
DATA MODEL PATTERNS

Conventions of Thought



DAVID C. HAY

foreword by Richard Barker



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Len Silverston, Paul Agnew



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Logical Data Modeling Alan Chmura, J. Mark Heumann, 2007-03-06 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

[Crime Prediction Using GIS and Statistical Modelling](#) Priyanka Biswas, Nilanjana Das Chatterjee, 2025-02-17 The study presented in this SpringerBrief uses GIS tools to analyze incidents of violence against women in West Bengal India identifying hotspots and offering tools and strategies to predict and prevent future violence The aim of this study is to understand the existing scenarios and the complex crime patterns committed against women in West Bengal using advanced GIS tools to map and understand the underlying socio economic and physical environmental contexts of specific crime events and critically discussed emerging criminogenic issues on the basis of theoretical understanding and immediate situations This study evaluates the effectiveness of existing legislative measures to extract the gaps that exist between policy formulation and execution and effectively applied statistical methods and GIS technologies to visualize the future potential crime areas so that possible measures might be taken The study considers four categories of violence perpetrated on women human trafficking acid attacks rape and sexual harassment Each chapter follows a self contained design to address the study objectives as each crime follows distinct crime pattern differentially affects the targets and increase risk of victimization and differential key factors are responsible for specific crime occurrences

Proceedings of Eighth International Congress on Information and Communication Technology Xin-She Yang, R. Simon Sherratt, Nilanjan Dey, Amit Joshi, 2023-09-14 This book gathers selected high quality research papers presented at the Eighth International Congress on Information and Communication Technology held at Brunel University London on 20-23 February 2023 It discusses emerging topics pertaining to information and communication technology ICT for managerial applications e governance e agriculture e education and computing technologies the Internet of Things IoT and e mining Written by respected experts and researchers working on ICT the book offers a valuable asset for young researchers involved in advanced studies The work is presented in four volumes Chapter Ontology Engineering to Model the European Cultural Heritage The Case of Cultural Gems is available open access under a Creative Commons Attribution 4.0 International License

via SpringerLink [Data Model Patterns](#) David C. Hay,2013-07-18 This is the digital version of the printed book Copyright 1996 Learning the basics of a modeling technique is not the same as learning how to use and apply it To develop a data model of an organization is to gain insights into its nature that do not come easily Indeed analysts are often expected to understand subtleties of an organization s structure that may have evaded people who have worked there for years Here s help for those analysts who have learned the basics of data modeling or entity relationship modeling but who need to obtain the insights required to prepare a good model of a real business Structures common to many types of business are analyzed in areas such as accounting material requirements planning process manufacturing contracts laboratories and documents In each chapter high level data models are drawn from the following business areas The Enterprise and Its World The Things of the Enterprise Procedures and Activities Contracts Accounting The Laboratory Material Requirements Planning Process Manufacturing Documents Lower Level Conventions *The Data Model Resource Book* Len Silverston,Paul Agnew,2009

Data Model Patterns David Hay,Richard Barker,2013 This is the digital version of the printed book Copyright 1996 Learning the basics of a modeling technique is not the same as learning how to use and apply it To develop a data model of an organization is to gain insights into its nature that do not come easily Indeed analysts are often expected to understand subtleties of an organization s structure that may have evaded people who have worked there for years Here s help for those analysts who have learned the basics of data modeling or entity relationship modeling but who need to obtain the insights required to prepare a good model of a real business Structures common to many types of business are analyzed in areas such as accounting material requirements planning process manufacturing contracts laboratories and documents In each chapter high level data models are drawn from the following business areas The Enterprise and Its World The Things of the Enterprise Procedures and Activities Contracts Accounting The Laboratory Material Requirements Planning Process Manufacturing Documents Lower Level Conventions **Patterns of Data Modeling** Michael Blaha,2010-06-01 Best selling author and database expert with more than 25 years of experience modeling application and enterprise data Dr Michael Blaha provides tried and tested data model patterns to help readers avoid common modeling mistakes and unnecessary frustration on their way to building effective data models Unlike the typical methodology book *Patterns of Data Modeling* provides advanced techniques for those who have mastered the basics Recognizing that database representation sets the path for software determines its flexibility affects its quality and influences whether it succeeds or fails the text focuses on databases rather than programming It is one of the first books to apply the popular patterns perspective to database systems and data models It offers practical advice on the core aspects of applications and provides authoritative coverage of mathematical templates antipatterns archetypes identity canonical models and relational database design [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 Data Model Patterns David C. Hay,2013 **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 Technologies 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 **Data Modeling for Information Professionals** Bob Schmidt,David Warren (Ph.D.),1999 PLEASE PROVIDE Data Model Patterns (Recorded Live at Data Modeling Zone US) Len Silverston,2020 Recorded live at Data Modeling Zone Follow along with data modeling expert and bestselling author Len Silverston and obtain numerous very useful patterns you can use during application design Practice applying the five patterns of Role Contact Status Classification and Hierarchy Having clear consistent enterprise wide and agreed upon business glossary terms and models can have a huge effect in improving productivity facilitating more effective communications decreasing costs of systems development and maintenance increasing data quality and enhancing systems integration Yet so many organizations struggle to develop a commonly accepted vocabulary of business terms and models This presentation provides tools and techniques to jump start development of a business glossaries as well as associated data models using universal constructs We will discuss case studies of organizations that successfully used these tools and developed a common business glossary as well as agreed upon models In this information fun and interactive seminar you will learn The greatest challenges regarding developing a

Universal business glossary and common models from decades of past experiences How to jump start development of a business glossary saving huge costs and time 15 important guidelines for developing definitions within the business glossary or for use in developing data model definitions Universal data constructs models for business functions and how this relates to glossaries and business data models [The Data Model Toolkit](#) Dave Knifton,2016-10-10 Adopting the latest technological and data related innovations has caused many organisations to realise they don t have a firm grasp on their basic operational data This is a problem that Logical Data Models are uniquely qualified to help them solve The realisation of the need to define a Logical Data Model may be driven by any number of reasons including trying to link Big Data Analytics to operational data plunging into Digital Marketing choosing the best SaaS solution carrying out a core Data Migration developing a Data Warehouse enhancing Data Governance processes or even just trying to get everyone to agree on their Product specifications This book will provide you with the skills required to start to answer these and many similar types of questions It is not written with a focus on IT development so you don t need a technical background to get the most from it But for any professional working in an organisation s data landscape this book will provide the skills they need to define high quality and beneficial data models quickly and easily It does this using a wealth of practical examples tips and techniques as well as providing checklists and templates It is structured into three parts The Foundations What are the solid foundations necessary for building effective data models The Tools What Tools are required to enable you to specify clear precise and accurate data model definitions The Deliverables What processes will you need to successfully define the models what will they deliver and how can we make them beneficial to the organisation In this data rich era it is even more critical for organisations to answer the question of what their data means and the value it can bring Those who can will gain a competitive advantage through their use of data to streamline their operations and energise their strategies Core to revealing this meaning is the data model that is now more than ever the lynchpin of success The Data Model Toolkit provides the essential knowledge and skills that will ensure this success Reem Zahran Global IT Platform Director TNS We work with many enterprise customers to help them transform their technology and it always starts with data The key is a clear definition of their data quality completeness and governance This book shows you step by step how to define and use Data Models as powerful tools to define an organisation s data and maximise its business benefit John Casserly CEO Xceed Group

[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 Master Class Training Manual](#) Steve Hoberman,2015-07 This is the sixth edition of the training manual for the Data Modeling Master Class that Steve Hoberman teaches onsite and through public classes This text can be purchased prior to attending the Master

Class the latest course schedule and detailed description can be found on Steve Hoberman's website stevehoberman.com The Master Class is a complete data modeling course containing three days of practical techniques for producing conceptual logical and physical relational and dimensional and NoSQL data models After learning the styles and steps in capturing and modeling requirements you will apply a best practices approach to building and validating data models through the Data Model Scorecard You will know not just how to build a data model but how to build a data model well Two case studies and many exercises reinforce the material and will enable you to apply these techniques in your current projects

Top 10 Objectives

- 1 Explain data modeling components and identify them on your projects by following a question driven approach
- 2 Demonstrate reading a data model of any size and complexity with the same confidence as reading a book
- 3 Validate any data model with key settings scope abstraction timeframe function and format as well as through the Data Model Scorecard
- 4 Apply requirements elicitation techniques including interviewing artifact analysis prototyping and job shadowing
- 5 Build relational and dimensional conceptual and logical data models and know the tradeoffs on the physical side for both RDBMS and NoSQL solutions
- 6 Practice finding structural soundness issues and standards violations
- 7 Recognize when to use abstraction and where patterns and industry data models can give us a great head start
- 8 Use a series of templates for capturing and validating requirements and for data profiling
- 9 Evaluate definitions for clarity completeness and correctness
- 10 Leverage the Data Vault and enterprise data model for a successful

[The Nimble Elephant](#) John Giles, 2012-08-01 Get it done well and get it done fast are twin apparently opposing demands Data architects are increasingly expected to deliver quality data models in challenging timeframes and agile developers are increasingly expected to ensure that their solutions can be easily integrated with the data assets of the overall organization If you need to deliver quality solutions despite exacting schedules [The Nimble Elephant](#) will help by describing proven techniques that leverage the libraries of published data model patterns to rapidly assemble extensible and robust designs The three sections in the book provide guidelines for applying the lessons to your own situation so that you can apply the techniques and patterns immediately to your current assignments The first section Foundations for Data Agility addresses some perceived aspects of friction between data and agile practitioners As a starting point for resolving the differences pattern levels of granularity are classified and their interdependencies exposed A context of various types of models is established e.g. conceptual logical physical and industry enterprise project and you will learn how to customize patterns within specific model types The second section Steps Towards Data Agility shares guidelines on generalizing and specializing with cautions on the dangers of going too far Creativity in using patterns beyond their intended purpose is encouraged The short term You Ain't Gonna Need It YAGNI philosophy of agile practitioners and the longer term strategic perspectives of architects are compared and evaluated Consideration is given to the potential of enterprise views contributing to project specific models Other topics include industry models iterative modeling creation of patterns when none exist and patterns for rules in data The section ends with

a perspective on the modeler's possible role in agile projects followed by a case study. The final section, *A Bridge to the Land of Object Orientation*, provides a pathway for re-skilling traditional data modelers who want to expand their options by actively engaging with the ranks of object-oriented developers. I'm delighted to see that John has put his extensive experience and broad knowledge of data modeling into print. John's ability to simplify the complex and to share his knowledge and enthusiasm and humor with colleagues comes through in this very useful and readable book. I recommend it to anyone working with data.

Monika Remenyi, Senior Data Architect, Telstra

John Giles has written a compelling and engaging book about the importance of data modeling patterns in the world of agile computing. His book is clearly and simply written and it is full of excellent examples drawn from his extensive experience as a practitioner. You will see the enthusiasm and passion that John clearly has for his work in data modeling. And you will see in his book that any interchange with John will always have its fair share of good humor and wisdom.

Professor Ron Weber, Dean, Faculty of IT, Monash University

Data Model Scorecard

Steve Hoberman, 2015-11-01

Data models are the main medium used to communicate data requirements from business to IT and within IT from analysts, modelers, and architects to database designers and developers. Therefore, it's essential to get the data model right. But how do you determine right? That's where the Data Model Scorecard comes in. The Data Model Scorecard is a data model quality scoring tool containing ten categories aimed at improving the quality of your organization's data models. Many of my consulting assignments are dedicated to applying the Data Model Scorecard to my client's data models. I will show you how to apply the Scorecard in this book.

This book, written for people who build, use, or review data models, contains the Data Model Scorecard template and an explanation along with many examples of each of the ten Scorecard categories. There are three sections. In Section I, *Data Modeling and the Need for Validation*, receive a short data modeling primer in Chapter 1, understand why it is important to get the data model right in Chapter 2, and learn about the Data Model Scorecard in Chapter 3. In Section II, *Data Model Scorecard Categories*, we will explain each of the ten categories of the Data Model Scorecard. There are ten chapters in this section, each chapter dedicated to a specific Scorecard category: Chapter 4, *Correctness*; Chapter 5, *Completeness*; Chapter 6, *Scheme*; Chapter 7, *Structure*; Chapter 8, *Abstraction*; Chapter 9, *Standards*; Chapter 10, *Readability*; Chapter 11, *Definitions*; Chapter 12, *Consistency*; Chapter 13, *Data*. In Section III, *Validating Data Models*, we will prepare for the model review in Chapter 14, cover tips to help during the model review in Chapter 15, and then review a data model based upon an actual project in Chapter 16.

Data Science Design Patterns

Todd Morley, 2020-08-03

Data Science Design Patterns brings together several dozen proven patterns for building successful decision support and decision automation systems in the enterprise. Like Martin Fowler's classic *Patterns of Enterprise Application Architecture*, it helps you rapidly hone in on proven solutions to common problems, leveraging the hard-won expertise of those who have come before you. Todd Morley helps you draw upon and integrate diverse domains, including statistics, machine learning, information retrieval, compression, optimization, and other areas of software development, and

business consulting His patterns address many common challenges including categorization prediction optimization testing and human factors They link directly to key goals for data science and analytics increasing revenue decreasing costs reducing risk choosing strategies and making key decisions Each pattern offers a high level design for an application module or layer that either directly solves an enterprise scale data science problem or offers a higher level approach to solving it Throughout Morley presents wide ranging examples links to real world case studies and extensive bibliographic references for deepening your understanding This guide s patterns will substantially shorten the learning curve faced by software developers architects and IT professionals who have limited mathematical background and are tasked with solving large scale data science business problems They will be equally valuable to experienced data scientists interested in applying best practices to become even more effective

Hands-On Big Data Modeling James Lee,Tao Wei,Suresh Kumar Mukhiya,2018-11-30 Solve all big data problems by learning how to create efficient data models Key Features Create effective models that get the most out of big data Apply your knowledge to datasets from Twitter and weather data to learn big data Tackle different data modeling challenges with expert techniques presented in this book Book Description Modeling and managing data is a central focus of all big data projects In fact a database is considered to be effective only if you have a logical and sophisticated data model This book will help you develop practical skills in modeling your own big data projects and improve the performance of analytical queries for your specific business requirements To start with you ll get a quick introduction to big data and understand the different data modeling and data management platforms for big data Then you ll work with structured and semi structured data with the help of real life examples Once you ve got to grips with the basics you ll use the SQL Developer Data Modeler to create your own data models containing different file types such as CSV XML and JSON You ll also learn to create graph data models and explore data modeling with streaming data using real world datasets By the end of this book you ll be able to design and develop efficient data models for varying data sizes easily and efficiently What you will learn Get insights into big data and discover various data models Explore conceptual logical and big data models Understand how to model data containing different file types Run through data modeling with examples of Twitter Bitcoin IMDB and weather data modeling Create data models such as Graph Data and Vector Space Model structured and unstructured data using Python and R Who this book is for This book is great for programmers geologists biologists and every professional who deals with spatial data If you want to learn how to handle GIS GPS and remote sensing data then this book is for you Basic knowledge of R and QGIS would be helpful

[Learning Data Modeling](#) Michael Blaha,2014 In this Learning Data Modeling training course expert author Michael Blaha will teach you how to build data models as well as prepare a data model for simple problems This course is designed for users that have some programming experience however no data modeling experience is needed You will start by learning about the data modeling development process then jump into basic and advanced data modeling From there Michael will teach you how to create a UML data model including

finding classes adding attributes and simplifying the model This video tutorial also covers how to translate a UML data model into an IE data model model quality the different kinds of data models and database design You will also learn how to create an SQL server database an MS Access database and develop frameworks Finally Michael will teach you about data modeling patterns and database reverse engineering Resource description page

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