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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

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

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 first edition while adding a companion volume to take care of more specific requirements of different businesses each volume is accompanied by a cd rom which is sold separately each cd rom provides powerful design templates discussed in the books in a ready to use electronic format allowing companies and individuals to develop the databases they need at a fraction of the cost and a third of the time it would take to build them from scratch with each business function boasting its own directory this cd rom provides a variety of data models for specific implementations in such areas as financial services insurance retail healthcare universities and telecom

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

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

the data model resource book arms you with a set of proven data models and data warehouse designs for the core functions shared by most businesses you get a comprehensive set of detailed models for marketing and sales human resources inventory professional services order processing billing product delivery work order management budgeting accounting and more the authors also show you how to quickly convert the logical data models into enterprise wide data warehouses as well as data marts

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 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

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

the purpose of this book is to develop a philosophy of data information the book builds on some of the themes of william kent s data and reality kent 2012 the book examines some traditional and contemporary theories of meaning from philosophy and borrows from some contemporary linguistic research regarding the importance of metaphor in human cognition by examining the philosophy of data and information the reader will come away with a new appreciation of how data models are used to communicate the intent of the designers of information systems

market desc database administrators data modelers and analysts database designers special features the author is a widely known and respected authority on data modeling he will actively promote the book in writing and speaking engagements wiley is the leading publisher of books on databases and data warehousing about the book the data model resource book volume 3 presents a collection of common patterns that can be used to customize existing data models including those in volumes 1 and 2 as well as create new data models each chapter describes a universal data pattern which is applicable across a wide variety of organizations and includes several examples of specific implementations the authors also provide more general guidelines and best practices for implementing these patterns and in particular how to customize existing models as well as convert models into physical database designs

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

annotation learn about the high level data model and master the techniques for building one including a comprehensive ten step approach and hands on exercises to help you practice topics on your own

if you are seeking expert tutelage for data modelling tools and techniques you need look no further regardless of your level of expertise as a data analyst data modeler data architect database designer database application developer database administrator business analysts or systems designers this book will serve as an invaluable resource in your effort to build reliable and effective data models beginning with the basics this book provides a thorough grounding in theory before guiding the reader through the various stages of applied data modelling

and database design later chapters delve into advanced topics and enterprise data modelling covering business rules data warehousing data migration and more this new and expanded edition updates existing content where current practice dictates and adds new content on modelling xml master and reference data mapping between models data migration and other areas of intense interest to the data modelling community new to this edition enhanced contextual treatment of data modeling by providing more examples of data models and their quality in examining where the benefits derive new chapter on master and reference data management new chapter of data migration new chapter on modeling xml messages new chapter on mapping between data models the perfect balance of theory and practice giving you both the foundation and the tools to develop high quality data models perfect reference for the reflective practitioner providing clear and accessible guidance to data modeling techniques an invaluable resource containing vast amounts of useful and well illustrated information to those involved in data modeling from the novice to the expert

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 first edition while adding a companion volume to take care of more specific requirements of different businesses each volume is accompanied by a cd rom which is sold separately each cd rom provides powerful design templates discussed in the books in a ready to use electronic format allowing companies and individuals to develop the databases they need at a fraction of the cost and a third of the time it would take to build them from scratch with each business function boasting its own directory this cd rom provides a variety of data models for specific implementations in such areas as financial services insurance retail healthcare universities and telecom

the semantic data models relevant work of others framework for data model definition the semantic graph data model the semantic relation data model data model equivalence definitions the restricted semantic relation data model constructive proof of data model equivalence

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

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