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Learning Neo4j

Run blazingly fast queries on complex graph datasets with the power of the Neo4j graph database

Rik Van Bruggen

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Learning Neo4j Bruggen Rik Van

Sumit Gupta



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Learning Neo4j 3.x Jerome Baton, Rik Van Bruggen, 2017-10-20 Run blazingly fast queries on complex graph datasets with the power of the Neo4j graph database About This Book Get acquainted with graph database systems and apply them in real world use cases Use Cypher query language APOC and other Neo4j extensions to derive meaningful analysis from complex data sets A practical guide filled with ready to use examples on querying graph processing and visualizing information to build smarter spatial applications Who This Book Is For 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 What You Will Learn Understand the science of graph theory databases and its advantages over traditional databases Install Neo4j model data and learn the most common practices of traversing data Learn the Cypher query language and tailor made procedures to analyze and derive meaningful representations of data Improve graph techniques with the help of precise procedures in the APOC library Use Neo4j advanced extensions and plugins for performance optimization Understand how Neo4j's new security features and clustering architecture are used for large scale deployments In Detail Neo4j is a graph database that allows traversing huge amounts of data with ease This book aims at quickly getting you started with the popular graph database Neo4j Starting with a brief introduction to graph theory this book will show you the advantages of using graph databases along with data modeling techniques for graph databases You'll gain practical hands on experience with commonly used and lesser known features for updating graph store with Neo4j's Cypher query language Furthermore you'll also learn to create awesome procedures using APOC and extend Neo4j's functionality enabling integration algorithmic analysis and other advanced spatial operation capabilities on data Through the course of the book you will come across implementation examples on the latest updates in Neo4j such as in graph indexes scaling performance improvements visualization data refactoring techniques security enhancements and much more By the end of the book you'll have gained the skills to design and implement modern spatial applications from graphing data to unraveling business capabilities with the help of real world use cases Style and approach A step by step approach of adopting Neo4j the world's leading graph database This book includes a lot of background information helps you grasp the fundamental concepts behind this radical new way of dealing with connected data and will give you lots of examples of use cases and environments where a graph database would be a great fit

[Building Web Applications with Python and Neo4j](#) Sumit Gupta, 2015-07-16 Py2neo is a simple and pragmatic Python library that provides access to the popular graph database Neo4j via its RESTful web service interface This brings with it a heavily refactored core a cleaner API better performance

and some new idioms You will begin with licensing and installing Neo4j learning the fundamentals of Cypher as a graph query language and exploring Cypher optimizations You will discover how to integrate with various Python frameworks such as Flask and its extensions Py2neo Neomodel and Django Finally the deployment aspects of your Python based Neo4j applications in a production environment is also covered By sequentially working through the steps in each chapter you will quickly learn and master the various implementation details and integrations of Python and Neo4j helping you to develop your use cases more quickly

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Building RESTful Web Services with PHP 7 Haafiz Waheed-ud-din Ahmad,2017-09-11

Learn how to build RESTful API and web services in PHP 7 About This Book Leverage the Lumen framework to build RESTful API endpoints for your applications Understand how to increase efficiency and security of your web service Learn to apply the concepts by implementing the examples covered in the book Who This Book Is For This book is for PHP developers who wish to learn about the REST architecture to be able to build and consume REST APIs in their applications What You Will Learn Understand the REST API architecture and its benefits Write RESTful API web services in PHP 7 Address security related issues in a REST API Leverage the importance of automated testing and write tests for API endpoints Identify security flaws in our current API endpoints and tackle them effectively Observe the working of Lumen microframeworks and write RESTful web services in it In Detail REST is the most wide spread and effective standard to develop APIs for internet services With the way PHP and its eco system has modernized the way code is written by simplifying various operations it is useful to develop RESTful APIs with PHP 7 and modern tools This book explains in detail how to create your own RESTful API in PHP 7 that can be consumed by other users in your organization Starting with a brief introduction to the fundamentals of REST architecture and the new features in PHP 7 you will learn to implement basic RESTful API endpoints using vanilla PHP The book explains how to identify flaws in security and design and teach you how to tackle them You will learn about composer Lumen framework and how to make your RESTful API cleaner secure and efficient The book emphasizes on automated tests teaches about different testing types and give a brief introduction to microservices which is the natural way forward After reading this book you will have a clear understanding of the REST architecture and you can build a web service from scratch

Style and approach This book will get you started with REST architecture and will also teach you different methods to build web services from scratch

Redis 4.x Cookbook Pengcheng Huang,Zuofei Wang,2018-02-28 Leverage the power of Redis 4 x to develop optimize and administer your Redis solutions with ease Key Features Build deploy and administer high performance and scalable applications in Redis Covers a range of important tasks including development and administration of Redis A practical guide that takes your understanding of Redis to the next level Book Description Redis is considered the world s most popular key value store database Its versatility and the wide variety of use cases it enables have made it a popular choice of database for many enterprises Based on the latest version of Redis this book provides both step by step recipes and relevant the background information required to utilize its features to the fullest It covers everything from a basic understanding of Redis data types to advanced aspects of Redis high availability clustering administration and troubleshooting This book will be your great companion to master all aspects of Redis The book starts off by installing and configuring Redis for you to get started with ease Moving on all the data types and features of Redis are introduced in detail Next you will learn how to develop applications with Redis in Java Python and the Spring Boot web framework You will also learn replication tasks which will help you to troubleshoot replication issues Furthermore you will learn the steps that need to be undertaken to ensure high availability on your cluster and during production deployment Toward the end of the book

you will learn the topmost tasks that will help you to troubleshoot your ecosystem efficiently along with extending Redis by using different modules What you will learn Install and configure your Redis instance Explore various data types and commands in Redis Build client side applications as well as a Big Data framework with Redis Manage data replication and persistence in Redis Implement high availability and data sharding in Redis Extend Redis with Redis Module Benchmark debug fine tune and troubleshoot various issues in Redis Who this book is for This book is for database administrators developers and architects who want to tackle the common and not so common problems associated with the different development and administration related tasks in Redis A fundamental understanding of Redis is expected to get the best out of this book

Seven NoSQL Databases in a Week Xun (Brian) Wu, Sudarshan Kadambi, Devram Kandhare, Aaron Ploetz, 2018-03-29 A beginner's guide to get you up and running with Cassandra DynamoDB HBase InfluxDB MongoDB Neo4j and Redis Key Features Covers the basics of 7 NoSQL databases and how they are used in the enterprises Quick introduction to MongoDB DynamoDB Redis Cassandra Neo4j InfluxDB and HBase Includes effective techniques for database querying and management Book Description This is the golden age of open source NoSQL databases With enterprises having to work with large amounts of unstructured data and moving away from expensive monolithic architecture the adoption of NoSQL databases is rapidly increasing Being familiar with the popular NoSQL databases and knowing how to use them is a must for budding DBAs and developers This book introduces you to the different types of NoSQL databases and gets you started with seven of the most popular NoSQL databases used by enterprises today We start off with a brief overview of what NoSQL databases are followed by an explanation of why and when to use them The book then covers the seven most popular databases in each of these categories MongoDB Amazon DynamoDB Redis HBase Cassandra InfluxDB and Neo4j The book doesn't go into too much detail about each database but teaches you enough to get started with them By the end of this book you will have a thorough understanding of the different NoSQL databases and their functionalities empowering you to select and use the right database according to your needs What you will learn Understand how MongoDB provides high performance high availability and automatic scaling Interact with your Neo4j instances via database queries Python scripts and Java application code Get familiar with common querying and programming methods to interact with Redis Study the different types of problems Cassandra can solve Work with HBase components to support common operations such as creating tables and reading writing data Discover data models and work with CRUD operations using DynamoDB Discover what makes InfluxDB a great choice for working with time series data Who this book is for If you are a budding DBA or a developer who wants to get started with the fundamentals of NoSQL databases this book is for you Relational DBAs who want to get insights into the various offerings of popular NoSQL databases will also find this book to be very useful

Gephi Cookbook Devangana Khokhar, 2015-05-27 If you want to learn network analysis and visualization along with graph concepts from scratch then this book is for you This is ideal for those of you with little or no understanding of Gephi and this domain

but will also be beneficial for those interested in expanding their knowledge and experience

ElasticSearch Cookbook - Second Edition Alberto Paro, 2015-01-28 If you are a developer who implements ElasticSearch in your web applications and want to sharpen your understanding of the core elements and applications this is the book for you It is assumed that you've got working knowledge of JSON and if you want to extend ElasticSearch of Java and related technologies

Proceedings of the 2nd International Academic Conference on Blockchain, Information Technology and Smart Finance (ICBIS 2023) Jerome Yen, Mohammad Zoynul Abedin, Wan Azman Saini Bin Wan Ngah, 2023-07-25 This is an open access book With the rapid development of modern economy and Internet technology the traditional financial industry has to develop Internet finance to provide better services and meet the needs of the times It is against this background that the blockchain relying on its special advantages collective maintenance reliable databases and decentralization provides the reliability to solve the credit risk of Internet finance has an impact on institutions trust mechanisms risk control etc in the Internet finance industry and has derived more new application scenarios thus paving the way for the development of finance in the Internet era Applying blockchain technology to the financial field can promote data information sharing improve value transmission efficiency and enhance database security The financial market based on the decentralized system of blockchain technology can reduce the operating costs of financial institutions improve economic efficiency and solve problems such as information asymmetry The new financial business model of blockchain finance is conducive to improving the Internet credit reporting system preventing and controlling Internet financial risks and further realizing financial disintermediation At present in China's financial field blockchain technology has been applied and innovated in supply chain finance cross border payment trade finance asset securitization and other scenarios To promote the exchange and development of blockchain information technology and financial experts and scholars The 2nd International Academic Conference on Blockchain Information Technology and Smart Finance ICBIS 2023 will be held in Hangzhou from February 17 to 19 2023 This conference mainly focuses on the latest research on blockchain information technology and smart finance This conference brings together experts scholars researchers and relevant practitioners in this field from all over the world to share research results discuss hot issues and provide participants with cutting edge scientific and technological information so that you can timely understand the development trends of the industry and master the latest technologies broaden research horizons and promote academic progress

Learning Neo4j Rik Van Bruggen, 2014 Run blazingly fast queries on complex graph datasets with the power of the Neo4j graph database In Detail Learning Neo4j provides you with a step by step approach of adopting Neo4j the world's leading graph database This book includes a lot of background information helps you grasp the fundamental concepts behind this radical new way of dealing with connected data and will give you lots of examples of use cases and environments where a graph database would be a great fit Starting with a brief introduction to graph theory this book will show you the advantages of using graph databases Following on from that you will be introduced to Neo4j and you will be shown how to

install Neo4j on various operating systems You will then be shown how you can model and import your data into Neo4j This book has two use case examples that will show you how to model and implement a graph in Neo4j by analyzing a user case and analyze the impact a change has on a process or a system You will also gain an insight into graph visualization options for Neo4j and discover external sources where you can learn more about Neo4j What You Will Learn Background and specifications of graph databases Install Neo4j on a variety of different platforms locally and in the cloud Model data for a graph database such as Neo4j Import data into Neo4j Learn about sample use cases for Neo4j Discover the advantages of graph databases versus other database models Find out where you can find additional information on Neo4j Downloading the example code for this book You can download the example code files for all Packt books you have purchased from your account at <http://www.PacktPub.com> If you purchased this book elsewhere you can visit <http://www.PacktPub.com> support and register to have the files e mailed directly to you

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