



# Impala in Action: Querying and mining big data

By Ricky Saltzer, Istvan Szegedi, Paul De Schacht

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**Impala in Action: Querying and mining big data** By Ricky Saltzer, Istvan Szegedi, Paul De Schacht

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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### About the Author

**Ricky Saltzer** is a tools developer at Cloudera, where he writes scalable software to support custom operations engineers. He is an expert in Impala, Hive, and HBase

**Istvan Szegedi** is a lead solution architect working for a large telecommunications company in the UK; he works regularly with a wide array of programming languages and enterprise data architectures.

**Paul De Schacht** is a Data Scientist for the leading provider of IT solutions to the global travel industry. He is at the heart of the travel intelligence platform where Hadoop and Impala are an essential part of daily operations. Paul has 15+ years of experience with distributed software architectures and has a passion for large data sets.

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