

## Programming Hive

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Programming Hive. by. Released September 2012. Publisher (s): O'Reilly Media, Inc. ISBN: 9781449319335. Explore a preview version of Programming Hive right now. O'Reilly members get unlimited access to live online training experiences, plus books, videos, and digital content from 200+ publishers.

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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

[Programming Hive: Data Warehouse and Query Language for ...](#)

Hive is developed on top of Hadoop. It is a data warehouse framework for querying and analysis of data that is stored in HDFS. Hive is an open source-software that lets programmers analyze large data sets on Hadoop. The size of data sets being collected and analyzed in the industry for business intelligence is growing and in a way, it is making traditional data warehousing solutions more expensive.

[Hive Tutorial for Beginners: Learn in 3 Days](#)

Characteristics of Hive: Databases and tables are built before loading the data. Hive as data warehouse is built to manage and query only structured data which is residing under tables. At the time of handling structured data, MapReduce lacks optimization and usability function such as UDFs whereas ...

[Apache Hive—GeeksforGeeks](#)

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 y

[Programming Hive by Edward Capriolo—Goodreads](#)

Hive is a data warehouse infrastructure tool to process structured data in Hadoop. It resides on top of Hadoop to summarize Big Data, and makes querying and analyzing easy. This is a brief tutorial that provides an introduction on how to use Apache Hive HiveQL with Hadoop Distributed File System.

[Hive Tutorial—Tutorialspoint](#)

Programming Hive introduces Hive, an essential tool in the Hadoop ecosystem that provides an SQL (Structured Query Language) dialect for querying data stored in the Hadoop Distributed Filesystem (HDFS), other filesystems that integrate with Hadoop, such as MapR-FS and Amazon's S3 and databases like HBase (the Hadoop database) and Cassandra.

[Programming Hive—Góc IT](#)

Apache Hive is an open source project run by volunteers at the Apache Software Foundation. Previously it was a subproject of Apache® Hadoop®, but has now graduated to become a top-level project of its own. We encourage you to learn about the project and contribute your expertise. Give us feedback or submit bug reports: What can we do better?

[Apache Hive™](#)

Major components of the Hive architecture are: Metastore: Stores metadata for each of the tables such as their schema and location. It also includes the partition... Driver: Acts like a controller which receives the HiveQL statements. It starts the execution of the statement by... Compiler: Performs ...

~~Apache Hive - Wikipedia~~

PROGRAMMING HIVE This is the example code that accompanies Programming Hive by Edward Capriolo, Dean Wampler and Jason Rutherglen (9781449319335). Click the Download Zip button to the right to download example code. Visit the catalog page here.

~~GitHub - oreillymedia/programming\_hive~~

Hive makes life much easier for developers who work with stored and managed data in Hadoop clusters, such as data warehouses. With this example-driven guide, you'll learn how to use the Hive infrastructure to provide data summarization, query, and analysis - particularly with HiveQL, the query language dialect of SQL.

~~Programming Hive (PDF)~~

Hive is a killer app, in our opinion, for data warehouse teams migrating to Hadoop, because it gives them a familiar SQL language that hides the complexity of MR programming.

~~Hive: SQL for Hadoop - GitHub Pages~~

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.

~~Programming Hive by Edward Capriolo, Dean Wampler, Jason ...~~

The Hive concept of a database is essentially just a catalog or namespace of tables. However, they are very useful for larger clusters with multiple teams and users, as a way of avoiding table name collisions. It's also common to use databases to organize production tables into logical groups.

~~4. HiveQL: Data Definition - Programming Hive [Book]~~

Hive is a data warehouse infrastructure tool to process structured data in Hadoop. It resides on top of Hadoop to summarize Big Data, and makes querying and analyzing easy. Initially Hive was developed by Facebook, later the Apache Software Foundation took it up and developed it further as an open source under the name Apache Hive.

~~Hive - Introduction - Tutorialspoint~~

HIVE is one of the top Hadoop ecosystem components widely used in the market. If you have good knowledge on data warehouse and SQL then this book will be of immense help in learning HIVE. Defines the architecture and programming very nicely. Personally I like this book.

~~Programming Hive: Data Warehouse and Query Language for ...~~

Apache Hive is a data warehouse system built on top of Hadoop and is used for analyzing structured and semi-structured data. Hive abstracts the complexity of Hadoop MapReduce. Basically, it provides a mechanism to project structure onto the data and perform queries written in HQL (Hive Query Language) that are similar to SQL statements.

~~Hive Tutorial for Beginners | Hive Architecture | NASA ...~~

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)

~~Programming Hive eBook by Edward Capriolo - 9781449326975 ...~~

HIVE is one of the top Hadoop ecosystem components widely used in the market. If you have good knowledge on data warehouse and SQL then this book will be of immense help in learning HIVE. Defines the architecture and programming very nicely. Personally I like this book.

Describes the features and functions of Apache Hive, the data infrastructure for Hadoop.

The fast and easy way to learn Python programming and statistics Python is a general-purpose programming language created in the late 1980s—and named after Monty Python—that's used by thousands of people to do things from testing microchips at Intel, to powering Instagram, to building video games with the PyGame library. Python For Data Science For Dummies is written for people who are new to data analysis, and discusses the basics of Python data analysis programming and statistics. The book also discusses Google Colab, which makes it possible to write Python code in the cloud. Get started with data science and Python Visualize information Wrangle data Learn from data The book provides the statistical background needed to get started in data science programming, including probability, random distributions, hypothesis testing, confidence intervals, and building regression models for prediction.

Need to move a relational database application to Hadoop? This example-driven 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. Completely updated for Hive 0.15.0, the second edition of this popular book 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.

This guide is an ideal learning tool and reference for Apache Pig, the programming language that helps programmers describe and run large data projects on Hadoop. With Pig, they can analyze data without having to create a full-fledged application--making it easy for them to experiment with new data sets.

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.

For many organizations, Hadoop is the first step for dealing with massive amounts of data. The next step? Processing and analyzing datasets with the Apache Pig scripting platform. With Pig, you can batch-process data without having to create a full-fledged application, making it easy to experiment with new datasets. Updated with use cases and programming examples, this second edition is the ideal learning tool for new and experienced users alike. You'll find comprehensive coverage on key features such as the Pig Latin scripting language and the Grunt shell. When you need to analyze terabytes of data, this book shows you how to do it efficiently with Pig. Delve into Pig's data model, including scalar and complex data types Write Pig Latin scripts to sort, group, join, project, and filter your data Use Grunt to work with the Hadoop Distributed File System (HDFS) Build complex data processing pipelines with Pig's macros and modularity features Embed Pig Latin in Python for iterative processing and other advanced tasks Use Pig with Apache Tez to build high-performance batch and interactive data processing applications Create your own load and store functions to handle data formats and storage mechanisms

Although you don't need a large computing infrastructure to process massive amounts of data with Apache Hadoop, it can still be difficult to get started. This practical guide shows you how to quickly launch data analysis projects in the cloud by using Amazon Elastic MapReduce (EMR), the hosted Hadoop framework in Amazon Web Services (AWS). Authors Kevin Schmidt and Christopher Phillips demonstrate best practices for using EMR and various AWS and Apache technologies by walking you through the construction of a sample MapReduce log analysis application. Using code samples and example configurations, you'll learn how to assemble the building blocks necessary to solve your biggest data analysis problems. Get an overview of the AWS and Apache software tools used in large-scale data analysis Go through the process of executing a Job Flow with a simple log analyzer Discover useful MapReduce patterns for filtering and analyzing data sets Use Apache Hive and Pig instead of Java to build a MapReduce Job Flow Learn the basics for using Amazon EMR to run machine learning algorithms Develop a project cost model for using Amazon EMR and other AWS tools

Want to tap the power behind search rankings, product recommendations, social bookmarking, and online matchmaking? This fascinating book demonstrates how you can build Web 2.0 applications to mine the enormous amount of data created by people on the Internet. With the sophisticated algorithms in this book, you can write smart programs to access interesting datasets from other web sites, collect data from users of your own applications, and analyze and understand the data once you've found it. Programming Collective Intelligence takes you into the world of machine learning and statistics, and explains how to draw conclusions about user experience, marketing, personal tastes, and human behavior in general -- all from information that you and others collect every day. Each algorithm is described clearly and concisely with code that can immediately be used on your web site, blog, Wiki, or specialized application. This book explains: Collaborative filtering techniques that enable online retailers to recommend products or media Methods of clustering to detect groups of similar items in a large dataset Search engine features -- crawlers, indexers, query engines, and the PageRank algorithm Optimization algorithms that search millions of possible solutions to a problem and choose the best one Bayesian filtering, used in spam filters for classifying documents based on word types and other features Using decision trees not only to make predictions, but to model the way decisions are made Predicting numerical values rather than classifications to build price models Support vector machines to match people in online dating sites Non-negative matrix factorization to find the independent features in a dataset Evolving intelligence for problem solving -- how a computer develops its skill by improving its own code the more it plays a game Each chapter includes exercises for extending the algorithms to make them more powerful. Go beyond simple database-backed applications and put the wealth of Internet data to work for you. "Bravo! I cannot think of a better way for a developer to first learn these algorithms and methods, nor can I think of a better way for me (an old AI dog) to reinvigorate my knowledge of the details." -- Dan Russell, Google "Toby's book does a great job of breaking down the complex subject matter of machine-learning algorithms into practical, easy-to-understand examples that can be directly applied to analysis of social interaction across the Web today. If I had this book two years ago, it would have saved precious time going down some fruitless paths." -- Tim Wolters, CTO, Collective Intellect

Let Hadoop For Dummies help harness the power of your data and rein in the information overload Big data has become big business, and companies and organizations of all sizes are struggling to find ways to retrieve valuable information from their massive data sets with becoming overwhelmed. Enter Hadoop and this easy-to-understand For Dummies guide. Hadoop For Dummies helps readers understand the value of big data, make a business case for using Hadoop, navigate the Hadoop ecosystem, and build and manage Hadoop applications and clusters. Explains the origins of Hadoop, its economic benefits, and its functionality and practical applications Helps you find your way around the Hadoop ecosystem, program MapReduce, utilize design patterns, and get your Hadoop cluster up and running quickly and easily Details how to use Hadoop applications for data mining, web analytics and personalization, large-scale text processing, data science, and problem-solving Shows you how to improve the value of your Hadoop cluster, maximize your investment in Hadoop, and avoid common pitfalls when building your Hadoop cluster From programmers challenged with building and maintaining affordable, scalable data systems to administrators who must deal with huge volumes of information effectively and

efficiently, this how-to has something to help you with Hadoop.

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.

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