-01-05 The digital age has presented an exponential growth in the amount of data available to individuals looking to draw conclusions based on given or collected information across industries Challenges associated with the analysis security sharing storage and visualization of large and complex data sets continue to plague data scientists and analysts alike as traditional data processing applications struggle to adequately manage big data The Handbook of Research on Big Data Storage and Visualization Techniques is a critical scholarly resource that explores big data analytics and technologies and their role in developing a broad understanding of issues pertaining to the use of big data in multidisciplinary fields Featuring coverage on a broad range of topics such as architecture patterns programing systems and computational energy this publication is geared towards professionals researchers and students seeking current research and application topics on the subject

Data Modeling Made Simple Steve Hoberman,2009 Read today s business headlines and you will see that many issues stem from people not having the right data at the right time Data issues don t always make the front page yet they exist within every organisation We need to improve how we manage data and the most valuable tool for explaining vaildating and managing data is a data model This book provides the business or IT professional with a practical working knowledge of data modelling concepts and best practices This book is written in a conversational style that encourages you to read it from start to finish and master these ten objectives Know when a data model is needed and which type of data model is most effective for each situation Read a data model of any size and complexity with the same confidence as reading a book Build a fully normalised relational data model as well as an easily navigatable dimensional model Apply techniques to turn a logical data model into an efficient physical design Leverage several templates to make requirements gathering more efficient and accurate Explain all ten categories of the Data Model Scorecard Learn strategies to improve your working relationships with others Appreciate the impact unstructured data has and will have on our data modelling deliverables Learn basic UML concepts Put data modelling in context with XML metadata and agile development

Modeling Business Processes Wil Van Der Aalst, M.P.,Christian Stahl,2011-05-27 An introduction to the modeling of business information systems with processes formally modeled using Petri nets This comprehensive introduction to modeling business information systems focuses on

business processes It describes and demonstrates the formal modeling of processes in terms of Petri nets using a well established theory for capturing and analyzing models with concurrency The precise semantics of this formal method offers a distinct advantage for modeling processes over the industrial modeling languages found in other books on the subject Moreover the simplicity and expressiveness of the Petri nets concept make it an ideal language for explaining foundational concepts and constructing exercises After an overview of business information systems the book introduces the modeling of processes in terms of classical Petri nets This is then extended with data time and hierarchy to model all aspects of a process Finally the book explores analysis of Petri net models to detect design flaws and errors in the design process The text accessible to a broad audience of professionals and students keeps technicalities to a minimum and offers numerous examples to illustrate the concepts covered Exercises at different levels of difficulty make the book ideal for independent study or classroom use

Conceptual Data Modeling and Database Design: A Fully Algorithmic Approach, Volume 1

Christian Mancas,2016-01-05 This new book aims to provide both beginners and experts with a completely algorithmic approach to data analysis and conceptual modeling database design implementation and tuning starting from vague and incomplete customer requests and ending with IBM DB 2 Oracle MySQL MS SQL Server or Access based software applications A rich panoply of s

Context-Enhanced Information Fusion Lauro Snidaro,Jesús García,James Llinas,Erik

Blasch,2016-05-25 This text reviews the fundamental theory and latest methods for including contextual information in fusion process design and implementation Chapters are contributed by the foremost international experts spanning numerous developments and applications The book highlights high and low level information fusion problems performance evaluation under highly demanding conditions and design principles A particular focus is placed on approaches that integrate research from different communities emphasizing the benefit of combining different techniques to overcome the limitations of a single perspective Features introduces the terminology and core elements in information fusion and context presents key themes for context enhanced information fusion discusses design issues in developing context aware fusion systems provides mathematical grounds for modeling the contextual influences in representative fusion problems describes the fusion of hard and soft data reviews a diverse range of applications

Database Modeling and Design Toby J. Teorey,Sam S.

Lightstone,Tom Nadeau,H.V. Jagadish,2011-02-10 Database Modeling and Design Fifth Edition focuses on techniques for database design in relational database systems This extensively revised fifth edition features clear explanations lots of terrific examples and an illustrative case and practical advice with design rules that are applicable to any SQL based system The common examples are based on real life experiences and have been thoroughly class tested This book is immediately useful to anyone tasked with the creation of data models for the integration of large scale enterprise data It is ideal for a stand alone data management course focused on logical database design or a supplement to an introductory text for introductory database management In depth detail and plenty of real world practical examples throughout Loaded with design rules and

illustrative case studies that are applicable to any SQL UML or XML based system Immediately useful to anyone tasked with the creation of data models for the integration of large scale enterprise data DAMA-DMBOK: Guía Del Conocimiento Para La Gestión De Datos (Spanish Edition) DAMA International, La Guía del Conocimiento para la Gestión de Datos DAMA DMBOK2 presenta una visión exhaustiva de los desafíos complejidades y valor de la gestión eficaz de los datos Las organizaciones de hoy en día reconocen que la gestión de los datos es fundamental para su éxito Reconocen que los datos tienen valor y quieren aprovechar ese valor A medida que nuestra capacidad y deseo de crear y explotar datos ha aumentado también lo ha hecho la necesidad de prácticas de gestión de datos confiables La segunda edición de la Guía del Conocimiento para la Gestión de Datos de DAMA International actualiza y aumenta el exitoso DMBOK1 DMBOK2 un libro de referencia accesible y autorizado escrito por los principales pensadores en el campo y ampliamente revisado por los miembros de DAMA reúne materiales que describen exhaustivamente los desafíos de la gestión de datos y cómo cumplirlos mediante Definir un conjunto de principios rectores para la gestión de datos y describir cómo se pueden aplicar estos principios dentro de las áreas funcionales de gestión de datos Proporcionar un marco de referencia funcional para la implementación de prácticas de gestión de datos empresariales incluyendo prácticas métodos y técnicas ampliamente adoptadas funciones roles entregables y métricas Establecer un vocabulario común para los conceptos de gestión de datos y servir de base para las mejores prácticas para los profesionales de la gestión de datos DAMA DMBOK2 proporciona a los profesionales de la gestión de datos y de TI a ejecutivos trabajadores del conocimiento educadores e investigadores un marco para gestionar sus datos y madurar su infraestructura de información basado en estos principios Los datos son un activo con propiedades únicas El valor de los datos puede y debe expresarse en términos económicos Gestionar los datos significa gestionar la calidad de los datos Se necesitan metadatos para gestionar los datos Se necesita planificación para gestionar los datos La gestión de datos es multifuncional y requiere una amplia gama de habilidades y experiencia La gestión de datos requiere una perspectiva empresarial La gestión de datos debe tener en cuenta una serie de perspectivas La gestión de datos es la gestión del ciclo de vida de los datos Los diferentes tipos de datos tienen diferentes requerimientos de ciclo de vida La gestión de datos incluye la gestión de los riesgos asociados a los datos Los requerimientos de gestión de datos deben impulsar las decisiones sobre tecnología de la información Una gestión eficaz de los datos requiere un compromiso de liderazgo Los capítulos incluyen Gestión de Datos Manejo técnico de los Datos Gobierno de Datos Arquitectura de Datos Modelado y Diseño de Datos Almacenamiento de Datos y Operaciones Seguridad de Datos Integración de Datos e Interoperabilidad Gestión de Documentos y Contenidos Datos Maestros y de Referencia Data Warehousing e Inteligencia de Negocios Gestión de Metadatos Calidad de Datos Big Data y Ciencia de Datos Evaluación de la Madurez de la Gestión de Datos Organización de la Gestión de Datos y Expectativas de Roles Gestión de Datos y Gestión del Cambio Organizacional La estandarización de las disciplinas de gestión de datos ayudar a los profesionales de la gestión de datos a desempeñarse de forma más eficaz y consistente También permitir a los líderes de la organización reconocer el valor y

las contribuciones de las actividades de gestión de datos

Unveiling the Power of Verbal Artistry: An Psychological Sojourn through **Data Modeling Made Simple A Practical Guide For Business Information Technology Professionals**

In a global inundated with screens and the cacophony of immediate conversation, the profound power and emotional resonance of verbal beauty usually disappear into obscurity, eclipsed by the continuous barrage of sound and distractions. Yet, situated within the musical pages of **Data Modeling Made Simple A Practical Guide For Business Information Technology Professionals**, a fascinating perform of fictional beauty that pulses with organic emotions, lies an remarkable trip waiting to be embarked upon. Written with a virtuoso wordsmith, this magical opus books viewers on an emotional odyssey, delicately revealing the latent potential and profound impact embedded within the complex internet of language. Within the heart-wrenching expanse of the evocative analysis, we shall embark upon an introspective exploration of the book is central styles, dissect their captivating publishing model, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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