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**Which Database Is
Better For Zabbix
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Mysql**

How do you detangle a

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**monolithic system and
migrate it to a
microservice
architecture? How do you
do it while maintaining
business-as-usual? As a
companion to Sam**

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**Newman's extremely
popular Building
Microservices, this new
book details a proven
method for transitioning
an existing monolithic
system to a microservice**

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architecture. With many illustrative examples, insightful migration patterns, and a bevy of practical advice to transition your monolith enterprise into a

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**microservice operation,
this practical guide
covers multiple
scenarios and strategies
for a successful
migration, from initial
planning all the way**

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through application and database decomposition. You'll learn several tried and tested patterns and techniques that you can use as you migrate your existing

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architecture. Ideal for organizations looking to transition to microservices, rather than rebuild Helps companies determine whether to migrate, when

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**to migrate, and where to
begin Addresses
communication,
integration, and the
migration of legacy
systems Discusses
multiple migration**

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patterns and where they apply Provides database migration examples, along with synchronization strategies Explores application

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**decomposition, including
several architectural
refactoring patterns
Delves into details of
database decomposition,
including the impact of
breaking referential and**

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**transactional integrity,
new failure modes, and
more**

**Design and Use of
Relational Databases in
Chemistry helps
programmers and users**

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improve their ability to search and manipulate chemical structures and information. It illustrates how the organizational, data integrity, and

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extensibility properties of relational databases are best utilized when working with chemical information. The author facilitates an understanding of

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**existing relational
database schemas and
shows how to design new
schemas that contain
tables of data and
chemical structures. By
using database extension**

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"cartridges," he provides methods to properly store and search chemical structures. He explains how to download and install a fully

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functioning database using free, open-source chemical extension cartridges. The author also discusses how to access a database on a computer network using

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both new and existing applications. Through examples of good database design, this book shows you that relational databases are the best way to store,

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**search, and operate on
chemical information.
Features, Introduces the
concepts of relational
database management
systems and the
structured query**

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language, Discusses how relational data tables and new data types help store and use chemical information, Shows how molecular structures can become a new data type

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in a database, Describes how client programs, including web-based applications, can effectively use relational databases, Explains how a fully

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**functioning chemical
relational database
system can be built,
Includes many practical
examples of
experimental,
theoretical, and**

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structural chemical data relations, Provides a website that offers an implementation of every function from the book, a database of structures and data, and examples

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**used in the book,
allowing you to
experiment with various
search and display
options Book jacket.
The Easy, Common-Sense
Guide to Solving Real**

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**Problems with NoSQL The
Mere Mortals® tutorials
have earned worldwide
praise as the clearest,
simplest way to master
essential database
technologies. Now,**

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**there's one for today's
exciting new NoSQL
databases. NoSQL for
Mere Mortals guides you
through solving real
problems with NoSQL and
achieving unprecedented**

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scalability, cost efficiency, flexibility, and availability.

Drawing on 20+ years of cutting-edge database experience, Dan Sullivan explains the advantages,

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use cases, and terminology associated with all four main categories of NoSQL databases: key-value, document, column family, and graph databases. For

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each, he introduces pragmatic best practices for building high-value applications. Through step-by-step examples, you'll discover how to choose the right

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database for each task, and use it the right way. Coverage includes --Getting started: What NoSQL databases are, how they differ from relational databases,

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**when to use them, and
when not to Data
management principles
and design criteria:
Essential knowledge for
creating any database
solution, NoSQL or**

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**relational --Key-value
databases: Gaining more
utility from data
structures --Document
databases: Schemaless
databases, normalization
and denormalization,**

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**mutable documents,
indexing, and design
patterns --Column family
databases: Google's
BigTable design, table
design, indexing,
partitioning, and Big**

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**Data Graph databases:
Graph/network modeling,
design tips, query
methods, and traps to
avoid Whether you're a
database developer, data
modeler, database user,**

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**or student, learning
NoSQL can open up
immense new
opportunities. As
thousands of database
professionals already
know, For Mere Mortals**

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is the fastest, easiest route to mastery.

"With an easy, step-by-step approach, this guide shows beginners how to install, use, and maintain the world's

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most popular open source database: MySQL. You'll learn through real-world examples and many practical tips, including information on how to improve database

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performance. Database systems such as MySQL help data handling for organizations large and small handle data, providing robust and efficient access in ways

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**not offered by
spreadsheets and other
types of data stores.
This book is also useful
for web developers and
programmers interested
in adding MySQL to their**

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skill sets. Topics include: Installation and basic administration ; Introduction to databases and SQL ; Functions, subqueries, and other query

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**enhancements ; Improving
database performance ;
Accessing MySQL from
popular languages" --
Introductory, theory-
practice balanced text
teaching the**

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

Agile Database

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Techniques

**SQL Queries for Mere
Mortals**

**Database Design and
Implementation**

NoSQL and Big Data

Learning MySQL and

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MariaDB

**A Step by Step Approach
to Relational Database
Design and Development
Advanced Rails**

Presents an instructional guide to
SQL which uses humor and simple

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images to cover such topics as the structure of relational databases, simple and complex queries, creating multiple tables, and protecting important table data. Explains how to use the open source scripting language to process and

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validate forms, track sessions, generate dynamic images, create PDF files, parse XML files, create secure scripts, and write C language extensions.

This is the eBook of the printed book and may not include any

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Database Systems: The Complete Book is ideal for Database Systems and Database Design and

Application courses offered at the

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junior, senior and graduate levels in Computer Science departments. A basic understanding of algebraic expressions and laws, logic, basic data structure, OOP concepts, and programming environments is implied. Written by well-known

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computer scientists, this introduction to database systems offers a comprehensive approach, focusing on database design, database use, and implementation of database applications and database management systems. The first half

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of the book provides in-depth coverage of databases from the point of view of the database designer, user, and application programmer. It covers the latest database standards SQL:1999, SQL/PSM, SQL/CLI, JDBC, ODL, and XML, with

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broader coverage of SQL than most other texts. The second half of the book provides in-depth coverage of databases from the point of view of the DBMS implementor. It focuses on storage structures, query processing, and transaction

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management. The book covers the main techniques in these areas with broader coverage of query optimization than most other texts, along with advanced topics including multidimensional and bitmap indexes, distributed

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transactions, and information integration techniques.

Get up to speed on the nuances of NoSQL databases and what they mean for your organization This easy to read guide to NoSQL databases provides the type of no-

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nonsense overview and analysis that you need to learn, including what NoSQL is and which database is right for you. Featuring specific evaluation criteria for NoSQL databases, along with a look into the pros and cons of the most popular

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options, NoSQL For Dummies provides the fastest and easiest way to dive into the details of this incredible technology. You'll gain an understanding of how to use NoSQL databases for mission-critical enterprise architectures and

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projects, and real-world examples reinforce the primary points to create an action-oriented resource for IT pros. If you're planning a big data project or platform, you probably already know you need to select a NoSQL database to

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complete your architecture. But with options flooding the market and updates and add-ons coming at a rapid pace, determining what you require now, and in the future, can be a tall task. This is where NoSQL For Dummies comes in! Learn the

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basic tenets of NoSQL databases and why they have come to the forefront as data has outpaced the capabilities of relational databases Discover major players among NoSQL databases, including Cassandra, MongoDB, MarkLogic,

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Neo4J, and others Get an in-depth look at the benefits and disadvantages of the wide variety of NoSQL database options Explore the needs of your organization as they relate to the capabilities of specific NoSQL databases Big data

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and Hadoop get all the attention, but when it comes down to it, NoSQL databases are the engines that power many big data analytics initiatives. With NoSQL For Dummies, you'll go beyond relational databases to ramp up your enterprise's data

Where To Download Which Database Is Better For Zabbix Postgresql Vs Mysql architecture in no time.

Enterprise applications are about data-whether it is information about a product, the details of a user's credit card, or the color that customers prefer for their auto purchases. And as the importance of

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data has grown, so has the complexity of accessing that data. Java programmers now must choose between an alphabet soup of APIS and technologies - EJB, JDO, JDBC, SQL, RDBMS, OOIDMBS, and more on the horizon. Until now,

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developers have been left on their own to determine which model best suits their application, and how best to use their chosen API. Java Database Best Practices rescues developers from having to wade through books on each of the

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various APIs before they figure out which method to use! This comprehensive guide introduces each of the dominant APIs (Enterprise JavaBeans, Java Data Objects, the Java Database Connectivity API (JDBC) as well as

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other, lesser-known options), explores the methodology and design components that use those APIS, and then offers practices most appropriate for different types and makes of databases, as well as different types of applications. Java

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Database Best Practices also examines database design, from table and database architecture to normalization, and offers a number of best practices for handling these tasks. You'll learn how to move through the various forms of

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normalization, understand when to denormalize, and even get detailed instructions on optimizing your SQL queries to make the best use of your database structure. Through it all, this book focuses on practical application of these techniques,

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giving you information that can immediately be applied to your own enterprise projects.

Head First SQL

Database Internals

NoSQL For Dummies

Beginning Database Design

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Effective Strategies for the Agile
Software Developer

SQL & NoSQL Databases

Your Brain on SQL -- A Learner's
Guide

The #1 Easy, Commonsense

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Guide to Database Design!

Michael J. Hernandez's best-selling Database Design for Mere Mortals® has earned worldwide respect as the clearest, simplest way to learn relational database design. Now, he's made this

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hands-on, software-independent tutorial even easier, while ensuring that his design methodology is still relevant to the latest databases, applications, and best practices. Step by step, Database Design for

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Mere Mortals ® , Third

Edition, shows you how to design databases that are soundly structured, reliable, and flexible, even in modern web applications.

Hernandez guides you through everything from database

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planning to defining tables, fields, keys, table relationships, business rules, and views. You'll learn practical ways to improve data integrity, how to avoid common mistakes, and when to break the rules.

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Coverage includes

Understanding database types, models, and design terminology
Discovering what good database design can do for you—and why bad design can make your life miserable
Setting objectives for your

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database, and transforming those objectives into real designs Analyzing a current database so you can identify ways to improve it
Establishing table structures and relationships, assigning

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primary keys, setting field specifications, and setting up views Ensuring the appropriate level of data integrity for each application Identifying and establishing business rules Whatever relational database

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systems you use, Hernandez will help you design databases that are robust and trustworthy. Never designed a database before? Settling for inadequate generic designs? Running existing databases that need

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improvement? Start here.

Principles of Database Management
The Practical Guide to Storing, Managing and Analyzing Big and Small Data
Cambridge University Press

The rapidly increasing

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volume of information contained in relational databases places a strain on databases, performance, and maintainability: DBAs are under greater pressure than ever to optimize database structure for system

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performance and administration. Physical Database Design discusses the concept of how physical structures of databases affect performance, including specific examples, guidelines, and best and

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worst practices for a variety of DBMSs and configurations. Something as simple as improving the table index design has a profound impact on performance. Every form of relational database, such as

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Online Transaction Processing (OLTP), Enterprise Resource Management (ERP), Data Mining (DM), or Management Resource Planning (MRP), can be improved using the methods provided in the

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book. The first complete treatment on physical database design, written by the authors of the seminal, Database Modeling and Design: Logical Design, Fourth Edition Includes an introduction to the major

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concepts of physical database design as well as detailed examples, using methodologies and tools most popular for relational databases today: Oracle, DB2 (IBM), and SQL Server (Microsoft) Focuses on

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physical database design for exploiting B+tree indexing, clustered indexes, multidimensional clustering (MDC), range partitioning, shared nothing partitioning, shared disk data placement, materialized views, bitmap

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indexes, automated design tools, and more!

Fully revised and updated, Relational Database Design, Second Edition is the most lucid and effective introduction to relational database design available.

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Here, you'll find the conceptual and practical information you need to develop a design that ensures data accuracy and user satisfaction while optimizing performance, regardless of your

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experience level or choice of DBMS. Supporting the book's step-by-step instruction are three case studies illustrating the planning, analysis, and design steps involved in arriving at a sound design.

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These real-world examples include object-relational design techniques, which are addressed in greater detail in a new chapter devoted entirely to this timely subject. * Concepts you need to master to put the book's

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practical instruction to work. * Methods for tailoring your design to the environment in which the database will run and the uses to which it will be put. * Design approaches that ensure data accuracy

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and consistency. * Examples of how design can inhibit or boost database application performance. * Object-relational design techniques, benefits, and examples. * Instructions on how to choose and use a

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normalization technique. *

Guidelines for understanding and applying Codd's rules. *

Tools to implement a relational design using SQL.

* Techniques for using CASE tools for database design.

This book offers a

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comprehensive introduction to relational (SQL) and non-relational (NoSQL) databases. The authors thoroughly review the current state of database tools and techniques, and examine coming innovations.

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The book opens with a broad look at data management, including an overview of information systems and databases, and an explanation of contemporary database types: SQL and NoSQL databases, and their

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respective management systems The nature and uses of Big Data A high-level view of the organization of data management Data Modeling and Consistency Chapter-length treatment is afforded Data Modeling in

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both relational and graph databases, including enterprise-wide data architecture, and formulas for database design.

Coverage of languages extends from an overview of operators, to SQL and and

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QBE (Query by Example), to integrity constraints and more. A full chapter probes the challenges of Ensuring Data Consistency, covering: Multi-User Operation Troubleshooting Consistency in Massive Distributed Data

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Comparison of the ACID and BASE consistency models, and more System Architecture also gets from its own chapter, which explores Processing of Homogeneous and Heterogeneous Data; Storage and Access

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Structures; Multi-dimensional Data Structures and Parallel Processing with MapReduce, among other topics. Post-Relational and NoSQL Databases The chapter on post-relational databases discusses the limits of SQL

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- and what lies beyond, including Multi-Dimensional Databases, Knowledge Bases and and Fuzzy Databases. A final chapter covers NoSQL Databases, along with Development of Non-Relational Technologies, Key-

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Value, Column-Family and Document Stores XML Databases and Graphic Databases, and more The book includes more than 100 tables, examples and illustrations, and each chapter offers a list of

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resources for further reading. SQL & NoSQL Databases conveys the strengths and weaknesses of relational and non-relational approaches, and shows how to undertake development for big data

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applications. The book benefits readers including students and practitioners working across the broad field of applied information technology. This textbook has been recommended and developed for university

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courses in Germany, Austria and Switzerland.

DB2, Oracle, SQL Server, et al.

Models, Languages, Consistency Options and Architectures for Big Data Management

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A Guide to Modern Databases
and the NoSQL Movement
Describe the Opposition
Between an Atomic,
Procedural and Row-oriented
Style Versus a Holistic, SQL
and Data-set Oriented Style,
Within a Relational D

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Principles of Database

Management

MySQL Database Design and

Tuning

Fundamentals of Relational

Database Management Systems

Combines language tutorials

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with application design advice to cover the PHP server-side scripting language and the MySQL database engine. This book sheds light on the principles behind the relational model, which is

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fundamental to all database-backed applications--and, consequently, most of the work that goes on in the computing world today. Database in Depth: The Relational Model for

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Practitioners goes beyond the hype and gets to the heart of how relational databases actually work. Ideal for experienced database developers and designers, this concise guide gives you a

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clear view of the technology--a view that's not influenced by any vendor or product.

Featuring an extensive set of exercises, it will help you: understand why and how the relational model is still directly

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***relevant to modern database
technology (and will remain so
for the foreseeable future) see
why and how the SQL
standard is seriously deficient
use the best current
theoretical knowledge in the***

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design of their databases and database applications make informed decisions in their daily database professional activities Database in Depth will appeal not only to database developers and

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designers, but also to a diverse field of professionals and academics, including database administrators (DBAs), information modelers, database consultants, and more. Virtually everyone who

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deals with relational databases should have at least a passing understanding of the fundamentals of working with relational models. Author C.J. Date has been involved with the relational model from its

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earliest days. An exceptionally clear-thinking writer, Date lays out principle and theory in a manner that is easily understood. Few others can speak as authoritatively the topic of relational databases

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as Date can.

From ATMs to the personal finance, online shopping to networked information management, databases permeate every nook and cranny of our highly-

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connected, information-intensive world. Databases have become so integral to the business environment that, nowadays, it's next to impossible to stay competitive without the assistance of

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some sort of database technology—no matter what type or size of business you run. But developing your own database can be very tricky. In fact, whether you want to keep records for a small business

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or run a large e-commerce website, developing the right database system can be a major challenge. Which is where this friendly guide comes in. From data modeling methods and development

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***tools to Internet accessibility
and security, Database
Development For Dummies
shows you, step-by-step,
everything you need to know
about building a custom
system from the ground up.***

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***You'll discover how to: Model
data accurately Design a
reliable functional database
Deliver robust relational
databases on time and on
budget Build a user-friendly
database application Put your***

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***database on the Web In plain
English, author Allen Taylor
acquaints you with the most
popular data modeling
methods, and he shows you
how to systematically design
and develop a system***

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incorporating a database and one or more applications that operate on it. Important topics he explores include:

Understanding database architecture and how it has evolved Recognizing how

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***database technology affects
everyday life Using a
structured approach to
database development
Creating an appropriate data
model Developing a reliable
relational design***

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Understanding the complexities you're likely to encounter in designing a database and how to simplify them Implementing your design using Microsoft Access 2000, SQL Server and other

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powerful database

***development tools Keeping
your database secure Putting
your database on the Internet
Today's powerful, low-cost
database development tools
make it possible for virtually***

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***anybody to create their own
database. Get Database
Development For Dummies
and discover what it takes to
design, develop and
implement a sophisticated
database system tailored to***

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you and your company's current and future data storage and management needs.

A guide to building applications with Rails covers such topics as

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***metaprogramming, Active
Support library, advanced
database functions, security
principles, RESTful
architecture, and optimizing
performance.***

"It's not easy to find such a

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***generous book on big data
and databases. Fortunately,
this book is the one." Feng Yu.
Computing Reviews. June 28,
2016. This is a book for
enterprise architects, database
administrators, and***

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developers who need to understand the latest developments in database technologies. It is the book to help you choose the correct database technology at a time when concepts such as Big

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Data, NoSQL and NewSQL are making what used to be an easy choice into a complex decision with significant implications. The relational database (RDBMS) model completely dominated

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database technology for over 20 years. Today this "one size fits all" stability has been disrupted by a relatively recent explosion of new database technologies. These paradigm-busting technologies are

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***powering the "Big Data" and
"NoSQL" revolutions, as well
as forcing fundamental
changes in databases across
the board. Deciding to use a
relational database was once
truly a no-brainer, and the***

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various commercial relational databases competed on price, performance, reliability, and ease of use rather than on fundamental architectures. Today we are faced with choices between radically

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different database

***technologies. Choosing the
right database today is a
complex undertaking, with
serious economic and
technological consequences.
Next Generation Databases***

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***demystifies today's new
database technologies. The
book describes what each
technology was designed to
solve. It shows how each
technology can be used to
solve real word application***

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and business problems. Most importantly, this book highlights the architectural differences between technologies that are the critical factors to consider when choosing a database

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***platform for new and
upcoming projects. Introduces
the new technologies that
have revolutionized the
database landscape Describes
how each technology can be
used to solve specific***

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***application or business
challenges Reviews the most
popular new wave databases
and how they use these new
database technologies
A Hands-On Guide to
Relational Database Design***

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SQL For Dummies

***Seven Databases in Seven
Weeks***

***Relational Theory for
Practitioners***

***Evolutionary Patterns to
Transform Your Monolith***

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Android Database Best

Practices

Database Design for Mere

Mortals

***Describes the features and
functions of Apache Hive,
the data infrastructure for***

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Hadoop.

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

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maintainability. In addition, we have an overwhelming variety of tools, including relational databases, NoSQL datastores, stream or batch processors, and message brokers. What are the right

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choices for your application? How do you make sense of all these buzzwords? In this practical and comprehensive guide, author Martin Kleppmann helps you navigate this diverse

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landscape by examining the pros and cons of various technologies for processing and storing data. Software keeps changing, but the fundamental principles remain the same. With this

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***book, software engineers
and architects will learn how
to apply those ideas in
practice, and how to make
full use of data in modern
applications. Peer under the
hood of the systems you***

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***already use, and learn how
to use and operate them
more effectively Make
informed decisions by
identifying the strengths and
weaknesses of different tools
Navigate the trade-offs***

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around consistency, scalability, fault tolerance, and complexity Understand the distributed systems research upon which modern databases are built Peek behind the scenes of major

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***online services, and learn
from their architectures***

***The vast majority of software
applications use relational
databases that virtually
every application developer
must work with. This book***

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introduces you to database design, whether you're a DBA or database developer. You'll discover what databases are, their goals, and why proper design is necessary to achieve those

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goals. Additionally, you'll master how to structure the database so it gives good performance while minimizing the chance for error. You will learn how to decide what should be in a

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***database to meet the
application's requirements.
Tuning your database for
optimal performance means
more than following a few
short steps in a vendor-
specific guide. For maximum***

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improvement, you need a broad and deep knowledge of basic tuning principles, the ability to gather data in a systematic way, and the skill to make your system run faster. This is an art as

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***well as a science, and
Database Tuning: Principles,
Experiments, and
Troubleshooting Techniques
will help you develop
portable skills that will allow
you to tune a wide variety of***

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database systems on a multitude of hardware and operating systems. Further, these skills, combined with the scripts provided for validating results, are exactly what you need to

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evaluate competing database products and to choose the right one. Forward by Jim Gray, with invited chapters by Joe Celko and Alberto Lerner Includes industrial contributions by Bill

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McKenna

***(RedBrick/Informix), Hany
Saleeb (Oracle), Tim Shetler
(TimesTen), Judy Smith
(Deutsche Bank), and Ron
Yorita (IBM) Covers the
entire system environment:***

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***hardware, operating system,
transactions, indexes,
queries, table design, and
application analysis
Contains experiments
(scripts available on the
author's site) to help you***

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***verify a system's
effectiveness in your own
environment Presents
special topics, including
data warehousing, Web
support, main memory
databases, specialized***

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***databases, and financial
time series Describes
performance-monitoring
techniques that will help you
recognize and troubleshoot
problems
A hands-on beginner's guide***

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to designing relational databases and managing data using Microsoft Access
Relational databases represent one of the most enduring and pervasive forms of information

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technology. Yet most texts covering relational database design assume an extensive, sophisticated computer science background. There are texts on relational database software tools like

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Microsoft Access that assume less background, but they focus primarily on details of the user interface, with inadequate coverage of the underlying design issues of how to structure

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***databases. Growing out of
Professor Jonathan
Eckstein's twenty years'
experience teaching courses
on management information
systems (MIS) at Rutgers
Business School, this book***

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***fills this gap in the literature
by providing a rigorous
introduction to relational
databases for readers
without prior computer
science or programming
experience. Relational***

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***Database Design for
Business, with Microsoft
Access helps readers to
quickly develop a thorough,
practical understanding of
relational database design.
It takes a step-by-step, real-***

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***world approach, using
application examples from
business and finance every
step the way. As a result,
readers learn to think
concretely about database
design and how to address***

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***issues that commonly arise
when developing and
manipulating relational
databases. By the time they
finish the final chapter,
students will have the
knowledge and skills needed***

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to build relational databases with dozens of tables. They will also be able to build complete Microsoft Access applications around such databases. This text: Takes a hands-on approach using

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***numerous real-world
examples drawn from the
worlds of business, finance,
and more Gets readers up
and running, fast, with the
skills they need to use and
develop relational databases***

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with Microsoft Access Moves swiftly from conceptual fundamentals to advanced design techniques Leads readers step-by-step through data management and design, relational database

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***theory, multiple tables and
the possible relationships
between them, Microsoft
Access features such as
forms and navigation,
formulating queries in SQL,
and normalization***

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***Introductory Relational
Database Design for
Business, with
Microsoft Access is the
definitive guide for
undergraduate and graduate
students in business,***

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***finance, and data analysis
without prior experience in
database design. While
Microsoft Access is its
primary “hands-on” learning
vehicle, most of the skills in
this text are transferrable to***

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***other relational database
software such as MySQL.***

Heading in the Right

***Direction with MySQL and
MariaDB***

Second Edition

NoSQL Distilled

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***Getting Started with NoSQL
Next Generation Databases
Two Styles of Database
Development
A Brief Guide to the
Emerging World of Polyglot
Persistence***

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Data is getting bigger and more complex by the day, and so are your choices in handling it. Explore some of the most cutting-edge databases available - from a traditional relational database to newer NoSQL approaches - and make informed

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decisions about challenging data storage problems. This is the only comprehensive guide to the world of NoSQL databases, with in-depth practical and conceptual introductions to seven different technologies: Redis, Neo4J,

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CouchDB, MongoDB, HBase, Postgres, and DynamoDB. This second edition includes a new chapter on DynamoDB and updated content for each chapter. While relational databases such as MySQL remain as relevant as ever, the alternative,

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NoSQL paradigm has opened up new horizons in performance and scalability and changed the way we approach data-centric problems. This book presents the essential concepts behind each database alongside hands-on examples that make each

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technology come alive. With each database, tackle a real-world problem that highlights the concepts and features that make it shine. Along the way, explore five database models - relational, key/value, columnar, document, and graph - from the

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perspective of challenges faced by real applications. Learn how MongoDB and CouchDB are strikingly different, make your applications faster with Redis and more connected with Neo4J, build a cluster of HBase servers using cloud services such as

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Amazon's Elastic MapReduce, and more. This new edition brings a brand new chapter on DynamoDB, updated code samples and exercises, and a more up-to-date account of each database's feature set. Whether you're a programmer building the next big

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thing, a data scientist seeking solutions to thorny problems, or a technology enthusiast venturing into new territory, you will find something to inspire you in this book. What You Need: You'll need a *nix shell (Mac OS or Linux preferred, Windows

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users will need Cygwin), Java 6 (or greater), and Ruby 1.8.7 (or greater). Each chapter will list the downloads required for that database.

Uncover the secrets of SQL and start building better relational databases today! This fun and friendly guide

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will help you demystify database management systems so you can create more powerful databases and access information with ease. Updated for the latest SQL functionality, SQL For Dummies, 8th Edition covers the core SQL language and shows you

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how to use SQL to structure a DBMS, implement a database design, secure your data, and retrieve information when you need it. Includes new enhancements of SQL:2011, including temporal data functionality which allows you to set valid times for

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transactions to occur and helps prevent database corruption Covers creating, accessing, manipulating, maintaining, and storing information in relational database management systems like Access, Oracle, SQL Server, and MySQL Provides tips for

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keeping your data safe from theft, accidental or malicious corruption, or loss due to equipment failures and advice on eliminating errors in your work Don't be daunted by database development anymore - get SQL For Dummies, 8th Edition, and you'll be

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on your way to SQL stardom.

The need to handle increasingly larger data volumes is one factor driving the adoption of a new class of nonrelational “NoSQL” databases.

Advocates of NoSQL databases claim they can be used to build systems that

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are more performant, scale better, and are easier to program. NoSQL Distilled is a concise but thorough introduction to this rapidly emerging technology. Pramod J. Sadalage and Martin Fowler explain how NoSQL databases work and the ways that they

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may be a superior alternative to a traditional RDBMS. The authors provide a fast-paced guide to the concepts you need to know in order to evaluate whether NoSQL databases are right for your needs and, if so, which technologies you should

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explore further. The first part of the book concentrates on core concepts, including schemaless data models, aggregates, new distribution models, the CAP theorem, and map-reduce. In the second part, the authors explore architectural and design issues

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associated with implementing NoSQL. They also present realistic use cases that demonstrate NoSQL databases at work and feature representative examples using Riak, MongoDB, Cassandra, and Neo4j. In addition, by drawing on Pramod Sadalage's

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pioneering work, NoSQL Distilled shows how to implement evolutionary design with schema migration: an essential technique for applying NoSQL databases. The book concludes by describing how NoSQL is ushering in a new age of Polyglot

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Persistence, where multiple data-storage worlds coexist, and architects can choose the technology best optimized for each type of data access. This concise guide sheds light on the principles behind the relational model, which underlies all database

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products in wide use today. It goes beyond the hype to give you a clear view of the technology -- a view that's not influenced by any vendor or product. Suitable for experienced database developers and designers. Describes Agile Modeling Driven

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Design (AMDD) and Test-Driven Design (TDD) approaches, database refactoring, database encapsulation strategies, and tools that support evolutionary techniques Agile software developers often use object and relational database (RDB)

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technology together and as a result must overcome the impedance mismatch The author covers techniques for mapping objects to RDBs and for implementing concurrency control, referential integrity, shared business logic,

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security access control, reports, and XML An agile foundation describes fundamental skills that all agile software developers require, particularly Agile DBAs Includes object modeling, UML data modeling, data normalization, class

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normalization, and how to deal with legacy databases Scott W. Ambler is author of Agile Modeling (0471202827), a contributing editor with Software Development (www.sdmagazine.com), and a featured speaker at software

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conferences worldwide

Introductory Relational Database
Design for Business, with Microsoft
Access

Relational Database Index Design
and the Optimizers

The Database Professional's Guide to

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Exploiting Indexes, Views, Storage,
and More

NoSQL for Mere Mortals

Database Tuning

Relational Database Design Clearly
Explained

Programming PHP

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Battle-Tested Strategies for Storing, Managing, and Sharing Android Data “Android™ Database Best Practices goes well beyond API documentation to offer strategic advice about how to handle data in an Android

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application and the tools needed to develop productively. This arms the developer with a trove of solutions to nearly any problem an application may face involving data. Mastering the concepts in this book are

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therefore essential for any developer who wants to create professional Android applications.” –Greg Milette, Android developer, Gradison Technologies, Inc. This is the first guide to focus on one of the

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most critical aspects of Android development: how to efficiently store, retrieve, manage, and share information from your app's internal database.

Through real-world code examples, which you can use in

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your own apps, you'll learn how to take full advantage of SQLite and the database-related classes on Android. A part of Addison-Wesley's Android™ Deep Dive series for experienced Android developers, **Android Database**

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Best Practices draws on Adam Stroud's extensive experience leading cutting-edge app projects. Stroud reviews the core database theory and SQL techniques you need to efficiently build, manipulate, and

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read SQLite databases. He explores SQLite in detail, illuminates Android's APIs for database interaction, and shares modern best practices for working with databases in the Android environment. Through a

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complete case study, you'll learn how to design your data access layer to simplify all facets of data management and avoid unwanted technical debt. You'll also find detailed solutions for common challenges in building

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data-enabled Android apps, including issues associated with threading, remote data access, and showing data to users.

Extensive, up-to-date sample code is available for download at github.com/android-database-

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best-practices/device-database.

You will Discover how SQLite database differs from other relational databases Use SQL DDL to add structure to a database, and use DML to manipulate data Define and work

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with SQLite data types Persist highly structured data for fast, efficient access Master Android classes for create, read, update, and delete (CRUD) operations and database queries Share data within or between apps via

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content providers Master efficient UI strategies for displaying data, while accounting for threading issues Use Android's Intents API to pass data between activities when starting a new activity or service Achieve two-

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way communication between apps and remote web APIs
Manage the complexities of app-to-server communication, and avoid common problems Use Android's new Data Binding API to write less code and improve

Where To Download Which Database Is Better For Zabbix Postgresql Vs Mysql performance

The authoritative, hands-on guide to advanced MySQL programming and administration techniques for high performance is here. MySQL Database Design and Tuning is the only

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guide with coverage of both the basics and advanced topics, including reliability, performance, optimization and tuning for MySQL. This clear, concise and unique source for the most reliable MySQL performance

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information will show you how to:
Deploy the right MySQL product for your performance needs. Set up a performance management and monitoring environment using tools from MySQL.
Implement the right indexing

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strategy Apply good performance strategy when developing software to work with the MySQL database. Configure dozens of variable to correctly tune the MySQL engine. If you deal with the intricacies and challenges of

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advanced MySQL functionality on a daily basis, you will be able to build on your knowledge with author Robert Schneider's real-world experiences in MySQL Database Design and Tuning. Presents a guide to writing

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effective SQL queries, from simple data selection and filtering to joining multiple tables and modifying sets of data, with information on how to solve a variety of challenging SQL problems.

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This book provides comprehensive coverage of fundamentals of database management system. It contains a detailed description on Relational Database Management System Concepts.

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There are a variety of solved examples and review questions with solutions. This book is for those who require a better understanding of relational data modeling, its purpose, its nature, and the standards used in

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creating relational data model.

This textbook examines database systems from the viewpoint of a software developer. This perspective makes it possible to investigate why database systems are the

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way they are. It is of course important to be able to write queries, but it is equally important to know how they are processed. We e.g. don't want to just use JDBC; we also want to know why the API contains the

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classes and methods that it does. We need a sense of how hard is it to write a disk cache or logging facility. And what exactly is a database driver, anyway? The first two chapters provide a brief overview of database

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systems and their use. Chapter 1 discusses the purpose and features of a database system and introduces the Derby and SimpleDB systems. Chapter 2 explains how to write a database application using Java. It

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presents the basics of JDBC, which is the fundamental API for Java programs that interact with a database. In turn, Chapters 3-11 examine the internals of a typical database engine. Each chapter covers a different

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database component, starting with the lowest level of abstraction (the disk and file manager) and ending with the highest (the JDBC client interface); further, the respective chapter explains the main issues

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concerning the component, and considers possible design decisions. As a result, the reader can see exactly what services each component provides and how it interacts with the other components in the system. By

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the end of this part, s/he will have witnessed the gradual development of a simple but completely functional system. The remaining four chapters then focus on efficient query processing, and focus on the

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sophisticated techniques and algorithms that can replace the simple design choices described earlier. Topics include indexing, sorting, intelligent buffer usage, and query optimization. This text is intended for upper-level

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undergraduate or beginning graduate courses in Computer Science. It assumes that the reader is comfortable with basic Java programming; advanced Java concepts (such as RMI and JDBC) are fully explained in the

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text. The respective chapters are complemented by “end-of-chapter readings” that discuss interesting ideas and research directions that went unmentioned in the text, and provide references to relevant web

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pages, research articles, reference manuals, and books. Conceptual and programming exercises are also included at the end of each chapter. Students can apply their conceptual knowledge by

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examining the SimpleDB (a simple but fully functional database system created by the author and provided online) code and modifying it.

Database in Depth

Database Systems

Where To Download Which Database Is Better For Zabbix Postgresql Vs Mysql Programming Hive

A Deep Dive into How
Distributed Data Systems Work
Principles, Experiments, and
Troubleshooting Techniques
Design and Use of Relational
Databases in Chemistry

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**Six-Step Relational
Database Design™ bridges
the gaps between database
theory, database modeling,
and database
implementation by
outlining a simple but**

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**reliable six-step process for
accurately modeling user
data on a Crow's Foot
Relational Model Diagram,
and then demonstrating
how to implement this
model on any relational**

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database management system. The second edition contains a new chapter on implementation that goes through the steps necessary to implement each of the case studies on a relational

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database management system, clearly relating the design to implementation and database theory. In addition, questions are also included at the end of each of the six steps and one of

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**the previous case studies
has been replaced, making
the case study selection
more diverse. Six-Step
Relational Database
Design™ uses three case
studies and starts with a**

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statement of the problem by the client and then goes through the six steps necessary to create a reliable and accurate data model of the client's business requirements. This

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**model can then be used to
implement the database on
any relational database
management system. Six-
Step Relational Database
Design™ should be used
as a handbook for students**

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and professionals in the software-development field. The technique described in this book can be used by students for quickly developing relational databases for their

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**applications, and by
professionals for developing
sturdy, reliable, and
accurate relational
database models for their
software applications.
This book is about how to**

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write the best software code inside a relational database. The major goal is to reveal the opposition between two possible styles of development. The first style is specific to application

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developers. It is an atomic, row and procedural oriented style inspired by the structured models of programming. This is the classic style of programming. Many

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**application developers write
in the relational database
exactly like in the user
interface. By opposition,
the other style of
development is holistic,
data set and SQL oriented.**

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This is the style of a database developer. The purpose of the book is to compare the two styles and to promote the holistic style of development as the most suitable one. Secondly, the

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set based and holistic style of development is not promoted enough in universities and many application developers are not fully aware of it. There are many performance

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issues all over the world in relational databases due to the use of the atomic and inappropriate style of programming. The book addresses especially to application developers who

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write atomically in relational databases, but also to students in IT universities who should be aware of the two alternate styles of development. A good developer should

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realize the difference between the two specific styles and should be able to change something in the way of writing code when switching to a relational database. The first part of

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the book is conceptual. The goal is to explain, describe and compare the two styles of development. The second part is highly practical. I described a series of practices, taken from two

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popular systems like Oracle and SQL Server. I imagined many business scenarios, I described them and I solved them in the two opposite approaches. I showed that, in most of the cases, a

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holistic solution is available as an alternative to an atomic one. This is also a book about performance. For a good performance inside a relational database, the first thing that should

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be done is to write correctly. And writing correctly means writing differently and specific, means writing holistic and set based. The first prerequisite for a good

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performance is the use of most suitable style of development. The style of development is a vague concept, but a critical one. We, as programmers, should all be aware of our

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styles and try to be dynamic and adopt the most suitable style according to our needs.

Improve the performance of relational databases with indexes designed for today's

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hardware Over the last few years, hardware and software have advanced beyond all recognition, so it's hardly surprising that relational database performance now receives

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much less attention.

Unfortunately, the reality is that the improved hardware hasn't kept pace with the ever-increasing quantity of data processed today.

Although disk packing

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densities have increased enormously, making storage costs extremely low and sequential read very fast, random reads are still painfully slow. Many of the old design

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**recommendations are therefore no longer valid-
the optimal point of indexing has come a long way. Consequently many of the old problems haven't actually gone away-they**

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have simply changed their appearance. This book provides an easy but effective approach to the design of indexes and tables. Using lots of examples and case studies,

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**the authors describe how
the DB2, Oracle, and SQL
Server optimizers
determine how to access
data, and how CPU and
response times for the
resulting access paths can**

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be quickly estimated. This enables comparisons to be made of the various designs, and helps you choose available choices for the most appropriate design. This book is

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**intended for anyone who
wants to understand the
issues of SQL performance
or how to design tables and
indexes effectively. With
this title, readers with many
years of experience of**

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relational systems will be able to better grasp the implications that have been brought into play by the introduction of new hardware.

Learn effective and scalable

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database design techniques in a SQL Server environment. Pro SQL Server 2008 Relational Database Design and Implementation covers everything from design

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**logic that business users
will understand, all the way
to the physical
implementation of the
design in a SQL Server
database. Grounded in best
practices and a solid**

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**understanding of the
underlying theory, authors
Louis Davidson, Kevin
Kline, Scott Klein, and Kurt
Windisch show how to 'get
it right' in SQL Server
database design and lay a**

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**solid groundwork for the
future use of valuable
business data. Solid
foundation in best practices
and relational theory
Maximize SQL Server
features to enhance**

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**security, performance,
scalability Thorough
treatment from conceptual
design to an effective,
physical implementation
NoSQL Starter is a great
resource for someone**

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**starting with NoSQL and an
indispensable guide for
technology decision
makers. It is assumed that
you have a background in
RDBMS modeling and SQL
and have had exposure to at**

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**least one of the
programming languages -
Java or JavaScript. Friendly,
practical tutorial with lots
of hints and tips from
several experienced Solr
users and developers.**

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**Web Database Applications
with PHP and MySQL
Designing Data-Intensive
Applications
The Complete Book
Java Database Best
Practices**

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**The Practical Guide to
Storing, Managing and
Analyzing Big and Small
Data**

**Monolith to Microservices
Six-Step Relational
Database Design**

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When it comes to choosing, using, and maintaining a database, understanding its internals is essential. But with so many distributed databases and tools available today, it ' s often difficult to understand what each one offers and how they differ. With this practical guide, Alex Petrov guides developers

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through the concepts behind modern database and storage engine internals. Throughout the book, you ' ll explore relevant material gleaned from numerous books, papers, blog posts, and the source code of several open source databases. These resources are listed at the end of parts one and

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two. You ' ll discover that the most significant distinctions among many modern databases reside in subsystems that determine how storage is organized and how data is distributed. This book examines:
Storage engines: Explore storage classification and taxonomy, and dive

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into B-Tree-based and immutable Log Structured storage engines, with differences and use-cases for each Storage building blocks: Learn how database files are organized to build efficient storage, using auxiliary data structures such as Page Cache, Buffer Pool and Write-Ahead Log Distributed

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systems: Learn step-by-step how nodes and processes connect and build complex communication patterns
Database clusters: Which consistency models are commonly used by modern databases and how distributed storage systems achieve consistency
The Big Ideas Behind Reliable,

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Scalable, and Maintainable Systems

A Hands-on Guide to Data

Manipulation in SQL

Pro SQL Server 2008 Relational

Database Design and Implementation

Physical Database Design

Database Development For Dummies