

# Apache Hive

## Essentials

Second Edition

Essential techniques to help you process, and get unique insights from, big data

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By Dayong Du

# Apache Hive Essentials

**Dayong Du**



## **Apache Hive Essentials:**

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 efficiently 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 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 **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, 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 efficiently 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 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

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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 offerings 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

**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 revealing just what you need to know to be fluent and ready for any Apache Hive challenge How do I reduce the effort in the Apache Hive work to be done to get problems solved How can I ensure that plans of action include every Apache Hive task and that every Apache Hive outcome is in place How will I save time investigating strategic and tactical options and ensuring Apache Hive costs are low How can I deliver tailored Apache Hive advice instantly with structured going forward plans There s no better guide through these mind expanding questions than acclaimed best selling author Gerard Blokdyk Blokdyk ensures all Apache Hive essentials are covered from every angle the Apache Hive self assessment shows succinctly and clearly that what needs to be clarified to organize the required activities and processes so that Apache Hive outcomes are achieved Contains extensive criteria grounded in past and current successful projects and activities by experienced Apache Hive practitioners Their mastery combined with the easy elegance of the self assessment provides its superior value to you in knowing how to ensure the outcome of any efforts in Apache Hive are maximized with professional results Your purchase includes access details to the Apache Hive self assessment dashboard download which gives you your dynamically prioritized projects ready tool and shows you exactly what to do next Your exclusive instant access details can be found in your book You will receive the following contents with New and Updated specific criteria The latest quick edition of the book in PDF The latest complete edition of the book in PDF which criteria correspond to the criteria in The Self Assessment Excel Dashboard and Example pre filled Self Assessment Excel Dashboard to get familiar with results generation plus an extra special resource that helps you with project managing INCLUDES LIFETIME SELF ASSESSMENT UPDATES Every self assessment comes with Lifetime Updates and Lifetime Free Updated Books Lifetime Updates is an industry first feature which allows you to receive verified self assessment updates ensuring you always have the most accurate information at your fingertips

**Essentials of Nursing Informatics, 6th Edition** Virginia K. Saba,Kathleen A. McCormick,2015-02-22 Publisher s Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product Discover how technology can improve patient care and enhance every aspect of a nurse s job performance education and

career A Doody's Core Title for 2017 Written by leaders in nursing informatics this comprehensive up to date text helps you understand how informatics can enhance every aspect of the nursing profession This edition of Essentials of Nursing Informatics is highlighted by an outstanding team of international contributors and content that reflects the very latest concepts technologies policies and required skills Numerous case studies take the book beyond theory and add real world relevance to the material Essentials of Nursing Informatics is logically divided into ten sections edited by leading nurse informaticists Nursing Informatics Technologies Jacqueline Ann Moss System Life Cycle Virginia K Saba Informatics Theory Standards Foundations of Nursing Informatics Virginia K Saba Nursing Informatics Leadership Kathleen Smith Advanced Nursing Informatics in Practice Gail E Latimer Nursing Informatics Complex Applications Kathleen A McCormick Educational Applications Diane J Skiba Research Applications Virginia K Saba Big Data Initiatives Kathleen A McCormick International Perspectives Susan K Newbold Essentials of Nursing Informatics is the best single resource for learning how technology can make the nursing experience as rewarding and successful as possible New Feature The 6th Edition introduces an online faculty resource to supplement classroom teaching offering instructors PowerPoints with concise chapter outlines learning objectives key words and explanatory illustrations and tables To request Instructor PowerPoint slides Visit [www.EssentialsofNursingInformatics.com](http://www.EssentialsofNursingInformatics.com) and under the Downloads and Resources tab click Request PowerPoint to access the PowerPoint request form Also for the first time a companion study guide for the 6th Edition is available separately from McGraw Hill Essentials of Nursing Informatics Study Guide ISBN 978 007 184 5892 edited by Julianne Brixey Jack Brixey Virginia K Saba and Kathleen A McCormick presenting teaching modules for all major chapters with content outlines teaching tips class preparation ideas review questions answer explanations and online PowerPoint slides to aid understanding and retention of all major concepts covered in Essentials of Nursing Informatics 6th Edition

**Essentials of Nursing Informatics Study Guide** Juliana J. Brixey, Jack E. Brixey, Virginia K. Saba, Kathleen A. McCormick, 2015-09-05

Introducing the most complete compact guide to teaching and learning nursing informatics If you're looking for a clear streamlined review of nursing informatics fundamentals Essentials of Nursing Informatics Study Guide is the go to reference Drawn from the newly revised 6th Edition of Saba and McCormick's bestselling textbook Essentials of Nursing Informatics this indispensable study guide helps instructors sharpen their classroom teaching skills while offering students an effective self study and review tool both in and out of the classroom Each chapter features a concise easy to follow format that solidifies students understanding of the latest nursing informatics concepts technologies policies and skills For the nurse educator the study guide includes teaching tips class preparation ideas learning objectives review questions and answer explanations all designed to supplement the authoritative content of the core text Also included is an online faculty resource to supplement classroom teaching offering instructors PowerPoints with concise chapter outlines learning objectives key words and explanatory illustrations and tables To request To request Instructor PowerPoint slides Visit [www.EssentialsofNursingInformatics.com](http://www.EssentialsofNursingInformatics.com)

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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

**Apache Hive Handbook** Robert Johnson, 2025-02-24 Apache Hive Handbook Query Analyze and Optimize Big Data is an authoritative resource that unlocks the potential of Apache Hive for data scientists engineers and analysts alike As data continues to expand exponentially understanding how to effectively manage and analyze this information becomes crucial This book introduces Apache Hive's capabilities meticulously guiding readers from establishing their environment to mastering complex queries with HiveQL With clear explanations and practical examples the handbook serves as both a foundational text for beginners and a comprehensive reference for seasoned data professionals Delving into advanced topics the book offers insights into optimizing Hive queries to enhance performance and efficiency Readers will discover strategies for bucketing partitioning and indexing that will transform how they approach data management Furthermore the integration of Hive with other cutting edge big data technologies expands its applicability from Apache Spark and HBase to real time stream processing with Kafka These integrations empower readers to construct versatile powerful analytics frameworks tailored to the demands of modern enterprises The handbook doesn't just stop at the present it ventures into future trends and advanced topics preparing readers for the evolving landscape of data analytics Whether it's embracing cloud based Hive deployments or leveraging machine learning within Hive ecosystems this book offers a roadmap for professionals looking to stay ahead of technological developments With Apache Hive Handbook you gain the expertise needed to harness the vast opportunities within big data equipping you to make informed impactful decisions in any data driven domain

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 series 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

Century Path, 1905 **American Bee Journal**, 1922 Includes summarized reports of many bee keeper associations **Frank Leslie's Illustrated Newspaper**, 1906 *The Argonaut*, 1920 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 **School & Society** ,1936 **Practical Hive** Scott Shaw,Andreas François Vermeulen,Ankur Gupta,David Kjerrumgaard,2016-08-27 Dive into the world of SQL on Hadoop and get the most out of your Hive data warehouses This book is your go to resource for using Hive authors Scott Shaw Ankur Gupta David Kjerrumgaard and Andreas Francois Vermeulen take you through learning HiveQL the SQL like language specific to Hive to analyze export and massage the data stored across your Hadoop environment From deploying Hive on your hardware or virtual machine and setting up its initial configuration to learning how Hive interacts with Hadoop MapReduce Tez and other big data technologies Practical Hive gives you a detailed treatment of the software In addition this book discusses the value of open source software Hive performance tuning and how to leverage semi structured and unstructured data What You Will Learn Install and configure Hive for new and existing datasets Perform DDL operations Execute efficient DML operations Use tables partitions buckets and user defined functions Discover performance tuning tips and Hive best practices Who This Book Is For Developers companies and professionals who deal with large amounts of data and could use software that can efficiently manage large volumes of input It is assumed that readers have the ability to work with SQL Hadoop Essentials Shiva Achari,2015-04-29 If you are a system or application developer interested in learning how to solve practical problems using the Hadoop framework then this book is ideal for you This book is also meant for Hadoop professionals who want to find solutions to the different challenges they come across in their Hadoop projects

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## Apache Hive Essentials Introduction

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