What is Data Modeling

Data Modeling For Everyone

Graeme Simsion,Graham Witt

Data Modeling For Everyone:

  Data Modeling for Everyone Sharon Allen,2007-04-15 Immediately accessible to anyone who must design a relational data model regardless of prior experience Concise straightforward explanations to a usually complex jargon rich discipline Examples are based on extensive author experience modeling for real business systems   *DATA MODEL FOR EVERYONE,* ALLEN,2002-10-01 This work provides a solid foundation in the following tools and techniques the different types of data modelling enterprise transactional and dimensional the stages of analysis developing conceptual logical and physical models what to do if you need to work with existing systems reverse engineering and forensic analysis general principles for converting logical models to physical ones modelling scope focusing on what s important but allowing for future development of your model defining detail entity relationship E R key based and fully attributed models documenting your understanding of the business in the model and graphical data modelling focusing on the IDEF1X notation   *The Data Modeling Handbook* Michael C. Reingruber,William W. Gregory,1994-12-17 This practical field tested reference doesn t just explain the characteristics of finished high quality data models it shows readers exactly how to build one It presents rules and best practices in several notations including IDEFIX Martin Chen and Finkelstein The book offers dozens of real world examples and go beyond basic theory to provide users with practical guidance   **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   *Data Modeling Essentials* Graeme Simsion,Graham Witt,2004-12-03 Data Modeling Essentials Third Edition covers the basics of data modeling while focusing on developing a facility in techniques rather than a simple familiarization with the rules In order to enable students to apply the basics of data modeling to real models the book addresses the realities of developing systems in real world situations by assessing the merits of a variety of possible solutions as well as using language and diagramming methods that represent industry practice This

revised edition has been given significantly expanded coverage and reorganized for greater reader comprehension even as it retains its distinctive hallmarks of readability and usefulness Beginning with the basics the book provides a thorough grounding in theory before guiding the reader through the various stages of applied data modeling and database design Later chapters address advanced subjects including business rules data warehousing enterprise wide modeling and data management It includes an entirely new section discussing the development of logical and physical modeling along with new material describing a powerful technique for model verification It also provides an excellent resource for additional lectures and exercises This text is the ideal reference for data modelers data architects database designers DBAs and systems analysts as well as undergraduate and graduate level students looking for a real world perspective Thorough coverage of the fundamentals and relevant theory Recognition and support for the creative side of the process Expanded coverage of applied data modeling includes new chapters on logical and physical database design New material describing a powerful technique for model verification Unique coverage of the practical and human aspects of modeling such as working with business specialists managing change and resolving conflict *Data Modeling Made Simple* Steve Hoberman,2013 This book provides the business or IT professional with a practical working knowledge of data modelling concepts and best practices along with how to apply these principles with ER Studio DA You will build many ER Studio DA data models along the way applying best practices to master these ten objectives You will know why a data model is needed and which ER Studio DA models are the most appropriate for each situation You will be able to read a data model of any size and complexity with the same confidence as reading a book You will know how to apply all the key features of ER Studio DA You will be able to build relational and dimensional conceptual logical and physical data models in ER Studio DA You will be able to apply techniques such as indexing transforms and forward engineering to turn a logical data model into an efficient physical design You will improve data model quality and impact analysis results by leveraging ER Studio DAs lineage functionality and compare merge utility You will achieve enterprise architecture through ER Studio DAs repository and portal functionality You will be able to apply ER Studio DAs data dictionary features You will learn ways of sharing the data model through reporting and through exporting the model in a variety of formats You will leverage ER Studio DAs naming functionality to improve naming consistency This book contains four sections Section I introduces data modelling and the ER Studio DA landscape Learn why data modelling is so critical to software development and even more importantly why data modelling is so critical to understanding the business You will also learn about the ER Studio DA environment By the end of this section you will have created and saved your first data model in ER Studio DA and be ready to start modelling in Section II Section II explains all of the symbols and text on a data model including entities attributes relationships domains and keys By the time you finish this section you will be able to read a data model of any size or complexity and create a complete data model in ER Studio DA Section III explores the three different levels of models conceptual logical and physical A conceptual data model CDM

represents a business need within a defined scope The logical data model LDM represents a detailed business solution capturing the business requirements without complicating the model with implementation concerns such as software and hardware The physical data model PDM represents a detailed technical solution The PDM is the logical data model compromised often to improve performance or usability The PDM makes up for deficiencies in our technology By the end of this section you will be able to create conceptual logical and physical data models in ER Studio DA Section IV discusses additional features of ER Studio DA These features include data dictionary data lineage automating tasks repository and portal exporting and reporting naming standards and compare and merge functionality   *Beginning Relational Data Modeling* Sharon Lee Allen,Evan Terry,2006-11-03 Data storage design and awareness of how data needs to be utilized within an organization is of prime importance in ensuring that company data systems work efficiently If you need to know how to capture the information needs of a business system in a relational database model but don t know where to start then this is the book for you Beginning Relational Data Modeling Second Edition will lead you step by step through the process of developing an effective logical data model for your relational database No previous data modeling experience is even required The authors infuse the book with concise straightforward wisdom to explain a usually complex jargon filled discipline And examples are based on their extensive experience modeling for real business systems   **Data Modeling Made Simple with CA ERwin Data Modeler r8** Donna Burbank,Steve Hoberman,2011-08-01 Data Modeling Made Simple with CA ERwin Data Modeler r8 will provide the business or IT professional with a practical working knowledge of data modeling concepts and best practices and how to apply these principles with CA ERwin Data Modeler r8 You ll build many CA ERwin data models along the way mastering first the fundamentals and later in the book the more advanced features of CA ERwin Data Modeler This book combines real world experience and best practices with down to earth advice humor and even cartoons to help you master the following ten objectives 1 Understand the basics of data modeling and relational theory and how to apply these skills using CA ERwin Data Modeler 2 Read a data model of any size and complexity with the same confidence as reading a book 3 Understand the difference between conceptual logical and physical models and how to effectively build these models using CA ERwin s Data Modelers Design Layer Architecture 4 Apply techniques to turn a logical data model into an efficient physical design and vice versa through forward and reverse engineering for both top down and bottom up design 5 Learn how to create reusable domains naming standards UDPs and model templates in CA ERwin Data Modeler to reduce modeling time improve data quality and increase enterprise consistency 6 Share data model information with various audiences using model formatting and layout techniques reporting and metadata exchange 7 Use the new workspace customization features in CA ERwin Data Modeler r8 to create a workflow suited to your own individual needs 8 Leverage the new Bulk Editing features in CA ERwin Data Modeler r8 for mass metadata updates as well as import export with Microsoft Excel 9 Compare and merge model changes using CA ERwin Data Modelers Complete Compare

features 10 Optimize the organization and layout of your data models through the use of Subject Areas Diagrams Display Themes and more Section I provides an overview of data modeling what it is and why it is needed The basic features of CA ERwin Data Modeler are introduced with a simple easy to follow example Section II introduces the basic building blocks of a data model including entities relationships keys and more How to examples using CA ERwin Data Modeler are provided for each of these building blocks as well as real world scenarios for context Section III covers the creation of reusable standards and their importance in the organization From standard data modeling constructs such as domains to CA ERwin specific features such as UDPs this section covers step by step examples of how to create these standards in CA ERwin Data Modeling from creation to template building to sharing standards with end users through reporting and queries Section IV discusses conceptual logical and physical data models and provides a comprehensive case study using CA ERwin Data Modeler to show the interrelationships between these models using CA ERwin s Design Layer Architecture Real world examples are provided from requirements gathering to working with business sponsors to the hands on nitty gritty details of building conceptual logical and physical data models with CA ERwin Data Modeler r8 From the Foreword by Tom Bilcze President CA Technologies Modeling Global User Community Data Modeling Made Simple with CA ERwin Data Modeler r8 is an excellent resource for the ERwin community The data modeling community is a diverse collection of data professionals with many perspectives of data modeling and different levels of skill and experience Steve Hoberman and Donna Burbank guide newbie modelers through the basics of data modeling and CA ERwin r8 Through the liberal use of illustrations the inexperienced data modeler is graphically walked through the components of data models and how to create them in CA ERwin r8 As an experienced data modeler Steve and Donna give me a handbook for effectively using the new and enhanced features of this release to bring my art form to life The book delves into advanced modeling topics and techniques by continuing the liberal use of illustrations It speaks to the importance of a defined data modeling architecture with soundly modeled data to assist the enterprise in understanding of the value of data It guides me in applying the finishing touches to my data designs **Mastering Data Modeling** John Carlis,2000-11-10 Data modeling is one of the most critical phases in the database application development process but also the phase most likely to fail A master data modeler must come into any organization understand its data requirements and skillfully model the data for applications that most effectively serve organizational needs Mastering Data Modeling is a complete guide to becoming a successful data modeler Featuring a requirements driven approach this book clearly explains fundamental concepts introduces a user oriented data modeling notation and describes a rigorous step by step process for collecting modeling and documenting the kinds of data that users need Assuming no prior knowledge Mastering Data Modeling sets forth several fundamental problems of data modeling such as reconciling the software developer s demand for rigor with the users equally valid need to speak their own sometimes vague natural language In addition it describes the good habits that help you respond to these fundamental problems With

these good habits in mind the book describes the Logical Data Structure LDS notation and the process of controlled evolution by which you can create low cost user approved data models that resist premature obsolescence Also included is an encyclopedic analysis of all data shapes that you will encounter Most notably the book describes The Flow a loosely scripted process by which you and the users gradually but continuously improve an LDS until it faithfully represents the information needs Essential implementation and technology issues are also covered You will learn about such vital topics as The fundamental problems of data modeling The good habits that help a data modeler be effective and economical LDS notation which encourages these good habits How to read an LDS aloud in declarative English sentences How to write a well formed syntactically correct LDS How to get users to name the parts of an LDS with words from their own business vocabulary How to visualize data for an LDS A catalog of LDS shapes that recur throughout all data models The Flow the template for your conversations with users How to document an LDS for users data modelers and technologists How to map an LDS to a relational schema How LDS differs from other notations and why Story interludes appear throughout the book illustrating real world successes of the LDS notation and controlled evolution process Numerous exercises help you master critical skills In addition two detailed annotated sample conversations with users show you the process of controlled evolution in action

   Data Modeling Essentials Graeme C. Simsion,Graham C. Witt,2001 This essential guide focuses on data quality and why the data model is so important plus includes essential material on developing a real model and covers organization of the modeling task and managing compromises   **Data Modeler's Workbench** Steve Hoberman,2002-04-22 A goldmine of valuable tools for data modelers Data modelers render raw data names addresses and salestotals for instance into information such as customer profiles andseasonal buying patterns that can be used for making criticalbusiness decisions This book brings together thirty of the mosteffective tools for solving common modeling problems The authorprovides an example of each tool and describes what it is why itis needed and how it is generally used to model data for bothdatabases and data warehouses along with tips and warnings Blanksample copies of all worksheets and checklists described areprovided in an appendix Companion Web site features updates on the latest tools andtechniques plus links to related sites offering automatedtools   **Data Modeling Essentials** Graeme C. Simsion,2005   Data Modeling for Quality Graham Witt,2021-01-20 This book is for all data modelers data architects and database designers be they novices who want to learn what s involved in data modeling or experienced modelers who want to brush up their skills A novice will not only gain an overview of data modeling they will also learn how to follow the data modeling process including the activities required for each step The experienced practitioner will discover or rediscover techniques to ensure that data models accurately reflect business requirements This book describes rigorous yet easily implemented approaches to modeling of business information requirements for review by business stakeholders before development of the logical data model normalizing data based on simple questions rather than the formal definitions which many modelers find intimidating naming and defining concepts and

attributes modeling of time variant data documenting business rules governing both the real world and data data modeling in an Agile project managing data model change in any type of project transforming a business information model to a logical data model against which developers can code implementing the logical data model in a traditional relational DBMS an SQL 2003 compliant DBMS an object relational DBMS or in XML Part 1 describes business information models in depth including the importance of modeling business information requirements before embarking on a logical data model business concepts entity classes attributes of business concepts attribute classes as an alternative to DBMS data types relationships between business concepts time variant data generalization and specialization of business concepts naming and defining the components of the business information model business rules governing data including a distinction between real world rules and data rules Part 2 journeys from requirements to a working data resource covering sourcing data requirements developing the business information model communicating it to business stakeholders for review both as diagrams and verbally managing data model change transforming the business information model into a logical data model of stored data for implementation in a relational or object relational DBMS attribute value representation and data constraints important but often overlooked modeling data vault dimensional and XML data   SQL All-in-One Desk Reference For Dummies Allen G. Taylor,2007-06-15 SQL is the international standard language for creating and maintaining relational databases This book is a compendium of information about SQL and relational database design development and maintenance The nine mini books cover the full spectrum of issues that arise in building using and maintaining relational database systems Book I SQL Concepts Book II Relational Database Development Book III SQL Queries Book IV Data Security Book V SQL and Programming Book VI SQL and XML Book VII Database Tuning Overview Book VIII Appendixes   **Data Modeling Made Simple** Steve Hoberman,2005 Ever have a bad data day If you are a business user architect analyst designer or developer then you have probably had some bad data days It comes with the territory Overcoming these problems is much easier if you have an in depth understanding of the actual data That s where a data model comes in handy It s a diagram that uses text and symbols to represent groupings of data giving you a clear picture of your business and application environment The book provides the tools you need to read create and validate models of your business and applications Contains everything about modelling you need to know but were too afraid to ask such as What are the traditional and non traditional uses of a data model How do subject area logical and physical data models differ When do I build a BSAM ASAM or CSAM What is the easiest way to apply normalisation Where can I best leverage abstraction How do I decide whether to use denormalisation or dimensionality What are primary foreign alternate virtual and surrogate keys What is the best approach to building the models How can I use the Scorecard system to validate a data model Includes over 30 exercises to reinforce concepts and sharpen your skills   *Data Modeling Made Simple with Embarcadero ER/Studio Data Architect* Steve Hoberman,2015-10 Build a working knowledge of data modeling concepts and best practices along with how to apply these principles with ER

Studio This second edition includes numerous updates and new sections including an overview of ER Studio s support for agile development as well as a description of some of ER Studio s newer features for NoSQL such as MongoDB s containment structure You will build many ER Studio data models along the way applying best practices to master these ten objectives Know why a data model is needed and which ER Studio models are the most appropriate for each situation Understand each component on the data model and how to represent and create them in ER Studio Know how to leverage ER Studio s latest features including those assisting agile teams and forward and reverse engineering of NoSQL databases Know how to apply all the foundational features of ER Studio Be able to build relational and dimensional conceptual logical and physical data models in ER Studio Be able to apply techniques such as indexing transforms and forward engineering to turn a logical data model into an efficient physical design Improve data model quality and impact analysis results by leveraging ER Studio s lineage functionality and compare merge utility Be able to apply ER Studio s data dictionary features Learn ways of sharing the data model through reporting and through exporting the model in a variety of formats Leverage ER Studio s naming functionality to improve naming consistency including the new Automatic Naming Translation feature This book contains four sections Section I introduces data modeling and the ER Studio landscape Learn why data modeling is so critical to software development and even more importantly why data modeling is so critical to understanding the business You will learn about the newest features in ER Studio including features on big data and agile and the ER Studio environment By the end of this section you will have created and saved your first data model in ER Studio and be ready to start modeling in Section II Section II explains all of the symbols and text on a data model including entities attributes relationships domains and keys By the time you finish this section you will be able to read a data model of any size or complexity and create a complete data model in ER Studio Section III explores the three different levels of models conceptual logical and physical A conceptual data model CDM represents a business need within a defined scope The logical data model LDM represents a detailed business solution capturing the business requirements without complicating the model with implementation concerns such as software and hardware The physical data model PDM represents a detailed technical solution The PDM is the logical data model compromised often to improve performance or usability The PDM makes up for deficiencies in our technology By the end of this section you will be able to create conceptual logical and physical data models in ER Studio Section IV discusses additional features of ER Studio These features include data dictionary data lineage automating tasks repository and portal exporting and reporting naming standards and compare and merge functionality   The Data Model Resource Book, Volume 1 Len Silverston,2011-08-08 A quick and reliable way to build proven databases for core business functions Industry experts raved about The Data Model Resource Book when it was first published in March 1997 because it provided a simple cost effective way to design databases for core business functions Len Silverston has now revised and updated the hugely successful 1st Edition while adding a companion volume to take care of more specific requirements of different businesses

This updated volume provides a common set of data models for specific core functions shared by most businesses like human resources management accounting and project management These models are standardized and are easily replicated by developers looking for ways to make corporate database development more efficient and cost effective This guide is the perfect complement to The Data Model Resource CD ROM which is sold separately and provides the powerful design templates discussed in the book in a ready to use electronic format A free demonstration CD ROM is available with each copy of the print book to allow you to try before you buy the full CD ROM **Logical Data Modeling** Alan Chmura,J. Mark Heumann,2004-09-29 Logical Data Modeling offers business managers analysts and students a clear basic systematic guide to defining business information structures in relational database terms The approach based on Clive Finkelstein s business side Information Engineering is hands on practical and explicit in terminology and reasoning Filled with illustrations examples and exercises Logical Data Modeling makes its subject accessible to readers with only a limited knowledge of database systems The book covers all essential topics thoroughly but succinctly entities associations attributes keys and inheritance valid and invalid structures and normalization It also emphasizes communication with business and database specialists documentation and the use of Visible Systems Visible Advantage enterprise modeling tool The application of design patterns to logical data modeling provides practitioners with a practical tool for fast development At the end a chapter covers the issues that arise when the logical data model is translated into the design for a physical database **Everyone's Support Systems** Chantico Publishing Co,1993 This guide offers proven methods to build management and support systems that empower employees and support management decision making at all levels The book s checklists and real world examples will help readers design systems that monitor business needs analyze trends and save time in planning

Understanding WMI Scripting Alain Lissoir,2003-01-31 Understanding WMI Scripting explains to Windows and Exchange Administrators how they can use the Windows Management Instrumentation WMI scriptable technology available in these products to ease their day to day management tasks Under Windows NET and Exchange 2000 SP2 Microsoft is making solid enhancements in WMI This will dramatically extend the scripting and manageability capabilities of Windows and Exchange Illustrated with more than three hundred samples the book links practical problems encountered by administrators to applicable scriptable solutions Lissoir focuses not on MI programming aspects for developers but on how administrators can use what is available in Windows and Exchange for their admin work WMI is a very important topic under Windows NET and Exchange 2000 SP2 so this book provides real added value to Windows Exchange administrators Although Exchange relies on Windows no other book combines coverage of Windows and Exchange

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