DEVELOPING
HIGH QUALITY
DATA MODELS

MATTHEW WEST

Developing High Quality Data Models

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Developing High Quality Data Models:

Developing High Quality Data Models Matthew West,2011-02-07 Developing High Quality Data Models provides an introduction to the key principles of data modeling It explains the purpose of data models in both developing an Enterprise Architecture and in supporting Information Quality common problems in data model development and how to develop high quality data models in particular conceptual integration and enterprise data models The book is organized into four parts Part 1 provides an overview of data models and data modeling including the basics of data model notation types and uses of data models and the place of data models in enterprise architecture Part 2 introduces some general principles for data models including principles for developing ontologically based data models and applications of the principles for attributes relationship types and entity types Part 3 presents an ontological framework for developing consistent data models Part 4 provides the full data model that has been in development throughout the book The model was created using Jotne EPM Technologys EDMVisualExpress data modeling tool This book was designed for all types of modelers from those who understand data modeling basics but are just starting to learn about data modeling in practice through to experienced data modelers seeking to expand their knowledge and skills and solve some of the more challenging problems of data modeling Uses a number of common data model patterns to explain how to develop data models over a wide scope in a way that is consistent and of high quality Offers generic data model templates that are reusable in many applications and are fundamental for developing more specific templates Develops ideas for creating consistent approaches to high quality data models **Conceptual Modeling - ER '98** Tok Wang Ling,Sudha Ram,1998-10-21 This volume constitutes the refereed proceedings of the 17th International Conference on Conceptual Modeling ER 98 held in Singapore in November 1998 The 32 revised full papers presented were carefully reviewed and selected from a total of 95 submissions The book is divided into chapters on conceptual modeling and design user interface modeling information retrieval on the Web semantics and constraints conceptual modeling tools quality and reliability metrics industrial experience in conceptual modeling object oriented database management systems data warehousing industrial case studies object oriented approaches The Data Model Resource Book Len Silverston,Paul Agnew,2011-03-21 This third volume of the best selling Data Model Resource Book series revolutionizes the data modeling discipline by answering the question How can you save significant time while improving the quality of any type of data modeling effort In contrast to the first two volumes this new volume focuses on the fundamental underlying patterns that affect over 50 percent of most data modeling efforts These patterns can be used to considerably reduce modeling time and cost to jump start data modeling efforts as standards and guidelines to increase data model consistency and quality and as an objective source against which an enterprise can evaluate data models *On Data Models, Their Transformations and Consistency Preserving Programming Interfaces* Martin Pein,2002 **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 **Executing Data Quality Projects** Danette McGilvray,2021-05-27 Executing Data Quality Projects Second Edition presents a structured yet flexible approach for creating improving sustaining and managing the quality of data and information within any organization 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 Help is here This book describes a proven Ten Step approach that combines a conceptual framework for understanding information quality with techniques tools and instructions for practically putting the approach to work with the end result of high quality trusted data and information so critical to today s data dependent organizations The Ten Steps approach applies to all types of data and all types of organizations for profit in any industry non profit government education healthcare science research and medicine This book includes numerous templates detailed examples and practical advice for executing every step At the same time readers are advised on how to select relevant steps and apply them in different ways to best address the many situations they will face The layout allows for quick reference with an easy to use format highlighting key concepts and definitions important checkpoints communication activities best practices and warnings The experience of actual clients and users of the Ten Steps provide real examples of outputs for the steps plus highlighted sidebar case studies called Ten Steps in Action This book uses projects as the vehicle for data quality work and the word broadly to include 1 focused data quality improvement projects such as improving data used in supply chain management 2 data quality activities in other projects such as building new applications and migrating data from legacy systems integrating data because of mergers and acquisitions or untangling data due to organizational breakups and 3 ad hoc use of data quality steps techniques or activities in the course of daily work The Ten Steps approach can also be used to enrich an organization s standard SDLC whether sequential or Agile and it complements general improvement methodologies such as six sigma or lean No two data quality projects are the same but the flexible nature of the Ten Steps means the methodology can be applied to all The new Second Edition highlights topics such as artificial intelligence and machine learning Internet of Things security and privacy analytics legal and regulatory requirements data science big data

data lakes and cloud computing among others to show their dependence on data and information and why data quality is more relevant and critical now than ever before Includes concrete instructions numerous templates and practical advice for executing every step of The Ten Steps approach Contains real examples from around the world gleaned from the author s consulting practice and from those who implemented based on her training courses and the earlier edition of the book 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 templates featured in the text quick summaries of key ideas from the Ten Steps methodology and other tools and information that are available online   *Interoperability for digital engineering systems* AA. VV.,2015-01-08T00:00:00+01:00 571 4 8   **Enterprise and Organizational Modeling and Simulation** Joseph Barjis,Robert Pergl,Eduard Babkin,2015-10-12 This book constitutes the refereed proceedings of the 11th International Workshop on Enterprise and Organizational Modeling and Simulation EOMAS 2015 held at CAiSE 2015 in June 2015 in Stockholm Sweden EOMAS was founded with the purpose to become a forum among researchers and practitioners to share their research and practical findings by encouraging the dissemination of research results under a more generic umbrella called enterprise engineering which encompasses internal factors ranging from organizational complexity to intricacy of business processes and sophistication in workflows as well as external factors and uncertainties such as competition politics or the emergence of innovative technologies The 15 papers presented in this volume were carefully reviewed and selected from 28 submissions They were organized in topical sections named enterprise conceptual modeling and simulation enterprise modeling formal foundation and enterprise optimization   *On the Move to Meaningful Internet Systems: OTM 2010* Robert Meersman,Tharam Dillon,Pilar Herrero,2010-11-06 In 2007 the IS wo shop Information Security was added to try covering also the speci c issues of security in complex Internet based information systems   <u>InfoWorld</u> ,1995-03-27 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects   *Model Order Reduction for Design, Analysis and Control of Nonlinear Vibratory Systems* Cyril Touzé,Attilio Frangi,2024-10-15 The book presents reduction methods that are using tools from dynamical systems theory in order to provide accurate models for nonlinear dynamical solutions occurring in mechanical systems featuring either smooth or non smooth nonlinearities The cornerstone of the chapters is the use of methods defined in the framework of the invariant manifold theory for nonlinear systems which allows definitions of efficient methods generating the most parsimonious nonlinear models having minimal dimension and reproducing the dynamics of the full system under generic assumptions Emphasis is put on the development of direct computational methods for finite element structures Once the reduced order model obtained numerical and analytical methods are detailed in order to get a complete picture of the dynamical solutions of the system in terms of stability and bifurcation Applications from the MEMS and

aerospace industry are covered and analyzed Geometric nonlinearity friction nonlinearity and contacts in jointed structures detection and use of internal resonance electromechanical and piezoelectric coupling with passive control parametric driving are surveyed as key applications The connection to digital twins is reviewed in a general manner opening the door to the efficient use of invariant manifold theory for nonlinear analysis design and control of engineering structures   **Metadata and Semantic Research** Emmanouel Garoufallou,Andreas Vlachidis,2023-08-09 This book constitutes the refereed post proceedings of the 16th Research Conference on Metadata and Semantic Research MTSR 2022 held in London UK during November 7 11 2022 The 21 full papers and 4 short papers included in this book were carefully reviewed andselected from 79 submissions They were organized in topical sections as follows metadata linked data semantics and ontologies general session and track on Knowledge IT Artifacts KITA Track on digital humanities and digital curation and track on cultural collections and applications track on digital libraries information retrieval big linked social open data and metadata linked data semantics and ontologies general session track on agriculture food environment and metadata linked Data semantics and ontologies general track on open repositories research information systems data infrastructures and metadata linked data semantics and ontologies general metadata linked data semantics and ontologies general session and track on european and national projects   *High-Performance Web Databases* Sanjiv Purba,2000-09-21 As Web based systems and e commerce carry businesses into the 21st century databases are becoming workhorses that shoulder each and every online transaction For organizations to have effective 24 7 Web operations they need powerhouse databases that deliver at peak performance all the time High Performance Web Databases Design Development and   *Engineering Education 4.0* Sulamith Frerich,Tobias Meisen,Anja Richert,Marcus Petermann,Sabina Jeschke,Uwe Wilkesmann,A. Erman Tekkaya,2017-04-12 This book presents a collection of results from the interdisciplinary research project ELLI published by researchers at RWTH Aachen University the TU Dortmund and Ruhr Universit t Bochum between 2011 and 2016 All contributions showcase essential research results concepts and innovative teaching methods to improve engineering education Further they focus on a variety of areas including virtual and remote teaching and learning environments student mobility support throughout the student lifecycle and the cultivation of interdisciplinary skills   Emergent Behavior in Complex Systems Engineering Saurabh Mittal,Saikou Diallo,Andreas Tolk,2018-04-03 A comprehensive text that reviews the methods and technologies that explore emergent behavior in complex systems engineering in multidisciplinary fields In Emergent Behavior in Complex Systems Engineering the authors present the theoretical considerations and the tools required to enable the study of emergent behaviors in manmade systems Information Technology is key to today s modern world Scientific theories introduced in the last five decades can now be realized with the latest computational infrastructure Modeling and simulation along with Big Data technologies are at the forefront of such exploration and investigation The text offers a number of simulation based methods technologies and approaches that are designed to encourage the reader to incorporate simulation

technologies to further their understanding of emergent behavior in complex systems The authors present a resource for those designing developing managing operating and maintaining systems including system of systems The guide is designed to help better detect analyse understand and manage the emergent behaviour inherent in complex systems engineering in order to reap the benefits of innovations and avoid the dangers of unforeseen consequences This vital resource Presents coverage of a wide range of simulation technologies Explores the subject of emergence through the lens of Modeling and Simulation M S Offers contributions from authors at the forefront of various related disciplines such as philosophy science engineering sociology and economics Contains information on the next generation of complex systems engineering Written for researchers lecturers and students Emergent Behavior in Complex Systems Engineering provides an overview of the current discussions on complexity and emergence and shows how systems engineering methods in general and simulation methods in particular can help in gaining new insights in complex systems engineering <u>Knowledge is Power in Four Dimensions: Models to Forecast Future Paradigm</u> Bahman Zohuri,Farhang Mossavar Rahmani,Farahnaz Behgounia,2022-07-14 Knowledge is Power in Four Dimensions Models to Forecast Future Paradigms Forecasting Energy for Tomorrow s World with Mathematical Modeling and Python Programming Driven Artificial Intelligence delivers knowledge on key infrastructure topics in both AI technology and energy Sections lay the groundwork for tomorrow s computing functionality starting with how to build a Business Resilience System BRS data warehousing data management and fuzzy logic Subsequent chapters dive into the impact of energy on economic development and the environment and mathematical modeling including energy forecasting and engineering statistics Energy examples are included for application and learning opportunities A final section deliver the most advanced content on artificial intelligence with the integration of machine learning and deep learning as a tool to forecast and make energy predictions The reference covers many introductory programming tools such as Python Scikit TensorFlow and Kera Helps users gain fundamental knowledge in technology infrastructure including AI machine learning and fuzzy logic Compartmentalizes data knowledge into near term and long term forecasting models with examples involving both renewable and non renewable energy outcomes Advances climate resiliency and helps readers build a business resiliency system for assets *AI Model Design and Data Management for Disease Prediction* Muniasamy, Anandhavalli,2025-07-09 The design of artificial intelligence AI models for disease prediction advances fields that combine medical expertise data science and computational power to improve diagnostic accuracy and patient outcomes The design of predictive models is central to this process tailored to analyze complex healthcare data Effective data management in healthcare involves the collection integration and storage of high quality clinical and biomedical datasets Ensuring data privacy and addressing biases are challenges that must be navigated to develop reliable and ethical AI systems Thoughtful model design and effective data management strategies may ensure earlier detection personalized treatment and better resource allocation in modern healthcare systems AI Model Design and Data Management

for Disease Prediction explores the integration of intelligent technologies into medical prediction and diagnosis It examines the usage of AI for enhanced healthcare data management This book covers topics such as data science medical imaging and prediction models and is a useful resource for computer engineers medical professionals academicians researchers and data scientists   **Advances in Global Warming Observations and their Uncertainties** Qingxiang Li,Boyin Huang,Xiaolan L. Wang,2022-11-07   **Data Management at Scale** Piethein Strengholt,2020-07-29 As data management and integration continue to evolve rapidly storing all your data in one place such as a data warehouse is no longer scalable In the very near future data will need to be distributed and available for several technological solutions With this practical book you ll learnhow to migrate your enterprise from a complex and tightly coupled data landscape to a more flexible architecture ready for the modern world of data consumption Executives data architects analytics teams and compliance and governance staff will learn how to build a modern scalable data landscape using the Scaled Architecture which you can introduce incrementally without a large upfront investment Author Piethein Strengholt provides blueprints principles observations best practices and patterns to get you up to speed Examine data management trends including technological developments regulatory requirements and privacy concerns Go deep into the Scaled Architecture and learn how the pieces fit together Explore data governance and data security master data management self service data marketplaces and the importance of metadata   **ARTIFICIAL INTELLIGENT TOOLS** Yunus Topsakal,2024-11-19 This book serves as a comprehensive guide for readers who wish to understand how artificial intelligence works how it is used and which fields it serves with concrete examples covering a total of 156 fundamental AI tools across 12 main categories and 49 subcategories These tools starting with major categories such as natural language processing image processing data analytics and robotic systems offer groundbreaking solutions in the world of information technologies with their functionality and versatility The tools presented in this book aim to enhance the readers academic knowledge and practical application skills by offering innovative and effective solutions in various fields Each tool is introduced according to the fundamental principles of its respective area with technical explanations and usage scenarios on how it works The content of the book is designed to be beneficial to a wide audience ranging from researchers to students software developers to industry professionals Each chapter of the book is detailed to ensure an in depth understanding of artificial intelligence Examples demonstrating the application areas benefits and limitations of each tool allow the reader to assimilate the information with a practical approach We hope that this book will serve as a reference source for all readers who wish to explore innovative solutions in AI and gain deep knowledge in this field

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