# DATA

## MODELING MADE SIMPLE

### With CA ERwin Data Modeler r8

**DONNA BURBANK  STEVE HOBERMAN**

**TECHNICAL EDITOR: NEIL BUCHWALTER**

# Data Modeling Made Simple With Ca Erwin Data Modeler R8

M. Carla DeAngelis

**Data Modeling Made Simple With Ca Erwin Data Modeler R8:**

 **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 **Data Modeling Made Simple with Erwin DM** Harris Jeff,Steve Hoberman,2020-06 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 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      **Data Modeling for the Business** Steve Hoberman,Donna Burbank,Chris Bradley,2009 Did you ever try getting Business and IT to agree on the project scope for a new application Or try getting the Sales Marketing department to agree on the target audience Or try bringing new team members up to speed on the hundreds of tables in your data warehouse without them dozing off You can be the hero in each of these and hundreds of other scenarios by building a High Level Data Model The High Level Data Model is a simplified view of our complex environment It can be a powerful communication tool of the key concepts within our application development projects business intelligence and master data management programs and all enterprise and industry initiatives Learn about the High Level Data Model and master the techniques for building one including a comprehensive ten step approach Know how to evaluate toolsets for building and storing your models Practice exercises and walk through a case study to reinforce your modelling skills      Data Modeling Made Simple with PowerDesigner Steve Hoberman,George McGeachie,2011 Annotation This book will provide the business or IT professional with a practical working knowledge of data modelling concepts and best practices and how to apply these principles with PowerDesigner You will build many PowerDesigner data models along the way increasing your skills in first the fundamentals and later in the book the more advanced features of PowerDesigner The book contains six sections Section I introduces data modelling along with its purpose and variations Also included is an explanation of the important role of a data modelling tool the key features

required of any data modelling tool and an introduction to the essential features of PowerDesigner Section II explains all of the components on a data model including entities data elements relationships and keys and describes how to create and manage these objects in PowerDesigner Also included is a discussion of the importance of quality names and definitions for your objects Section III dives into the relational and dimensional subject area logical and physical data models and describes how PowerDesigner supports these models and the connections between them Learn how to get information into and out of PowerDesigner and improve the quality of your data models with a cross reference of key PowerDesigner features with the Data Model Scorecard Section IV contains a PowerDesigner workshop designed to consolidate everything for you Section V focuses on additional PowerDesigner features some of which have already been introduced which make life easier for data modellers Section VI discusses PowerDesigner topics beyond data modelling including the XML physical model and the other types of model available in PowerDesigner it also discusses the role of PowerDesigner in data management using the DAMA Data Management Body of Knowledge DAMA DMBOK framework **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     *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 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 Master Class Training Manual* Steve Hoberman,2019-05-14 This is the eighth 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 R You will know not just how to build a data model but how to build a data model well Three case studies and many exercises reinforce the material and will enable you to apply these techniques in your current projects Top 5 Objectives Determine how and when to use each data modeling component Apply techniques to elicit data requirements as a prerequisite to building a data model Build relational and dimensional conceptual logical and physical data models Incorporate supportability and extensibility features into the data model Assess the quality of a data model     Data Modeling Master Class Training Manual 7th Edition Steve Hoberman,2017-06 This is the seventh 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 R 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 R 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 enterprise architecture     **Data Modeling Master Class Training Manual 2nd Edition** Steve Hoberman,2011 A training manual for the Data Modelling Master Class It includes a course on requirements gathering and data modelling containing four days of practical techniques for producing solid relational and dimensional data models     **Data Modeling Master Class Training Manual 5th Edition** Steve Hoberman,2014 This is the fifth 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 **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 Master Class Training Manual 9th Edition** Steve Hoberman,2021 This is the ninth 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      <u>Data Modeling Made Simple with ER/Studio Data Architect</u> Steve Hoberman,2015 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
  **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

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**Data Modeling Master Class Training Manual** Steve Hoberman,2011 This is the third 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 **Data Modeling with ERwin** M. Carla DeAngelis,2000 From the first chapter author Carla DeAngelis skillfully explains the normally complex concepts of Data Modeling a critical success factor in the information based enterprises of today Carla tackles complex topics such as Logical Data Models Modeling Methodologies Relationships and Attributes in a clear style that makes it simple for anyone to begin applying them immediately Once the foundation has been laid Carla teaches you to develop your own databases with ERwin You will learn to use the tool to create primary keys and assign attributes build data relationships with point and click ease build and edit tables with Erwin s built in editors create indexes with the Index Editor write custom SQL scripts and process reports with the Report Tools

**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 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

The Enigmatic Realm of **Data Modeling Made Simple With Ca Erwin Data Modeler R8**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Data Modeling Made Simple With Ca Erwin Data Modeler R8** a literary masterpiece penned with a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book is core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of people who partake in its reading experience.

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