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model) is an important yet
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accurate and up-to-date data model can serve as an important reference tool for DBAs, developers, and other

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application to do).

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developers to create a
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helpful to identify missing
and redundant data though
the initial creation

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This approach is referred to as "query-first design"—building your data model based on what types of

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queries the database will need to support. For example, in the KillrVideo example below, the sequence of workflow steps matters because it helps us determine that a userid and videoid are required to

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This work has been revised
and updated to provide a
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universes (e.g. business,
university, public and home
library, geography, history,
etc.) is provided,
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library of examples. Four
data models are presented
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and human aspects of
modeling, such as working
with business specialists,
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(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

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Fundamental Principles are
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

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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
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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

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With the aim of simplifying
relational database
modeling, Database Modeling
Step-by-Step presents the

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standard approach to database normalization and then adds its own approach, which is a more simplistic, intuitive way to building relational database models. Going from basics to contemporary topics, the

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book opens with relational
data modeling and ends with
BigData database modeling
following a road map of the
evolution in relational
modeling and including brief
introductions to data
warehousing and BigData

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modeling. A break-down of
the elements of a model
explains what makes up a
relational data model. This
is followed by a comparison
between standard
normalization and a more
simplistic intuitive

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approach to data modeling
that a beginner can follow
and understand. A brief
chapter explains how to use
the database programming
language SQL (Structured
Query Language), which reads
from and writes to a

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topics including Principles

denormalization that leads
into data warehouses and
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The book explains how there
is not much to logical data
modeling in BigData
databases because as they

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are often schema-less, which means that BigData databases do not have schemas embedded into the database itself, they have no metadata and thus not much of a logical data model. Online bonus chapters include a case

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Entity-relationship (E-R)
diagrams are time-tested

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diagramming to become expe

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intelligence (DW/BI)
requirements and turning
them into high performance
dimensional models in the
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modelstorming (data modeling
] brainstorming) with BI**

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stakeholders. This book describes BEAM, an agile approach to dimensional modeling, for improving communication between data warehouse designers, BI stakeholders and the whole DW/BI development team. BEAM

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provides tools and
techniques that will
encourage DW/BI designers
and developers to move away
from their keyboards and
entity relationship based
tools and model
interactively with their

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colleagues. The result is

everyone thinks

dimensionally from the

outset! Developers

understand how to

efficiently implement

dimensional modeling

solutions. Business

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stakeholders feel ownership of the data warehouse they have created, and can already imagine how they will use it to answer their business questions. Within this book, you will learn:
Agile dimensional modeling

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using Business Event
Analysis & Modeling (BEAM)
Modelstorming: data modeling
that is quicker, more
inclusive, more productive,
and frankly more fun!

Telling dimensional data
stories using the 7Ws (who,

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what, when, where, how many,
why and how) Modeling by
example not abstraction;
using data story themes, not
crow's feet, to describe
detail Storyboarding the
data warehouse to discover
conformed dimensions and

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Visual modeling: sketching
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design documentation:

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helps clients to review and simplify their data warehouse designs, and advises vendors on visual data modeling techniques. He regularly teaches agile dimensional modeling courses worldwide and has taught

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dimensional DW/BI skills to
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