Getting Started With Orientdb English Edition

Emerging Technologies for Education
Beyond Databases, Architectures and Structures
Seven Databases in Seven Weeks
Getting Started with OrientDB
Mediterranean Cities and Island Communities
Handbook of Research on Big Data Storage and Visualization Techniques
Principles of Software Architecture Modernization
NoSQL Data Models
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Hadoop: The Definitive Guide
Reasoning Web. Reasoning and the Web in the Big Data Era

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Semantic Multimedia
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Introducing Data Science
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Learning Neo4j

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Emerging Technologies for Education Morgan Kaufmann
This book addresses the issue of smart and sustainable development in the Mediterranean (MED) region, a distinct part of the world, full of challenges and risks but also opportunities. Above all, the book focuses on smartening up small and medium-sized cities and insular

communities, taking into account their geographical peculiarities, the pattern of MED urban settlements and the abundance of island complexes in the MED Basin. Taking for granted that sustainability in the MED is the overarching policy goal that needs to be served, the book explores different aspects of smartness in support of this goal's achievement. In this respect, evidence from concrete smart developments adopted by forerunners in the MED region is collected and analyzed; coupled with experiences gathered from successful, non-MED, examples of smart efforts in European countries. More specifically, current research and empirical results from MED urban environments are discussed, as well as findings from or concerning other parts of the world, which are of relevance to the MED region. The book's primary goal is to enable policymakers, planners and decision-making bodies to recognize the challenges and options available; and make to more informed policy decisions towards smart, sustainable, inclusive and resilient urban and regional futures in the MED. *Beyond Databases, Architectures and Structures* Springer Think about your data intelligently and ask the right questions Key FeaturesMaster data cleaning techniques necessary to perform real-world data science and machine learning

tasksSpot common problems with dirty data and develop flexible solutions from first principlesTest and refine your newly acquired skills through detailed exercises at the end of each chapterBook Description Data cleaning is the all-important first step to successful data science, data analysis, and machine learning. If you work with any kind of data, this book is your go-to resource, arming you with the insights and heuristics experienced data scientists had to learn the hard way. In a light-hearted and engaging exploration of different tools, techniques, and datasets real and fictitious, Python veteran David Mertz teaches you the ins and outs of data preparation and the essential questions you should be asking of every piece of data you work with. Using a mixture of Python, R, and common command-line tools, Cleaning Data for Effective Data Science follows the data cleaning pipeline from start to end, focusing on helping you understand the principles underlying each step of the process. You'll look at data ingestion of a vast range of tabular, hierarchical, and other data formats, impute missing values, detect unreliable data and statistical anomalies, and generate synthetic features. The long-form exercises at the end of each chapter let you get hands-on with the skills you've acquired

along the way, also providing a valuable resource for academic courses. What you will learnIngest and work with common data formats like JSON, CSV, SQL and NoSQL databases, PDF, and binary serialized data structuresUnderstand how and why we use tools such as pandas, SciPy, scikit-learn, Tidyverse, and BashApply useful rules and heuristics for assessing data quality and detecting bias, like Benford's law and the 68-95-99.7 ruleIdentify and handle unreliable data and outliers, examining z-score and other statistical propertiesImpute sensible values into missing data and use sampling to fix imbalancesUse dimensionality reduction, quantization, one-hot encoding, and other feature engineering techniques to draw out patterns in your dataWork carefully with time series data, performing de-trending and interpolationWho this book is for This book is designed to benefit software developers, data scientists, aspiring data scientists, teachers, and students who work with data. If you want to improve your rigor in data hygiene or are looking for a refresher, this book is for you. Basic familiarity with statistics, general concepts in machine learning, knowledge of a programming language (Python or R), and some exposure to data science are helpful.

Seven Databases in

Seven Weeks Simon and Schuster
This volume contains the lecture notes of the 10th Reasoning Web Summer School 2014, held in Athens, Greece, in September 2014. In 2014, the lecture program of the Reasoning Web introduces students to recent advances in big data aspects of semantic web and linked data, and the fundamentals of reasoning techniques that can be used to tackle big data applications.
Getting Started with OrientDB BPB Publications
Complete reference guide to Redis Ê KEY FEATURESÊÊ _ Complete coverage of Redis Modules. _ Best practices, tips and tricks, and expert techniques to scale Redis. _ Troubleshooting solutions to perform real-time faster data processing for client applications. Ê DESCRIPTIONÊÊ This book begins with teaching you to set up your own Redis environment, followed by Redis data structures, their architecture, and use cases. You get to learn the details about Redis Modules such as RediSearch, RedisJSON, RedisTimeSeries, RedisAI, and RedisGraph with specific business use-case examples. This book makes you a Redis Expert by getting you hands-on with best practices on Redis and some tricks to scale Redis activities. WHAT YOU WILL LEARN _ RedisÕs advantages over the other NOSQL

databases. _ Explore Redis Enterprise and its real gameplay in enterprise applications. _ Learn Redis data structures through practically demonstrated use cases. _ Learn from Industry expert to setup the Redis in production environment. _ Understand how Redis enterprise enhances Redis OSS. Ê WHO THIS BOOK IS FORÊÊ This book is ideal for anyone who is interested in understanding the basic concepts of the Redis database. The book will help the IT professionals, Software developers, Technical leads, Architects. Readers should have a working knowledge of database designing, basic programming skills, and an understanding of the latest trends in cloud computing. Ê TABLE OF CONTENTS 1. Introduction to NoSQL World 2. NoSQL database types 3. Are NoSQL databases better than traditional databases? 4. History of Redis 5. Getting started with Redis 6. Setting up Redis 7. Redis Data Structures in details 8. Scaling Redis 9. Modules 10. Redis use cases 11. Redis as database service - enterprise solutions 12. What is new in Redis 6? 13. Appendix A (i) Using Redis-cli (ii) RedisInsight tool (iii) Community helps

Mediterranean Cities and Island Communities Simon and Schuster

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 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, 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, 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 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 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 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 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 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.

Handbook of Research on Big Data Storage and Visualization Techniques Springer Nature

"More and more people are using the query language SPARQL (pronounced 'sparkle') to pull data from a growing collection of public and private data. Whether this data is part of a semantic web project or an integration of two inventory databases on different platforms behind the same firewall, SPARQL is making it easier to access this data using both open source and commercial software. In the words of W3C Director and web inventor Tim Berners-Lee, 'Trying to use the Semantic Web without SPARQL is like trying to

use a relational database without SQL. SPARQL lets them query information from databases and other diverse sources in the wild, across the Web.'"--Resource description page.

Principles of Software Architecture Modernization CRC Press

"Seven Languages in Seven Weeks" presents a meaningful exploration of seven languages within a single book. Rather than serve as a complete reference or installation guide, the book hits what's essential and unique about each language.

NoSQL Data Models Pragmatic Bookshelf

This book is for developers who want an alternative way to store and process data within their applications. No previous graph database experience is required; however, some basic database knowledge will help you understand the concepts more easily.

Big Data Springer

Long path to better systems that last longer and make engineers and customers happier KEY FEATURES ● Guidance, trade-offs analysis, principles, and insights on understanding complex microservices and monoliths problems and solutions at scale. ● In-depth coverage of anti-patterns, allowing the reader to avoid pitfalls and understand how to handle architecture at scale better. ● Concepts and lessons learned through experience in

performing code and data migration at scale with complex architectures. Best usage of new technology using the right architecture principles.
DESCRIPTION This book is a comprehensive guide to designing scalable and maintainable software written by an expert. It covers the principles, patterns, anti-patterns, trade-offs, and concepts that software developers and architects need to understand to design software that is both scalable and maintainable. The book begins by introducing the concept of monoliths and discussing the challenges associated with scaling and maintaining them. It then covers several anti-patterns that can lead to these challenges, such as lack of isolation and internal shared libraries. The next section of the book focuses on the principles of good software design, such as loose coupling and encapsulation. It also covers several software architecture patterns that can be used to design scalable and maintainable monoliths, such as the layered architecture pattern and the microservices pattern. The final section of the book guides how to migrate monoliths to distributed systems. It also covers how to test and deploy distributed systems effectively.
WHAT YOU WILL LEARN
● Understand the challenges of monoliths and the

common anti-patterns that lead to them. ● Learn the principles of good software design, such as loose coupling and encapsulation. ● Discover software architecture patterns that can be used to design scalable and maintainable monoliths. ● Get guidance on how to migrate monoliths to distributed systems. ● Learn how to test and deploy distributed systems effectively. WHO THIS BOOK IS FOR This book is for software developers, architects, system architects, DevOps engineers, site reliability engineers, and anyone who wants to learn about the principles and practices of modernizing software architectures. The book is especially relevant for those who are working with legacy systems or want to design new systems that are scalable, resilient, and maintainable. TABLE OF CONTENTS 1. What's Wrong with Monoliths? 2. Anti-Patterns: Lack of Isolation 3. Anti-Patterns: Distributed Monoliths 4. Anti-Patterns: Internal Shared Libraries 5. Assessments 6. Principles of Proper Services 7. Proper Service Testing 8. Embracing New Technology 9. Code Migrations 10. Data Migrations 11. Epilogue

Seven Languages in Seven Weeks IGI Global

This two-volume set (CCIS 1137 and CCIS 1138) constitutes the proceedings of the Third International

Conference on Cyberspace Data and Intelligence, Cyber DI 2019, and the International Conference on Cyber-Living, Cyber-Syndrome, and Cyber-Health, CyberLife 2019, held under the umbrella of the 2019 Cyberspace Congress, held in Beijing, China, in December 2019. The 64 full papers presented together with 18 short papers were carefully reviewed and selected from 160 submissions. The papers are grouped in the following topics: cyber data, information and knowledge; cyber and cyber-enabled intelligence; communication and computing; cyber philosophy, cyberlogic and cyber science; and cyber health and smart healthcare.

Cleaning Data for Effective Data Science

Springer

This book constitutes the refereed proceedings of the 11th International Conference entitled Beyond Databases, Architectures and Structures, BDAS 2015, held in Ustroń, Poland, in May 2015. This book consists of 53 carefully revised selected papers that are assigned to 8 thematic groups: database architectures and performance; data integration, storage and data warehousing; ontologies and semantic web; artificial intelligence, data mining and knowledge discovery; image analysis and multimedia mining; spatial data analysis; database systems

development; application of database systems.

Learning SPARQL

"O'Reilly Media, Inc." Summary Grails in Action, Second Edition is a comprehensive introduction to Grails 2 focused on making you super-productive fast. In this totally revised new edition, you'll master Grails 2.3 core skills as you apply TDD techniques to developing a full-scale Twitter clone. Along the way you'll learn the latest single-page web app UI techniques, work with NoSQL backends, integrate with enterprise messaging, and implement a complete RESTful API for your services. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology It may be time for you to stop reconfiguring, rewriting, and recompiling your Java web apps. Grails, a Groovy-powered web framework, hides all that busy work so you can concentrate on what your applications do, not how they're built. In addition to its famously intuitive dev environment and seamless integration with Spring and Hibernate, the new Grails 2.3 adds improved REST support, better protection against attacks from the web, and better dependency resolution. About the Book Grails in Action, Second Edition is a comprehensive introduction to Grails 2. In this totally revised edition you'll master

Grails as you apply TDD techniques to a full-scale example (a Twitter clone). Along the way you'll learn single-page web app techniques, work with NoSQL back ends, integrate with enterprise messaging, implement a RESTful API ... and more. No Java or Groovy knowledge is required. Some web development and OOP experience is helpful. What's Inside Covers Grails 2.3 from the ground up Agile delivery and testing using Spock How to use and manage plugins Tips and tricks from the trenches About the Authors There's no substitute for experience: Glen Smith and Peter Ledbrook have been fixtures in the Grails community, contributing code, blogging, and speaking at conferences worldwide, since Grails 0.2. Table of Contents PART 1 INTRODUCING GRAILS Grails in a hurry The Groovy essentials PART 2 CORE GRAILS Modeling the domain 63 Creating the initial UI Retrieving the data you need Controlling application flow Services and data binding Developing tasty forms, views, and layouts PART 3 EVERYDAY GRAILS Building reliable applications Using plugins: just add water Protecting your application Exposing your app to other programs Single-page web applications (and other UI stuff) Understanding Spring and transactions PART 4 ADVANCED GRAILS Understanding events,

messaging, and scheduling NoSQL and Grails Beyond compile, test, run Grails in the cloud BONUS ONLINE CHAPTERS Advanced GORM kung fu Developing plugins

Spring Microservices Packt Publishing Ltd

With this practical book, architects, CTOs, and CIOs will learn a set of patterns for the practice of architecture, including analysis, documentation, and communication. Author Eben Hewitt shows you how to create holistic and thoughtful technology plans, communicate them clearly, lead people toward the vision, and become a great architect or Chief Architect. This book covers each key aspect of architecture comprehensively, including how to incorporate business architecture, information architecture, data architecture, application (software) architecture together to have the best chance for the system's success. Get a practical set of proven architecture practices focused on shipping great products using architecture Learn how architecture works effectively with development teams, management, and product management teams through the value chain Find updated special coverage on machine learning architecture Get usable templates to start incorporating into your teams immediately Incorporate business

architecture, information architecture, data architecture, and application (software) architecture together

Natural Language Processing in the Real World John Wiley & Sons

Natural Language Processing in the Real World is a practical guide for applying data science and machine learning to build Natural Language Processing (NLP) solutions. Where traditional, academic-taught NLP is often accompanied by a data source or dataset to aid solution building, this book is situated in the real world where there may not be an existing rich dataset. This book covers the basic concepts behind NLP and text processing and discusses the applications across 15 industry verticals. From data sources and extraction to transformation and modelling, and classic Machine Learning to Deep Learning and Transformers, several popular applications of NLP are discussed and implemented. This book provides a hands-on and holistic guide for anyone looking to build NLP solutions, from students of Computer Science to those involved in large-scale industrial projects.

Cloud Native Applications with Jakarta EE BPB Publications

This book constitutes the refereed conference proceedings of the 6th International Symposium on

Emerging Technologies for Education, SETE 2021, held in Zhuhai, China in November 2021. 35 full papers were accepted together with 8 short papers out of 58 submissions. The papers focus on the following subjects: Emerging Technologies for Education, Digital Technology, Creativity, and Education; Education Technology (Edtech) and ICT for Education; Education + AI; Adaptive Learning, Emotion and Behaviour Recognition and Understanding in Education; as well as papers from the International Symposium on User Modeling and Language Learning (UMLL2021) and the International Workshop on Educational Technology for Language Learning (ETLL 2021).

Advances in Intelligent Systems and Computing "O'Reilly Media, Inc."

If you are a professional or enthusiast who has a basic understanding of graphs or has basic knowledge of Neo4j operations, this is the book for you. Although it is targeted at an advanced user base, this book can be used by beginners as it touches upon the basics. So, if you are passionate about taming complex data with the help of graphs and building high performance applications, you will be able to get valuable insights from this book.

Expert Clouds and Applications Springer Nature

Master MongoDB - The

widely used modern database in a step-by-step, practical, and easy-to-understand approach covering all major topics KEY FEATURES ● In-depth practical demonstration of MongoDB concepts with numerous examples. ● Includes graphical illustrations and visual explanations for MongoDB commands and methods. ● Covers advanced topics such as MongoDB Compass, MongoDB Security, Backup and Restore, and Replication and Sharding. DESCRIPTION MongoDB Complete Guide book starts with the basics of MongoDB, what exactly is MongoDB, and how to use it practically. You will understand how MongoDB is different from the traditional RDBMS. Topics such as installation and configuration of the MongoDB server, MongoDB commands, MongoDB Shell methods, and data types in MongoDB are covered in detail. You will practice how to perform MongoDB CRUD operations, indexing, MongoDB query selectors, projection in MongoDB and projection operators as well as aggregation in a very detailed and step-by-step manner. You learn how to work with MongoDB Compass and some of the advanced MongoDB topics like managing and administering MongoDB, managing the MongoDB process, monitoring and diagnosing MongoDB, backup and restore, MongoDB security,

replication and sharding. WHAT YOU WILL LEARN ● Perform write operations, search documents, and define complex queries in MongoDB. ● Perform indexing, aggregation, and data replication. ● End-to-end MongoDB administration along with authentication and authorization. ● Running backups, restoring, and monitoring of MongoDB database enterprise-wide. WHO THIS BOOK IS FOR This book is designed for software developers and server administrators who want to quickly learn MongoDB basics and start applying the knowledge of MongoDB in their business systems. TABLE OF CONTENTS MongoDB Basics 1.Introduction to MongoDB 2. MongoDB Installation and Setup on Windows 3. MongoDB Installation and Setup on Linux (Ubuntu) 4. MongoDB Installation and Setup on macOS 5. Getting started with MongoDB 6. Storage Engines in MongoDB 7. Managing and Administering MongoDB 8. MongoDB Shell Methods 9. Data Types in MongoDB MongoDB Intermediate Level Topics 10. Introduction to MongoDB CRUD Operations 11. MongoDB Intermediate Concepts 12. Introduction to MongoDB Indexes 13. MongoDB Query Selectors 14. Projection in MongoDB and Projection Operators 15. Aggregation in MongoDB 16. MongoDB Data Manipulations Using MongoDB Compass MongoDB Advanced Level Topics

17. Managing and Administering MongoDB (Advanced Level) 18. Replication in MongoDB 19. Sharding in MongoDB *Kerberos* Springer Summary Node.js in Action, Second Edition is a thoroughly revised book based on the best-selling first edition. It starts at square one and guides you through all the features, techniques, and concepts you'll need to build production-quality Node applications. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology You already know JavaScript. The trick to mastering Node.js is learning how to build applications that fully exploit its powerful asynchronous event handling and non-blocking I/O features. The Node server radically simplifies event-driven real-time apps like chat, games, and live data analytics, and with its incredibly rich ecosystem of modules, tools, and libraries, it's hard to beat! About the Book Based on the bestselling first edition, Node.js in Action, Second Edition is a completely new book. Packed with practical examples, it teaches you how to create high-performance web servers using JavaScript and Node. You'll master key design concepts such as asynchronous programming, state management, and event-driven programming. And you'll learn to put

together MVC servers using Express and Connect, design web APIs, and set up the perfect production environment to build, lint, and test. What's Inside Mastering non-blocking I/O The Node event loop Testing and deploying Web application templating About the Reader Written for web developers with intermediate JavaScript skills. About the Authors The Second Edition author team includes Node masters Alex Young, Bradley Meck, Mike Cantelon, and Tim Oxley, along with original authors Marc Harter, T.J. Holowaychuk, and Nathan Rajlich. Table of contents PART 1 - WELCOME TO NODE Welcome to Node.js Node programming fundamentals What is a Node web application? PART 2 - WEB DEVELOPMENT WITH NODE Front-end build systems Server-side frameworks Connect and Express in depth Web application templating Storing application data Testing Node applications Deploying Node applications and maintaining uptime PART 3 - BEYOND WEB DEVELOPMENT Writing command-line applications Conquering the desktop with Electron

Cyberspace Data and Intelligence, and Cyber-Living, Syndrome, and Health

Packt Publishing Ltd

Ready to unlock the power of your data? With this comprehensive guide, you'll learn how to build and maintain reliable, scalable,

distributed systems with Apache Hadoop. This book is ideal for programmers looking to analyze datasets of any size, and for administrators who want to set up and run Hadoop clusters. You'll find illuminating case studies that demonstrate how Hadoop is used to solve specific problems. This third edition covers recent changes to Hadoop, including material on the new MapReduce API, as well as MapReduce 2 and its more flexible execution model (YARN). Store large datasets with the Hadoop Distributed File System (HDFS) Run distributed computations with MapReduce Use Hadoop's data and I/O building blocks for compression, data integrity, serialization (including Avro), and persistence Discover common pitfalls and advanced features for writing real-world MapReduce programs Design, build, and administer a dedicated Hadoop cluster—or run Hadoop in the cloud Load data from relational databases into HDFS, using Sqoop Perform large-scale data processing with the Pig query language Analyze datasets with Hive, Hadoop's data warehousing system Take advantage of HBase for structured and semi-structured data, and ZooKeeper for building distributed systems

Hadoop: The Definitive Guide

Packt Publishing Ltd

Unlock infinite possibilities: Java + NoSQL = Enterprise

excellence KEY FEATURES ● Gain expertise with the theory and practice of NoSQL databases. ● Master Java principles and code design for NoSQL incorporation. ● Learn to integrate NoSQL databases into robust enterprise architectures. DESCRIPTION Java Persistence with NoSQL is a comprehensive guide that offers a unique blend of theoretical knowledge and practical implementation, making it an invaluable resource for those seeking to excel in their roles. The book is divided into four parts, covering essential NoSQL concepts, Java principles, Jakarta EE integration, and the integration of NoSQL databases into enterprise architectures. Readers will explore NoSQL databases, comparing their strengths and use cases. They will then master Java coding principles and design patterns necessary for effective NoSQL integration. The book also discusses the latest Jakarta EE specifications, enhancing readers' understanding of Jakarta's role in data storage and retrieval. Finally, readers will learn to implement various NoSQL databases into enterprise-grade solutions, ensuring security, high availability, and fault tolerance. With hands-on exercises, real-world examples, and best practices, this book equips professionals with the skills and knowledge

needed to excel in building robust and scalable Java applications using NoSQL databases. WHAT YOU WILL LEARN ● Mastering NoSQL concepts and choosing the right database solutions. ● Integrating NoSQL databases into Java and Jakarta EE applications. ● Implementing Java design patterns for efficient data persistence. ● Leveraging Jakarta EE and MicroProfile for enhanced Java architecture. ● Designing enterprise-grade solutions with NoSQL databases for high availability. WHO THIS BOOK IS FOR This book is tailored for senior engineers, architects, Java developers, and NoSQL enthusiasts who want to deepen their understanding of NoSQL databases within the Java ecosystem. TABLE OF CONTENTS 1. Introduction to NoSQL Databases 2. NoSQL Databases: A Comparative Analysis 3. Running NoSQL in Production: Best Practices and Considerations 4. Streamlining Java Application Integration with Frameworks 5. Java Persistence Design Pattern 6. Java Architecture and Persistence Layer 7. Introduction to Jakarta EE and MicroProfile 8. Advanced Validation Techniques with Jakarta Bean Validation 9. Enhance Object-oriented Programming with CDI 10. Implementing Rest with JAX-RS 11. Introduction to Jakarta EE NoSQL and Data 12.

Redis Integration 13. Cassandra Integration 14. MongoDB Integration 15. Neo4J Integration 16. ArangoDB and Couchbase Integration 17. Final Considerations