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Apache Hive Essentials How-to

Leverage your knowledge of SQL to easily write distributed data processing applications on Hadoop using Apache Hive

Darren Lee

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Instant Apache Hive Essentials How-to Darren Lee,2013 Filled with practical step by step instructions and clear explanations for the most important and useful tasks This book provides quick recipes for using Hive to read data in various formats efficiently querying this data and extending Hive with any custom functions you may need to insert your own logic into the data pipeline This book is written for data analysts and developers who want to use their current knowledge of SQL to be more productive with Hadoop It assumes that readers are comfortable writing SQL queries and are familiar with Hadoop at the level of the classic WordCount example

Apache Hive Essentials Dayong Du,2015-02-26 If you are a data analyst developer or simply someone who wants to use Hive to explore and analyze data in Hadoop this is the book for you Whether you are new to big data or an expert with this book you will be able to master both the basic and the advanced features of Hive Since Hive is an SQL like language some previous experience with the SQL language and databases is useful to have a better understanding of this book

Apache Hive Essentials Dayong Du,2018-06-30 This book takes you on a fantastic journey to discover the attributes of big data using Apache Hive Key Features Grasp the skills needed to write efficient Hive queries to analyze the Big Data Discover how Hive can coexist and work with other tools within the Hadoop ecosystem Uses practical example oriented scenarios to cover all the newly released features of Apache Hive 2 3 3 Book Description In this book we prepare you for your journey into big data by firstly introducing you to backgrounds in the big data domain alongwith the process of setting up and getting familiar with your Hive working environment Next the book guides you through discovering and transforming the values of big data with the help of examples It also hones your skills in using the Hive language in an efficient manner Toward the end the book focuses on advanced topics such as performance security and extensions in Hive which will guide you on exciting adventures on this worthwhile big data journey By the end of the book you will be familiar with Hive and able to work effeciently to find solutions to big data problems What you will learn Create and set up the Hive environment Discover how to use Hive s definition language to describe data Discover interesting data by joining and filtering datasets in Hive Transform data by using Hive sorting ordering and functions Aggregate and sample data in different ways Boost Hive query performance and enhance data security in Hive Customize Hive to your needs by using user defined functions and integrate it with other tools Who this book is for If you are a data analyst developer or simply someone who wants to quickly get started with Hive to explore and analyze Big Data in Hadoop this is the book for you Since Hive is an SQL like language some previous experience with SQL will be useful to get the most out of this book

Apache Iceberg: The Definitive Guide Tomer Shiran,Jason Hughes,Alex Merced,2024-05-02 Traditional data architecture patterns are severely limited To use these patterns you have to ETL data into each tool a cost prohibitive process for making warehouse features available to all of your data This lack of flexibility forces you to adjust your workflow to the tool your data is locked in which creates data silos and data drift This book shows you a better way Apache Iceberg

provides the capabilities performance scalability and savings that fulfill the promise of an open data lakehouse By following the lessons in this book you ll be able to achieve interactive batch machine learning and streaming analytics with this lakehouse Authors Tomer Shiran Jason Hughes and Alex Merced from Dremio guide you through the process With this book you ll learn The architecture of Apache Iceberg tables What happens under the hood when you perform operations on Iceberg tables How to further optimize Apache Iceberg tables for maximum performance How to use Apache Iceberg with popular data engines such as Apache Spark Apache Flink and Dremio Sonar How Apache Iceberg can be used in streaming and batch ingestion Discover why Apache Iceberg is a foundational technology for implementing an open data lakehouse

Apache Hive Essentials Dayong Du,2018 This book takes you on a fantastic journey to discover the attributes of big data using Apache Hive About This Book Grasp the skills needed to write efficient Hive queries to analyze the Big Data Discover how Hive can coexist and work with other tools within the Hadoop ecosystem Uses practical example oriented scenarios to cover all the newly released features of Apache Hive 2 3 3 Who This Book Is For If you are a data analyst developer or simply someone who wants to quickly get started with Hive to explore and analyze Big Data in Hadoop this is the book for you Since Hive is an SQL like language some previous experience with SQL will be useful to get the most out of this book What You Will Learn Create and set up the Hive environment Discover how to use Hive s definition language to describe data Discover interesting data by joining and filtering datasets in Hive Transform data by using Hive sorting ordering and functions Aggregate and sample data in different ways Boost Hive query performance and enhance data security in Hive Customize Hive to your needs by using user defined functions and integrate it with other tools In Detail In this book we prepare you for your journey into big data by firstly introducing you to backgrounds in the big data domain alongwith the process of setting up and getting familiar with your Hive working environment Next the book guides you through discovering and transforming the values of big data with the help of examples It also hones your skills in using the Hive language in an efficient manner Toward the end the book focuses on advanced topics such as performance security and extensions in Hive which will guide you on exciting adventures on this worthwhile big data journey By the end of the book you will be familiar with Hive and able to work effeciently to find solutions to big data problems Style and approach This book takes on a practical approach which will get you familiarized with Apache Hive and how to use it to efficiently to find solutions to your big data problems This book covers crucial topics like performance and data security in order to help you make the most of the Hive working environment 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 ma Big Data Analytics Frank J. Ohlhorst,2012-11-15 Unique insights to implement big data analytics and reap big returns to your bottom line Focusing on the business and financial value of big data analytics respected technology journalist Frank J Ohlhorst shares his insights on the newly emerging field of

big data analytics in Big Data Analytics This breakthrough book demonstrates the importance of analytics defines the processes highlights the tangible and intangible values and discusses how you can turn a business liability into actionable material that can be used to redefine markets improve profits and identify new business opportunities Reveals big data analytics as the next wave for businesses looking for competitive advantage Takes an in depth look at the financial value of big data analytics Offers tools and best practices for working with big data Once the domain of large on line retailers such as eBay and Amazon big data is now accessible by businesses of all sizes and across industries From how to mine the data your company collects to the data that is available on the outside Big Data Analytics shows how you can leverage big data into a key component in your business s growth strategy

[Kafka Streams - Real-time Stream Processing](#) Prashant Kumar Pandey,2019-03-26 The book Kafka Streams Real time Stream Processing helps you understand the stream processing in general and apply that skill to Kafka streams programming This book is focusing mainly on the new generation of the Kafka Streams library available in the Apache Kafka 2 x The primary focus of this book is on Kafka Streams However the book also touches on the other Apache Kafka capabilities and concepts that are necessary to grasp the Kafka Streams programming Who should read this book Kafka Streams Real time Stream Processing is written for software engineers willing to develop a stream processing application using Kafka Streams library I am also writing this book for data architects and data engineers who are responsible for designing and building the organization s data centric infrastructure Another group of people is the managers and architects who do not directly work with Kafka implementation but they work with the people who implement Kafka Streams at the ground level What should you already know This book assumes that the reader is familiar with the basics of Java programming language The source code and examples in this book are using Java 8 and I will be using Java 8 lambda syntax so experience with lambda will be helpful Kafka Streams is a library that runs on Kafka Having a good fundamental knowledge of Kafka is essential to get the most out of Kafka Streams I will touch base on the mandatory Kafka concepts for those who are new to Kafka The book also assumes that you have some familiarity and experience in running and working on the Linux operating system

Cloud-Native Financial Systems: From Legacy to Real-Time Intelligence 2025
AUTHOR-1: Vamsi Krishna Koganti, AUTHOR-2: Dr.Gauri Shanker Kushwaha, PREFACE Cloud Native Financial Systems From Legacy to Real Time Intelligence presents a comprehensive roadmap for transforming traditional financial infrastructures into agile resilient and intelligent systems using cloud native principles As the financial industry undergoes unprecedented digital disruption institutions are compelled to modernize core systems embrace real time processing and meet the growing demands for security interoperability and innovation This book serves as a strategic and technical guide for IT leaders cloud architects developers compliance officers and financial technology professionals driving this transformation The financial sector faces a dual challenge retaining trust through reliability and compliance while accelerating the delivery of new intelligent products in an increasingly competitive digital ecosystem Traditional monolithic architectures legacy batch

processing systems and siloed databases no longer meet the expectations of real time insights 24 7 accessibility and scalable innovation Cloud native technologies comprising containerization microservices serverless computing API first design DevSecOps and AI ML offer the foundation to not only re architect aging platforms but also reimagine financial services for the future This book is structured to follow the logical arc of digital transformation Chapter 1 sets the stage with an introduction to the need and impact of cloud native adoption in finance Chapter 2 explores the constraints and opportunities within legacy systems Chapter 3 details cloud architecture principles tailored to financial workloads Chapter 4 and Chapter 5 dive into the technologies of containerization and real time data processing Chapter 6 emphasizes API first design while Chapter 7 tackles critical concerns around security compliance and governance In Chapter 8 we explore the power of cloud native data lakes in extracting financial intelligence Chapter 9 explains DevOps and CI CD strategies within highly regulated environments Chapter 10 introduces intelligent automation through AI ML and finally Chapter 11 focuses on business continuity resilience and observability as foundational pillars of trust and uptime Whether you re modernizing a legacy banking core building fintech platforms from scratch or engineering intelligent analytics pipelines this book will help you understand not only what needs to change but how to design implement and scale cloud native systems that are compliant scalable and future ready Authors **Intelligent Analytics for Industry 4.0 Applications** Avinash Chandra

Pandey,Abhishek Verma,Vijaypal Singh Rathor,Munesh Singh,Ashutosh Kumar Singh,2023-06-06 The advancements in intelligent decision making techniques have elevated the efficiency of manufacturing industries and led to the start of the Industry 4 0 era Industry 4 0 is revolutionizing the way companies manufacture improve and distribute their products Manufacturers are integrating new technologies including the Internet of Things IoT cloud computing and analytics and artificial intelligence and machine learning into their production facilities throughout their operations In the past few years intelligent analytics has emerged as a solution that examines both historical and real time data to uncover performance insights Because the amount of data that needs analysis is growing daily advanced technologies are necessary to collect arrange and analyze incoming data This approach enables businesses to detect valuable connections and trends and make decisions that boost overall performance In Industry 4 0 intelligent analytics has a broader scope in terms of descriptive predictive and prescriptive subdomains To this end the book will aim to review and highlight the challenges faced by intelligent analytics in Industry 4 0 and present the recent developments done to address those challenges *Apache Hive Third Edition* Gerardus Blokdyk,2018-08-16 Can we add value to the current Apache Hive decision making process largely qualitative by incorporating uncertainty modeling more quantitative Apache Hive in management Strategic planning How will the Apache Hive team and the organization measure complete success of Apache Hive Will Apache Hive deliverables need to be tested and if so by whom Who will be responsible for deciding whether Apache Hive goes ahead or not after the initial investigations This premium Apache Hive self assessment will make you the credible Apache Hive domain auditor by

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Apache Hive Cookbook Hanish Bansal,Saurabh Chauhan,Shrey Mehrotra,2016-04-29 Easy hands on recipes to help you understand Hive and its integration with frameworks that are used widely in today s big data world About This Book Grasp a complete reference of different Hive topics Get to know the latest recipes in development in Hive including CRUD operations Understand Hive internals and integration of Hive with different frameworks used in today s world Who This Book Is For The book is intended for those who want to start in Hive or who have basic understanding of Hive framework Prior knowledge of basic SQL command is also required What You Will Learn Learn different features and offering on the latest Hive Understand the working and structure of the Hive internals Get an insight on the latest development in Hive framework Grasp the concepts of Hive Data Model Master the key concepts like Partition Buckets and Statistics Know how to integrate Hive with other frameworks such as Spark Accumulo etc In Detail Hive was developed by Facebook and later open sourced in Apache community Hive provides SQL like interface to run queries on Big Data frameworks Hive provides SQL like syntax also called as HiveQL that includes all SQL capabilities like analytical functions which are the need of the hour in today s Big Data world This book provides you easy installation steps with different types of metastores supported by Hive This book has simple and

easy to learn recipes for configuring Hive clients and services You would also learn different Hive optimizations including Partitions and Bucketing The book also covers the source code explanation of latest Hive version Hive Query Language is being used by other frameworks including spark Towards the end you will cover integration of Hive with these frameworks Style and approach Starting with the basics and covering the core concepts with the practical usage this book is a complete guide to learn and explore Hive offerings

Learn Hive in 1 Day Krishna Rungta,2017-06-28 Apache Hive is the new member in database family that works within the Hadoop ecosystem It provides all great features like data summarization ad hoc query and analysis of large datasets If you are not a good programmer then this edition will teach you how to use hive queries without writing complex codes Most users face the problem of not getting a dedicated course on Hive The goal of this e book is to cater everything about Hive and only Hive with minimum jargons The notes lessons and hands on examples in this small e book are simplified and tactfully presented to solve all your Hive queries Instead of writing long code for MapReduce or Java the e book shows tips on writing the same program with a minimum code snippet Beginners as well as peers will thoroughly enjoy this book They will discover and learn more hive patterns for data processing and data integrations Unlike other e book where they skip basic detail thinking users having prior subject knowledge This edition has given complete attention to each and every small aspect of the hive like how to set up and configure Hive in your environment This e book is also helpful for those who just want to explore Hive and don t want to spend big bucks for short courses You will quickly learn apply and share your Hive knowledge with this e book

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Apache Hive Query Language in 2 Days Pak L. Kwan,2016-12-11 Pak is an enterprise architect at day and college professor at night As a long term educator he has developed a Jump Start in 2 Days method to teach himself and his students to learn any new technologies and concepts in 2 Days In this jump start guide Pak applies the method in this Jump Start in 2 Days serial After this jump start guide you will be able to master Apache Hive Query Language You will create hive table included hive internal and external tables load data into tables You can make quite complex queries involved several tables with joins

Programming Hive Edward Capriolo,Dean Wampler,Jason Rutherglen,2012-09-26 Need to move a relational database application to Hadoop This

comprehensive guide introduces you to Apache Hive Hadoop s data warehouse infrastructure You ll quickly learn how to use Hive s SQL dialect HiveQL to summarize query and analyze large datasets stored in Hadoop s distributed filesystem This example driven guide shows you how to set up and configure Hive in your environment provides a detailed overview of Hadoop and MapReduce and demonstrates how Hive works within the Hadoop ecosystem You ll also find real world case studies that describe how companies have used Hive to solve unique problems involving petabytes of data Use Hive to create alter and drop databases tables views functions and indexes Customize data formats and storage options from files to external databases Load and extract data from tables and use queries grouping filtering joining and other conventional query methods Gain best practices for creating user defined functions UDFs Learn Hive patterns you should use and anti patterns you should avoid Integrate Hive with other data processing programs Use storage handlers for NoSQL databases and other datastores Learn the pros and cons of running Hive on Amazon s Elastic MapReduce

Programming Hive Edward Capriolo. Dean Wampler. Jason Rutherglen,2012

APACHE HIVE HANDBK - EVERYTHIN Ashley Conway,2016-11-20

In business art and life creating on a world class level demands bold action and leaps of faith in the face of great uncertainty But that uncertainty can lead to fear anxiety paralysis and destruction It can gut creativity and stifle innovation It can keep you from taking the risks necessary to do great work and craft a deeply rewarding life And it can bring companies that rely on innovation grinding to a halt That is unless you know how to use it to your advantage Conway draws on leading edge technology best practices and awareness focusing techniques in a fresh practical nondogmatic way Their approach enables creativity and productivity on an entirely different level and can turn the once tortuous Apache Hive journey into a more enjoyable quest PLUS INCLUDED with your purchase are real life document resources this kit is available for instant download giving you the tools to navigate and deliver on any Apache Hive goal

Hadoop in 24 Hours, Sams Teach Yourself Jeffrey Aven,2017-04-07 Apache Hadoop is the technology at the heart of the Big Data revolution and Hadoop skills are in enormous demand Now in just 24 lessons of one hour or less you can learn all the skills and techniques you ll need to deploy each key component of a Hadoop platform in your local environment or in the cloud building a fully functional Hadoop cluster and using it with real programs and datasets Each short easy lesson builds on all that s come before helping you master all of Hadoop s essentials and extend it to meet your unique challenges Apache Hadoop in 24 Hours Sams Teach Yourself covers all this and much more Understanding Hadoop and the Hadoop Distributed File System HDFS Importing data into Hadoop and process it there Mastering basic MapReduce Java programming and using advanced MapReduce API concepts Making the most of Apache Pig and Apache Hive Implementing and administering YARN Taking advantage of the full Hadoop ecosystem Managing Hadoop clusters with Apache Ambari Working with the Hadoop User Environment HUE Scaling securing and troubleshooting Hadoop environments Integrating Hadoop into the enterprise Deploying Hadoop in the cloud Getting started with Apache Spark Step by step instructions walk you through common questions issues and tasks Q

and As Quizzes and Exercises build and test your knowledge Did You Know tips offer insider advice and shortcuts and Watch Out alerts help you avoid pitfalls By the time you re finished you ll be comfortable using Apache Hadoop to solve a wide spectrum of Big Data problems

Hadoop Real-World Solutions Cookbook Tanmay Deshpande,2016-03-31 Over 90 hands on recipes to help you learn and master the intricacies of Apache Hadoop 2 X YARN Hive Pig Oozie Flume Sqoop Apache Spark and Mahout About This Book Implement outstanding Machine Learning use cases on your own analytics models and processes Solutions to common problems when working with the Hadoop ecosystem Step by step implementation of end to end big data use cases Who This Book Is For Readers who have a basic knowledge of big data systems and want to advance their knowledge with hands on recipes What You Will Learn Installing and maintaining Hadoop 2 X cluster and its ecosystem Write advanced Map Reduce programs and understand design patterns Advanced Data Analysis using the Hive Pig and Map Reduce programs Import and export data from various sources using Sqoop and Flume Data storage in various file formats such as Text Sequential Parquet ORC and RC Files Machine learning principles with libraries such as Mahout Batch and Stream data processing using Apache Spark In Detail Big data is the current requirement Most organizations produce huge amount of data every day With the arrival of Hadoop like tools it has become easier for everyone to solve big data problems with great efficiency and at minimal cost Grasping Machine Learning techniques will help you greatly in building predictive models and using this data to make the right decisions for your organization Hadoop Real World Solutions Cookbook gives readers insights into learning and mastering big data via recipes The book not only clarifies most big data tools in the market but also provides best practices for using them The book provides recipes that are based on the latest versions of Apache Hadoop 2 X YARN Hive Pig Sqoop Flume Apache Spark Mahout and many more such ecosystem tools This real world solution cookbook is packed with handy recipes you can apply to your own everyday issues Each chapter provides in depth recipes that can be referenced easily This book provides detailed practices on the latest technologies such as YARN and Apache Spark Readers will be able to consider themselves as big data experts on completion of this book This guide is an invaluable tutorial if you are planning to implement a big data warehouse for your business Style and approach An easy to follow guide that walks you through world of big data Each tool in the Hadoop ecosystem is explained in detail and the recipes are placed in such a manner that readers can implement them sequentially Plenty of reference links are provided for advanced reading

Hadoop Real-World Solutions Cookbook Second Edition Tanmay Deshpande,2016-03-29 Over 90 hands on recipes to help you learn and master the intricacies of Apache Hadoop 2 X YARN Hive Pig Oozie Flume Sqoop Apache Spark and Mahout About This Book Implement outstanding Machine Learning use cases on your own analytics models and processes Solutions to common problems when working with the Hadoop ecosystem Step by step implementation of end to end big data use cases Who This Book Is For Readers who have a basic knowledge of big data systems and want to advance their knowledge with hands on recipes What You Will Learn Installing and maintaining Hadoop 2 X cluster and its ecosystem

Write advanced Map Reduce programs and understand design patterns Advanced Data Analysis using the Hive Pig and Map Reduce programs Import and export data from various sources using Sqoop and Flume Data storage in various file formats such as Text Sequential Parquet ORC and RC Files Machine learning principles with libraries such as Mahout Batch and Stream data processing using Apache Spark In Detail Big data is the current requirement Most organizations produce huge amount of data every day With the arrival of Hadoop like tools it has become easier for everyone to solve big data problems with great efficiency and at minimal cost Grasping Machine Learning techniques will help you greatly in building predictive models and using this data to make the right decisions for your organization Hadoop Real World Solutions Cookbook gives readers insights into learning and mastering big data via recipes The book not only clarifies most big data tools in the market but also provides best practices for using them The book provides recipes that are based on the latest versions of Apache Hadoop 2 X YARN Hive Pig Sqoop Flume Apache Spark Mahout and many more such ecosystem tools This real world solution cookbook is packed with handy recipes you can apply to your own everyday issues Each chapter provides in depth recipes that can be referenced easily This book provides detailed practices on the latest technologies such as YARN and Apache Spark Readers will be able to consider themselves as big data experts on completion of this book This guide is an invaluable tutorial if you are planning to implement a big data warehouse for your business Style and approach An easy to follow guide that walks you through world of big data Each tool in the Hadoop ecosystem is explained in detail and the recipes are placed in such a manner that readers can implement them sequentially Plenty of reference links are provided for advanced reading

Introduction to Apache Hive Tom Hanlon, 2015 In this Introduction to Apache Hive training course expert author Tom Hanlon will teach you how to create and query large datasets in Hadoop This course is designed for the absolute beginner meaning no experience with SQL or Hadoop is required You will start by learning how to connect to Hive then jump into learning how to create tables and load data From there Tom will teach you how to manipulate tables with HiveQL including how to insert data into a Hive table using HiveQL This video tutorial also covers how to create views and partitions and transform data with custom scripts Finally you will learn about Hive execution engines such as Map Reduce Tez and Spark Once you have completed this computer based training course you will have learned how to create tables and load data in Hive execute SQL queries use user defined functions and transform scripts Resource description page

Unveiling the Magic of Words: A Report on "**Instant Apache Hive Essentials How To**"

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