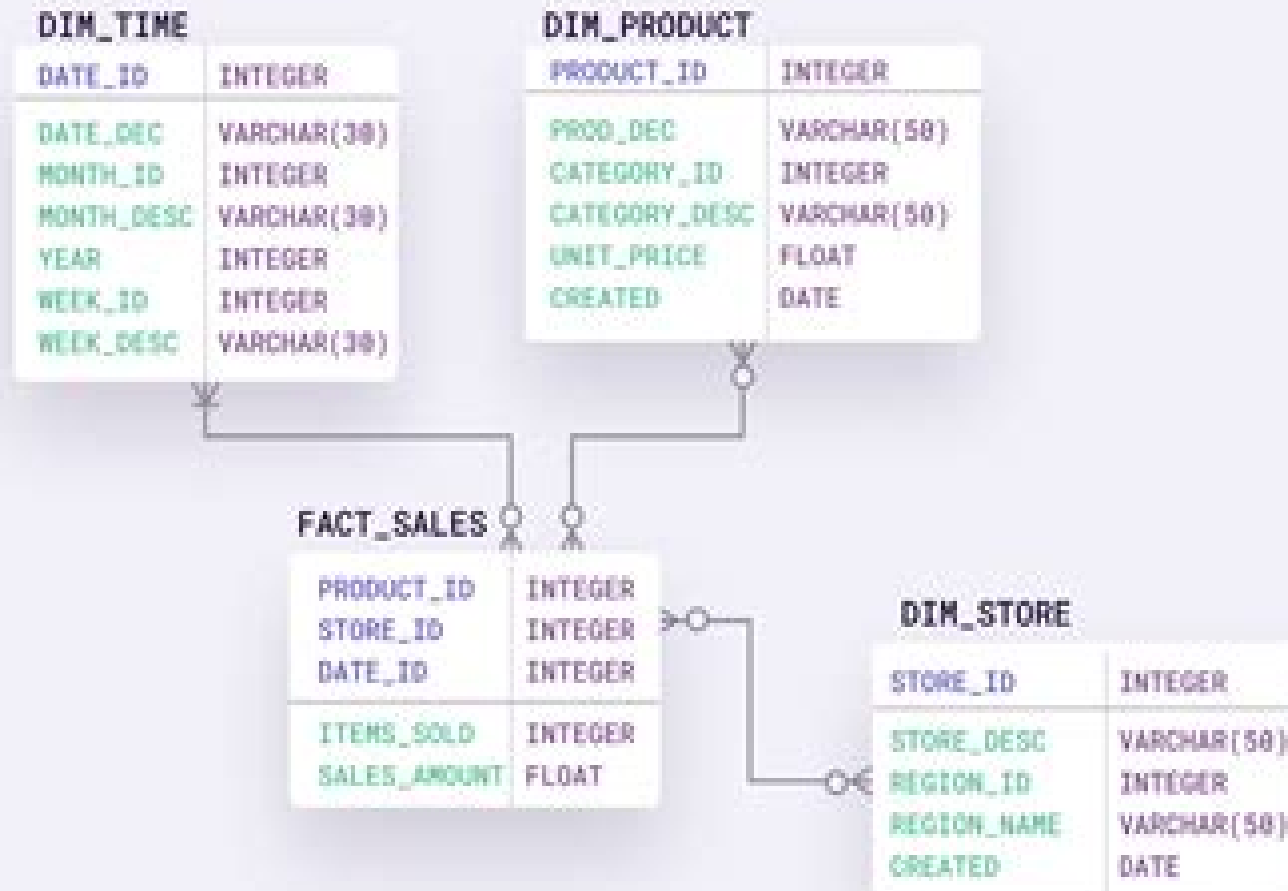


PHYSICAL DATA MODELING



Data Modeling And Database Design

Steve Hoberman



Data Modeling And Database Design:

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

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

Data Modeling Essentials Graeme C. Simsion, 1994 Data Modeling Essentials is a comprehensive guide to data modeling for commercial information systems Data modeling is presented as a design activity which offers opportunities for creativity and innovation

Database Design for Smarties Robert J. Muller, 1999-03-08 Craft the Right Design Using UML Whether building a relational object relational or object oriented database database developers are increasingly relying on an object oriented design approach as the best way to meet user needs and performance criteria This book teaches you how to use the Unified Modeling Language the official standard of the Object Management Group to develop and implement the best possible design for your database Inside the author leads you step by step through the design process from requirements analysis to schema generation You ll learn to express stakeholder needs in UML use cases and actor diagrams to translate UML entities into database components and to transform the resulting design into relational object relational and object oriented schemas for all major DBMS products Features Teaches you everything you need to know to design build and test databases using an OO model Shows you how to use UML the accepted standard for database design according to OO principles Explains how to transform your design into a conceptual schema for relational object relational and object oriented DBMSs Offers practical examples of design for Oracle SQL Server

Sybase Informix Object Design POET and other database management systems Focuses heavily on re using design patterns for maximum productivity and teaches you how to certify completed designs for re use

Data Modeling for Azure Data Services Peter ter Braake, 2021-07-30 Choose the right Azure data service and correct model design for successful implementation of your data model with the help of this hands on guide Key Features Design a cost effective performant and scalable database in Azure Choose and implement the most suitable design for a database Discover how your database can scale with growing data volumes concurrent users and query complexity Book Description Data is at the heart of all applications and forms the foundation of modern data driven businesses With the multitude of data related use cases and the availability of different data services choosing the right service and implementing the right design becomes paramount to successful implementation Data Modeling for Azure Data Services starts with an introduction to databases entity analysis and normalizing data The book then shows you how to design a NoSQL database for optimal performance and scalability and covers how to provision and implement Azure SQL DB Azure Cosmos DB and Azure Synapse SQL Pool As you progress through the chapters you ll learn about data analytics Azure Data Lake and Azure SQL Data Warehouse and explore dimensional modeling data vault modeling along with designing and implementing a Data Lake using Azure Storage You ll also learn how to implement ETL with Azure Data Factory By the end of this book you ll have a solid understanding of which Azure data services are the best fit for your model and how to implement the best design for your solution What you will learn Model relational database using normalization dimensional or Data Vault modeling Provision and implement Azure SQL DB and Azure Synapse SQL Pools Discover how to model a Data Lake and implement it using Azure Storage Model a NoSQL database and provision and implement an Azure Cosmos DB Use Azure Data Factory to implement ETL ELT processes Create a star schema model using dimensional modeling Who this book is for This book is for business intelligence developers and consultants who work on modern cloud data warehousing and design and implement databases Beginner level knowledge of cloud data management is expected

Usage-Driven Database Design George Tillmann, 2017-04-07 Design great databases from logical data modeling through physical schema definition You will learn a framework that finally cracks the problem of merging data and process models into a meaningful and unified design that accounts for how data is actually used in production systems Key to the framework is a method for taking the logical data model that is a static look at the definition of the data and merging that static look with the process models describing how the data will be used in actual practice once a given system is implemented The approach solves the disconnect between the static definition of data in the logical data model and the dynamic flow of the data in the logical process models The design framework in this book can be used to create operational databases for transaction processing systems or for data warehouses in support of decision support systems The information manager can be a flat file Oracle Database IMS NoSQL Cassandra Hadoop or any other DBMS Usage Driven Database Design emphasizes practical aspects of design and speaks to what works what doesn t work and what

to avoid at all costs Included in the book are lessons learned by the author over his 30 years in the corporate trenches Everything in the book is grounded on good theory yet demonstrates a professional and pragmatic approach to design that can come only from decades of experience Presents an end to end framework from logical data modeling through physical schema definition Includes lessons learned techniques and tricks that can turn a database disaster into a success Applies to all types of database management systems including NoSQL such as Cassandra and Hadoop and mainstream SQL databases such as Oracle and SQL Server What You ll Learn Create logical data models that accurately reflect the real world of the user Create usage scenarios reflecting how applications will use a new database Merge static data models with dynamic process models to create resilient yet flexible database designs Support application requirements by creating responsive database schemas in any database architecture Cope with big data and unstructured data for transaction processing and decision support systems Recognize when relational approaches won t work and when to turn toward NoSQL solutions such as Cassandra or Hadoop Who This Book Is For System developers including business analysts database designers database administrators and application designers and developers who must design or interact with database systems 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 Essentials: The Ultimate Reference (Second Edition)** Graeme C.Simsion,2002-12-14 Data Modeling Essentials Third Edition provides expert tutelage for data modelers business analysts and systems designers at all levels Beginning with the

basics this 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 The third edition of this popular book retains its distinctive hallmarks of readability and usefulness but has been given significantly expanded coverage and reorganized for greater reader comprehension Authored by two leaders in the field Data Modeling Essentials Third Edition is the ideal reference for professionals and students looking for a real world perspective Overview of Data Modeling What is Data Modeling Basic Normalization The Entity Relationship Approach Subtypes and Supertypes Putting it all together Organizing the Data Modeling Task Advanced Data Modeling More About Relationships and Foreign Keys Advanced Normalization Primary Keys and Identity Attributes Time Dependent Data Modeling Business Rules Modeling for Data Warehouses and Data Marts Corporate Data Modeling

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

Database Design: Know It All Toby J. Teorey, Tony Morgan, Thomas P. Nadeau, Bonnie O'Neil, Elizabeth O'Neil, Patrick O'Neil, Markus Schneider, Graeme Simsion, Graham Witt, Stephen Buxton, Lowell Fryman, Ralf Hartmut Güting, Terry Halpin, Jan L. Harrington, W.H. Inmon, Sam S. Lightstone, Jim Melton, 2008-10-23 This book brings all of the elements of database design together in a single volume saving the reader the time and expense of making multiple purchases It consolidates both introductory and advanced topics thereby covering the gamut of database design methodology from ER and UML techniques to conceptual data modeling and table transformation to storing XML and querying moving objects databases The proposed book expertly combines the finest database design material from the Morgan Kaufmann portfolio Individual chapters are derived from a select group of MK books authored by the best and brightest in the field These chapters are combined into one comprehensive volume in a way that allows it to be used as a reference work for those interested in new and developing aspects of database design This book represents a quick and efficient way to unite valuable content from leading database design experts thereby creating a definitive one stop shopping opportunity for customers to receive the information they would otherwise need to round up from separate sources Chapters contributed by various recognized experts in the field let the reader remain up to date and fully informed from multiple viewpoints Details multiple relational models and modeling languages enhancing the reader s technical expertise and familiarity with design related requirements specification Coverage of both theory and practice brings all of the elements of database design together in a single volume saving the reader the time and expense of making multiple purchases

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