

# **A PRACTICAL GUIDE TO LOGICAL DATA MODELING**

**SECOND EDITION**

**George Tillmann**

*Foreword by  
Peter Chen  
Creator of the Entity-Relationship Model*



Stockbridge Press

# Practical Guide To Logical Data Modeling

**George Tillmann**



## **Practical Guide To Logical Data Modeling:**

**A Practical Guide to Logical Data Modeling** George Tillmann, 2020-10-27 Build the Systems That the Textbooks Only Talk About Little has been written about exactly how to build a data model for a real world production environment A Practical Guide to Logical Data Modeling is an indispensable handbook whether you are a data modeling novice or a seasoned professional It features a best practices approach that shows you what actions to take or to avoid to build successful systems The book starts with an in depth tutorial on the Entity Relationship Model the most popular data modeling approach in use today It then presents a set of guidelines that can help eliminate errors that too often turn a project success into a project failure It continues with a step by step explanation of exactly how to build a platform independent logical data model including interviewing techniques user presentation recommendations and formal walkthrough review advice The book ends with a look at the Entity Relationship alternatives IDEF1X and the Unified Modeling Language UML This book contains real world advice for the systems practitioner working in the corporate trenches Whether you are a project manager systems analyst or database designer you will benefit from the author s recommendations

**A Practical Guide to Logical Data Modeling** George Tillmann, 1993 This book provides both the seasoned and novice designer with an understanding of logical data modeling the stepping stone to structuring viable software systems The basics of data modeling are presented in this clearly written guide focusing on entity relationships the most popular modeling approach in use today 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

**A Practical Guide to Database Design** Rex Hogan, 2018-03-08 Fully updated and expanded from the previous edition A Practical Guide to Database Design Second Edition is intended for those involved in the design or development of a database system or application It begins by illustrating how to develop a Third Normal Form data model where data is placed where it belongs The reader is taken step by step through the Normalization process first using a simple then a more complex set of data requirements Next usage analysis for each Logical Data Model is reviewed and a Physical Data Model is produced that will satisfy user performance requirements Finally each Physical Data Model is used as input to create

databases using both Microsoft Access and SQL Server The book next shows how to use an industry leading data modeling tool to define and manage logical and physical data models and how to create Data Definition Language statements to create or update a database running in SQL Server Oracle or other type of DBMS One chapter is devoted to illustrating how Microsoft Access can be used to create user interfaces to review and update underlying tables in that database as well as tables residing in SQL Server or Oracle For users involved with Cyber activity or support one chapter illustrates how to extract records of interest from a log file using PERL then shows how to load these extracted records into one or more SQL Server tracking tables adding status flags for analysts to use when reviewing activity of interest These status flags are used to flag mark collected records as Reviewed Pending currently being analyzed and Resolved The last chapter then shows how to build a web based GUI using PHP to query these tracking tables and allow an analyst to review new activity flag items that need to be investigated and finally flag items that have been investigated and resolved Note that the book has complete code scripts for both PERL and the PHP GUI

**Information Structure Design for Databases** Andrew J. Mortimer, 2014-05-12  
Computer Weekly Professional Series Information Structure Design for Databases A Practical Guide to Data modeling focuses on practical data modeling covering business and information systems The publication first offers information on data and information business analysis and entity relationship model basics Discussions cover degree of relationship symbols relationship rules membership markers types of information systems data driven systems cost and value of information importance of data modeling and quality of information The book then takes a look at entity relationship modeling connections one to one relationship and entity relationship modeling advanced topics including connection traps resolving many to many relationships four combinations of membership and entity merging The text examines logical data dictionary data flow diagrams entity life history and developing database applications Topics include data modeling during development waterfall approach iterative development sequence selection illegal data flow linkages conservation of data second normal form rule and denormalization The book is a valuable reference for researchers interested in data modeling

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**Data Modeling with Snowflake** Serge Gershkovich, 2025-09-02

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Who this book is for Whether building data products or managing a data platform at scale this book serves any developer who jumped into SQL without first establishing modeling best practices and understanding their effective applications to save time and effort For analysts or those starting in database design this book provides practical foundations of data modeling to guide you on your Snowflake data journey Those new to Snowflake will discover its core features and learn to incorporate them into universal modeling frameworks *Data Modeling Fundamentals* Paulraj Ponniah,2007-06-30 The purpose of this book is to provide a practical approach for IT professionals to acquire the necessary knowledge and expertise in data modeling to function effectively It begins with an overview of basic data modeling concepts introduces the methods and techniques provides a comprehensive case study to present the details of the data model components covers the implementation of the data model with emphasis on quality components and concludes with a presentation of a realistic approach to data modeling It clearly describes how a generic data model is created to represent truly the enterprise information requirements Process Groups: A Practice Guide PMI,2022-11-07 Master the Art of Project Management with Proven Processes Are you ready to elevate your project management skills and achieve consistent success Process Groups A Practice Guide is your essential companion to the PMBOK Guide offering practical guidance for a predictive approach This guide equips you with the knowledge to navigate the complexities of project management and deliver exceptional results This practice guide provides a process based framework helping you to Initiate Define new projects and phases with confidence Plan Establish project scope refine objectives and chart a clear course of action Execute Complete work efficiently meeting project requirements Monitor Control Track progress manage changes and ensure alignment with the plan Close Formally complete projects phases or contracts This guide is for project management professionals project managers and students seeking to master traditional project management practices Gain the insights and tools you need to excel in this dynamic field **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 validating 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

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model is translated into the design for a physical database      **Enterprise Architecture and Metadata Modeling** Carl Turco,2009-05 After the economic debacle of 2008 corporations must increase control over their I T infrastructures We expound a way of managing the business vision realization and facilitate swift response to change      practice and implementation.- v.2. a program guide James P. Vincent,1988      *OLAP Solutions* Erik Thomsen,1997-03-28 A complete practical hands on guide to mastering OLAP technology I was awestruck by the range depth and quality of this book Rick Crandall OLAP Council Spokesman and Comshare Board Chairman Written in a clear and engaging style by one of the leading experts in the field this book takes you on a comprehensive and richly illustrated journey from the most basic concepts to the most advanced areas of OLAP technology The book describes both logical OLAP features such as dimensions and hypercubes and physical features such as storage and access methods using real life case studies to illustrate concepts You can follow these case studies step by step using the OLAP software provided on the accompanying CD ROM Inside this comprehensive resource you ll find An overview of OLAP and its relationship to data warehousing Complete coverage of multidimensional features including dimensions hypercubes hierarchies data links and formulas Thorough treatment of how to visualize multidimensional data sets Practical steps for designing multidimensional information systems Case studies covering such topics as global planning for sales and marketing portfolio analysis air transportation and cost benefit analysis for infrastructure projects Guidelines for evaluating OLAP products with OLAP vendor and product descriptions On the CD ROM you ll find A copy of the OLAP software package used to create the book s case studies A functional version of each case study covered in the book A copy of the product used to create the book s visualizations A functional version of the visualizations created in the book A full listing of major OLAP vendors and tools Visit our Web site at <http://www.wiley.com/compbooks>      **Database Systems** Thomas M. Connolly,Carolyn E. Begg,2002 This text includes material on distributed databases object oriented databases data mining data warehouses multimedia databases and the Internet and provides a strong foundation in good design practice      **Software Engineering: A Practitioner's Approach** Roger S. Pressman,2010 For over 20 years this has been the best selling guide to software engineering for students and industry professionals alike This seventh edition features a new part four on web engineering which presents a complete engineering approach for the analysis design and testing of web applications      **DATA&KNOWLEDGE ENGINEERING** ,2002      **Conceptual Modeling--ER ...** ,1996

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