Impala in Action: Querying and mining big data

Ricky Saltzer, Istvan Szegedi, Paul De Schacht

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Hadoop queries in Pig or Hive can be too slow for real-time data analysis. Impala, an ultra-speedy query engine from Cloudera, supercharges Hadoop by avoiding the typical Map-Reduce overhead and parallelizing queries so that they can run on multiple nodes. This is a big deal for big data, because with Impala, querying Hadoop takes seconds rather than minutes. Impala's dialect is close to standard SQL, and Impala seamlessly accesses HBase and HDFS (Hadoop Distributed File System), allowing considerable freedom in choice of data formats.

Impala in Action is a hands-on guide to querying Hadoop using Impala. It starts by comparing Impala to traditional databases and database services on Hadoop. Then it explains Impala's SQL dialect and the basics of data access. Next, it tackles data visualization tasks and provides techniques for securing Impala with Apache Sentry. The book also shows how to embed Impala queries in a Java client and how to connect to JDBC and ODBC clients. Advanced readers will appreciate the deep dive into Impala's architecture and the practical insights into the issues complicated configurations and complex queries can cause.

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