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Database
Principles
2nd Edition

*The most updated
PostgreSQL book on
the market, covering
version 8.0

*Highlights the most
popular PostgreSQL
APIs, including C,
Perl, PHP, and Java

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*This is two books in one; it simultaneously covers key relational database design principles, while teaching PostgreSQL. This lean, focused text concentrates on giving students a clear understanding of database fundamentals while providing a broad survey of all the

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major topics of the field. The result is a text that is easily covered in one semester, and that only includes topics relevant to the database course. Mark Gillenson, an associate editor of the Journal of Database Management, has 15 years experience of

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working with and
teaching at IBM Corp.
and 15 years of
teaching experience at
the college level. He
writes in a clear,
friendly style that
progresses step-by-
step through all of the
major database topics.
Each chapter begins
with a story about a
real company's

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Database application,
Principles, 2nd
Edition, and is packed with
examples. When
students finish the
text, they will be able
to immediately apply
what they've learned in
business.

This volume presents
the results of
approximately 15
years of work from
researchers around the

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world on the use of
fuzzy set theory to
represent imprecision
in databases. The
maturity of the
research in the
discipline and the
recent developments
in
commercial/industrial
fuzzy databases
provided an
opportunity to produce

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this survey. In this introduction we will describe briefly how fuzzy databases fit into the overall design of database systems and then overview the organization of the text. FUZZY

DATABASE

LANDSCAPE The last five years have been witness to a

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revolution in the database research community. The dominant data models have changed and the consensus on what constitutes worthwhile research is in flux. Also, at this time, it is possible to gain a perspective on what has been accomplished in the area of fuzzy

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databases. Therefore, now is an opportune time to take stock of the past and establish a framework. A framework should assist in evaluating future research through a better understanding of the different aspects of imprecision that a database can model [1

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1.

This book is a comprehensive, practical, and student-friendly textbook addressing fundamental concepts in database design and applications.

An Application-oriented Approach
Principles and
Applications

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The Language of SQL
Using the Oracle
Database

How to Write
Accurate SQL Code
Principles of Data
Management
Information Modeling
and Relational
Databases, Second
Edition, provides an
introduction to ORM
(Object-Role

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Modeling) and much more. In fact, it is the only book to go beyond introductory coverage and provide all of the in-depth instruction you need to transform knowledge from domain experts into a sound database design. This book is intended for anyone with a stake in the accuracy and efficacy of databases:

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systems analysts,
information modelers,
database designers and
administrators, and
programmers. Terry
Halpin, a pioneer in the
development of ORM,
blends conceptual
information with
practical instruction that
will let you begin using
ORM effectively as
soon as possible.

Supported by examples,

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exercises, and useful
background

information, his step-by-
step approach teaches
you to develop a natural-
language-based ORM
model, and then, where
needed, abstract ER and
UML models from it.

This book will quickly
make you proficient in
the modeling technique
that is proving vital to
the development of

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accurate and efficient
databases that best meet
real business objectives.

Presents the most
indepth coverage of
Object-Role Modeling
available anywhere,
including a thorough
update of the book for
ORM2, as well as
UML2 and E-R (Entity-
Relationship) modeling.
Includes clear coverage
of relational database

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concepts, and the latest developments in SQL and XML, including a new chapter on the impact of XML on information modeling, exchange and transformation. New and improved case studies and exercises are provided for many topics.

Defining a set of guiding principles for

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data management and describing how these principles can be applied within data management functional areas; Providing a functional framework for the implementation of enterprise data management practices; including widely adopted practices, methods and techniques, functions, roles,

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deliverables and metrics; Establishing a common vocabulary for data management concepts and serving as the basis for best practices for data management professionals. DAMA-DMBOK2 provides data management and IT professionals, executives, knowledge workers, educators, and

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researchers with a framework to manage their data and mature their information infrastructure, based on these principles: Data is an asset with unique properties; The value of data can be and should be expressed in economic terms; Managing data means managing the quality of data; It takes metadata

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to manage data; It takes
planning to manage
data; Data management
is cross-functional and
requires a range of skills
and expertise; Data
management requires an
enterprise perspective;
Data management must
account for a range of
perspectives; Data
management is data
lifecycle management;
Different types of data

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have different lifecycle requirements; Managing data includes managing risks associated with data; Data management requirements must drive information technology decisions; Effective data management requires leadership commitment. This is the eBook of the printed book and may not include any media, website access codes, or

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print supplements that
may come packaged
with the bound book.

The Language of SQL,
Second Edition Many
SQL texts attempt to
serve as an encyclopedic
reference on SQL
syntax -- an approach
that is often
counterproductive,
because that information
is readily available in
online references

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published by the major database vendors. For SQL beginners, it's more important for a book to focus on general concepts and to offer clear explanations and examples of what various SQL statements can accomplish. This is that book. A number of features make The Language of SQL unique among

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introductory SQL books. First, you will not be required to download software or sit with a computer as you read the text. The intent of this book is to provide examples of SQL usage that can be understood simply by reading. Second, topics are organized in an intuitive and logical sequence. SQL

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keywords are introduced one at a time, allowing you to grow your understanding as you encounter new terms and concepts. Finally, this book covers the syntax of three widely used databases:

Microsoft SQL Server, MySQL, and Oracle.

Special “Database Differences” sidebars clearly show you any

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differences in syntax
among these three
databases, and

instructions are included
on how to obtain and
install free versions of
the databases. This is
the only book you need
to gain a quick working
knowledge of SQL and
relational databases.

·Learn How To... Use
SQL to retrieve data
from relational

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databases Apply
functions and
calculations to data

Group and summarize
data in a variety of
useful ways Use
complex logic to
retrieve only the data
you need Update data
and create new tables
Design relational
databases so that data
retrieval is easy and
intuitive Use

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spreadsheets to
transform your data into
meaningful displays

Retrieve data from
multiple tables via joins,
subqueries, views, and
set logic Create, modify,
and execute stored
procedures Install
Microsoft SQL Server,
MySQL, or Oracle
Joe Celkos SQL for
Smarties: Advanced
SQL Programming

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offers tips and techniques in advanced programming. This book is the fourth edition and it consists of 39 chapters, starting with a comparison between databases and file systems. It covers transactions and currency control, schema level objects, locating data and schema numbers, base

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tables, and auxiliary
tables. Furthermore,

procedural, semi-
procedural, and
declarative

programming are
explored in this book.

The book also presents
the different normal
forms in database
normalization, including
the first, second, third,
fourth, fifth, elementary
key, domain-key, and

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Boyce-Codd normal forms. It also offers practical hints for normalization and denormalization. The book discusses different data types, such as the numeric, temporal and character data types; the different predicates; and the simple and advanced SELECT statements. In addition, the book presents virtual tables,

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and it discusses data partitions in queries; grouping operations; simple aggregate functions; and descriptive statistics, matrices and graphs in SQL. The book concludes with a discussion about optimizing SQL. It will be of great value to SQL programmers. Expert advice from a noted

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SQL authority and
award-winning
columnist who has

given ten years service
to the ANSI SQL
standards committee

Teaches scores of
advanced techniques
that can be used with
any product, in any SQL
environment, whether it
is an SQL 92 or SQL
2008 environment

Offers tips for working

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around deficiencies and
gives insight into real-
world challenges

Designing Data-
Intensive Applications
Fundamentals of
Design, Implementation,
and Management
Facilitating Information
Sharing

Principles of Distributed
Database Systems
Beginning Databases
with PostgreSQL

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The Big Ideas Behind
Principles, 2nd
Edition
Reliable, Scalable, and
Maintainable Systems

This book
explains and
explores the
principal
techniques of
Data Mining, the
automatic
extraction of
implicit and
potentially
useful

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information from
data, which is
increasingly
used in
commercial,
scientific and
other
application
areas. It
focuses on
classification,
association rule
mining and
clustering. Each

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topic is clearly explained, with a focus on algorithms not mathematical formalism, and is illustrated by detailed worked examples. The book is written for readers without a strong background in

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mathematics or
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statistics and

any formulae

used are

explained in

detail. It can

be used as a

textbook to

support courses

at undergraduate

or postgraduate

levels in a wide

range of

subjects

Where To
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including
Principles 2nd
Edition,
Computer
Science,
Business
Studies,
Marketing,
Artificial
Intelligence,
Bioinformatics
and Forensic
Science. As an
aid to self
study, this book
aims to help

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general readers
develop the
necessary

understanding of
what is inside
the 'black box'
so they can use
commercial data
mining packages
discriminatingly
, as well as
enabling
advanced readers
or academic

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researchers to
understand or
contribute to

future technical
advances in the
field. Each
chapter has
practical
exercises to
enable readers
to check their
progress. A full
glossary of
technical terms

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used is included. This expanded third edition includes detailed descriptions of algorithms for classifying streaming data, both stationary data, where the underlying model is fixed, and data that is

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time-dependent,
where the
underlying model
changes from
time to time - a
phenomenon known
as concept
drift.

"The chapter on
object-
relational
database should
be a great
selling point

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for the book. No one else has the coverage on object relational that this chapter has; for example, the other new texts emphasize the purely object model. I think that the approach here is

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much more
practical." 2nd

Edi--Betty

Salzberg,
Northeastern
University "The
coverage of this
book is
wonderful,
especially the
cutting-edge of
object-
relational
systems . . .

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[and] this is
the only text I

have seen that
is not by

Jeffrey Ullman
that treats the
theoretical
material

appropriately.

The chapter on
dependencies and
relational
design is
excellent.

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Examples abound,
the explanations
are crisp and
clear, and the
appropriate
concepts are
discussed. I
cannot wait to
use it." --Bill
Grosky, Wayne
State University
"This book makes
an excellent
text for anyone

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just approaching
database

systems. It's
both an
accessible
refresher for
those of us who
have not been
paying careful
attention to
developments in
this area and a
useful reference
for designers

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and implementers
who need just-in-
time education."

--Jim Gray,
Microsoft
Research "This
book is
excellent!"

--Mike
Hartstein,
Oracle
Corporation,
Senior Director
of Oracle8i

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Management This
second edition
relies on the
same successful
approach that
distinguished
the first: it
covers the
principles of
database theory
with unmatched
thoroughness,
and it

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rigorously links theory to the real world of database programming and administration. A careful discussion of SQL standards and a multitude of examples drawn from actual databases- Oracle, DB2, and

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complements the
authors' concept-
oriented
instruction,
allowing you to
develop product-
specific
understanding
and to learn the
important
differences
between the SQL
dialects that

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will enable you
to write
portable
applications.

New Features

Focuses

extensively on
the object-
relational model
that is rapidly
gaining
acceptance and
revolutionizing
the database

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Collection types
and UDF's are
thoroughly
covered.

Introduces new
relational
features of SQL
taken from the
latest versions
of today's most
popular database
products,
Oracle, DB2, and

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thorough

coverage of the
SQL-99 standard,
including
additions
designed to help
you take full
advantage of the
object-
relational
model. Provides
expanded
programming

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examples
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intended to
improve your
understanding of
transaction
processing and
error handling.
Explains clearly
the principles
of logical
database design,
including those
relating to the
E-R model and

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normalization,
with a number of
new

illustrations
and examples.
Presents the
latest indexing
and query
processing
techniques, such
as bitmap
indexing, and
shows how to use
them to achieve

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significant
performance
improvements.

This third
edition of a
classic textbook
can be used to
teach at the
senior
undergraduate
and graduate
levels. The
material
concentrates on

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fundamental
theories as well
as techniques
and algorithms.

The advent of
the Internet and
the World Wide
Web, and, more
recently, the
emergence of
cloud computing
and streaming
data
applications,

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has forced a
renewal of
interest in
distributed and
parallel data
management,
while, at the
same time,
requiring a
rethinking of
some of the
traditional
techniques. This
book covers the

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breadth and
depth of this re-
emerging field.

The coverage
consists of two
parts. The first
part discusses
the fundamental
principles of
distributed data
management and
includes
distribution
design, data

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integration,
distributed
query processing
and
optimization,
distributed
transaction
management, and
replication. The
second part
focuses on more
advanced topics
and includes
discussion of

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parallel
database
systems,
distributed
object
management, peer-
to-peer data
management, web
data management,
data stream
systems, and
cloud computing.
New in this
Edition: • New

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chapters,
covering
database
replication,
database
integration,
multidatabase
query
processing, peer-
to-peer data
management, and
web data
management. •

Coverage of
Page 64/231

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emerging topics
such as data
streams and
cloud computing

- Extensive
revisions and
updates based on
years of class
testing and
feedback

Ancillary
teaching
materials are
available.

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Data is at the center of many challenges in system design today. Difficult issues need to be figured out, such as scalability, consistency, reliability, efficiency, and maintainability. In addition, we

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have an overwhelming variety of tools, including relational databases, NoSQL datastores, stream or batch processors, and message brokers. What are the right choices for your application? How

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do you make
sense of all
these buzzwords?

In this
practical and
comprehensive
guide, author
Martin Kleppmann
helps you
navigate this
diverse
landscape by
examining the
pros and cons of

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various

technologies for
processing and
storing data.

Software keeps
changing, but
the fundamental
principles
remain the same.

With this book,
software
engineers and
architects will
learn how to

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apply those ideas in practice, and how to make full use of data in modern applications. Peer under the hood of the systems you already use, and learn how to use and operate them more effectively

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Make informed
decisions by

identifying the
strengths and
weaknesses of
different tools

Navigate the
trade-offs
around

consistency,
scalability,
fault tolerance,
and complexity

Understand the

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distributed
systems research
upon which
modern databases
are built Peek
behind the
scenes of major
online services,
and learn from
their
architectures
The Practical
Guide to
Storing,

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Managing and
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Analyzing Big
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Readings in
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Fundamentals of
Relational
Database
Management
Systems
Learning SQL

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Framework,
Model, and the
First
Principles, 2nd
ed (2011)

This new edition
of an
established
textbook
provides an
introduction to
the practice and

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principles of
relational
databases. It
emphasises data
modelling and
the consequent
construction of
a database and
reflects the
importance of
Structured Query
Language (SQL).
It contains new
material on web-

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based databases
and MySQL. There

is increased

coverage of the
differences

between Access
and Oracle in

SQL. Case

studies and

sample data

feature on an

accompanying web-
sites.

The latest

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edition of a
popular text and
reference on

database

research, with
substantial new
material and
revision; covers
classical
literature and
recent hot
topics. Lessons
from database
research have

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been applied in
academic fields
ranging from
bioinformatics
to next-
generation
Internet
architecture and
in industrial
uses including
Web-based e-
commerce and
search engines.
The core ideas

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in the field
have become
increasingly
influential.

This text
provides both
students and
professionals
with a grounding
in database
research and a
technical
context for
understanding

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recent
innovations in
the field. The
readings
included treat
the most
important issues
in the database
area--the basic
material for any
DBMS
professional.
This fourth
edition has been

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substantially updated and revised, with 21 of the 48 papers new to the edition, four of them published for the first time. Many of the sections have been newly organized, and each section includes a new

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or substantially
revised

introduction
that discusses
the context,
motivation, and
controversies in
a particular
area, placing it
in the broader
perspective of
database
research. Two
introductory

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articles, never
before

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published,
provide an
organized,
current

introduction to
basic knowledge
of the field;
one discusses
the history of
data models and
query languages
and the other

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offers an architectural overview of a database system. The remaining articles range from the classical literature on database research to treatments of current hot topics,

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including a
paper on search
engine

architecture and
a paper on
application
servers, both
written
expressly for
this edition.
The result is a
collection of
papers that are
seminal and also

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accessible to a
reader who has a
basic

familiarity with
database
systems.

From a review of
the first
edition: "Modern
Data Science
with R... is
rich with
examples and is
guided by a

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strong narrative voice. What's more, it presents an organizing framework that makes a convincing argument that data science is a course distinct from applied statistics" (The

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American
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Statistician) .

Modern Data
Science with R
is a
comprehensive
data science
textbook for
undergraduates
that
incorporates
statistical and
computational
thinking to

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solve real-world
data problems.

Rather than

focus

exclusively on

case studies or

programming

syntax, this

book illustrates

how statistical

programming in

the state-of-the-

art R/RStudio

computing

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environment can
be leveraged to
extract

meaningful
information from
a variety of
data in the
service of
addressing
compelling
questions. The
second edition
is updated to
reflect the

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growing influence of the tidyverse set of packages. All code in the book has been revised and styled to be more readable and easier to understand. New functionality from packages like `sf`, `purrr`, `tidymodels`, and

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tidytext is now integrated into the text. All chapters have been revised, and several have been split, reorganized, or reimagined to meet the shifting landscape of best practice. For programmers who prefer

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content to
frills, this
guide has

succinct and
straightforward
information for
putting Access
to its full,
individually
tailored use.

Web Database
Applications
with PHP and
MySQL

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Fuzzy Databases
Database Systems
Ten Steps to
Quality Data and
Trusted
Information (TM)
Access Database
Design &
Programming
Introductory, theory-
practice balanced
text teaching the
fundamentals of

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databases to
advanced
undergraduates or
graduate students in
information systems
or computer
science.

Contents Should we
tell you the whole
story? Of course,
there is an
inevitable tension in
trying to work like

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this. For example, in Chapter 16 we talk about referential integrity. There are - essentially six different flavors of referential integrity but Access only s- ports four of them (they are the most important ones however, so you aren't missing out on too much). The

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problem is this.

Should we tell you
about the other two?

If we do, as an

Access user you

have every right to

be annoyed that we

are telling you about

a feature you can't

use. On the other

hand, the six

different types that

we describe are part

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of the relational world and this book is about that world – we are not trying to teach you how to use Access, we are simply using Access to illustrate the relational model.

Ultimately we decided to risk your ire and to describe all of the features of

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the relational model
as we see it, even if
Access doesn't

support all of them.

One advantage of
this approach is that
if you need to use a
different database
engine you will
almost certainly find
the extra information
useful. Incidentally,
this is not meant to

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imply that Access is somehow lacking as a relational database engine.

The reason we chose it for the first book is that it is such a good example of a relational database tool.

Executing Data
Quality Projects,

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Second Edition presents a structured yet flexible approach for creating, improving, sustaining and managing the quality of data and information within any organization. Studies show that data quality problems are

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costing businesses billions of dollars each year, with poor data linked to waste and inefficiency, damaged credibility among customers and suppliers, and an organizational inability to make sound decisions. Help is here! This book describes a

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proven Ten Step
approach that
combines a

conceptual
framework for
understanding
information quality
with techniques,
tools, and
instructions for
practically putting
the approach to
work – with the end

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result of high-quality
trusted data and
information, so
critical to today's
data-dependent
organizations. The
Ten Steps approach
applies to all types
of data and all types
of organizations –
for-profit in any
industry, non-profit,
government,

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education,
Principles 2nd
Edition,
healthcare, science,
research, and
medicine. This book
includes numerous
templates, detailed
examples, and
practical advice for
executing every
step. At the same
time, readers are
advised on how to
select relevant steps

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and apply them in different ways to best address the many situations they will face. The layout allows for quick reference with an easy-to-use format highlighting key concepts and definitions, important checkpoints,

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communication activities, best practices, and warnings. The experience of actual clients and users of the Ten Steps provide real examples of outputs for the steps plus highlighted, sidebar case studies called Ten Steps in Action.

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This book uses
projects as the
vehicle for data

quality work and the
word broadly to
include: 1) focused
data quality
improvement
projects, such as
improving data used
in supply chain
management, 2)
data quality

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activities in other projects such as building new applications and migrating data from legacy systems, integrating data because of mergers and acquisitions, or untangling data due to organizational breakups, and 3) ad hoc use of data

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quality steps, techniques, or activities in the course of daily work. The Ten Steps approach can also be used to enrich an organization's standard SDLC (whether sequential or Agile) and it complements general

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among others, to
show their
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