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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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Neo4j High Performance Sonal Raj,2015-03-02 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

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 Neo4j Graph Data Modeling

Mahesh Lal,2015-07-27 Neo4j is a graph database that allows you to model your data as a graph and find solutions to complex real world problems that are difficult to solve using any other type of database This book is designed to help you understand the intricacies of modeling a graph for any domain The book starts with an example of a graph problem and then introduces you to modeling non graph problems using Neo4j Concepts such as the evolution of your database chains access control and recommendations are addressed along with examples and are modeled in a graph Throughout the book you will discover design choices and trade offs and understand how and when to use them By the end of the book you will be able to effectively use Neo4j to model your database for efficiency and flexibility **Hands-On Graph Analytics with Neo4j**

Estelle Scifo,2020-08-21 Discover how to use Neo4j to identify relationships within complex and large graph datasets using graph modeling graph algorithms and machine learning Key FeaturesGet up and running with graph analytics with the help of real world examplesExplore various use cases such as fraud detection graph based search and recommendation systemsGet to grips with the Graph Data Science library with the help of examples and use Neo4j in the cloud for effective application scalingBook Description Neo4j is a graph database that includes plugins to run complex graph algorithms The book starts with an introduction to the basics of graph analytics the Cypher query language and graph architecture components and helps you to understand why enterprises have started to adopt graph analytics within their organizations You ll find out how to implement Neo4j algorithms and techniques and explore various graph analytics methods to reveal complex relationships in your data You ll be able to implement graph analytics catering to different domains such as fraud detection graph based search recommendation systems social networking and data management You ll also learn how to store data in graph databases and extract valuable insights from it As you become well versed with the techniques you ll

discover graph machine learning in order to address simple to complex challenges using Neo4j You will also understand how to use graph data in a machine learning model in order to make predictions based on your data Finally you ll get to grips with structuring a web application for production using Neo4j By the end of this book you ll not only be able to harness the power of graphs to handle a broad range of problem areas but you ll also have learned how to use Neo4j efficiently to identify complex relationships in your data What you will learn Become well versed with Neo4j graph database building blocks nodes and relationships Discover how to create update and delete nodes and relationships using Cypher querying Use graphs to improve web search and recommendations Understand graph algorithms such as pathfinding spatial search centrality and community detection Find out different steps to integrate graphs in a normal machine learning pipeline Formulate a link prediction problem in the context of machine learning Implement graph embedding algorithms such as DeepWalk and use them in Neo4j graphs Who this book is for This book is for data analysts business analysts graph analysts and database developers looking to store and process graph data to reveal key data insights This book will also appeal to data scientists who want to build intelligent graph applications catering to different domains Some experience with Neo4j is required

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 *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

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