Scala Cassandra Tableau



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- Designed started in 2001, Released in 2004
 By Martin Odersky
- Scalable Language
 - Object Oriented and Functional Programming
- Runs on JVM and is statically typed

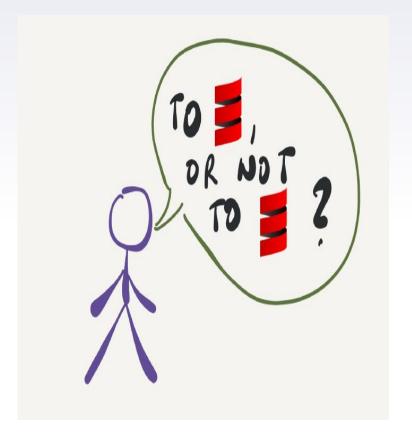






BIG CONCEPT

- Machine Learning concepts
- Similar to Java but concise
- Spark Scala
- Versatile



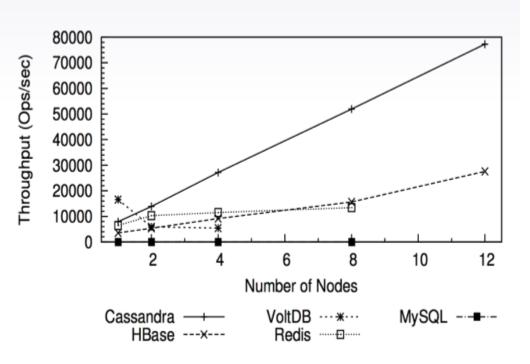
Cassandra Database



Overview of Cassandra

- Released in July 2008
- Avinash Lakshman and Prashant Malik
- Fault Tolerant
- Decentralized
- Scalable

Architecture



Cassandra Write Data Flows

Single Region, Multiple Availability Zone

- Client Writes to any
 Cassandra Node
- Coordinator Node replicates to nodes and Zones
- Nodes return ack to coordinator
- Coordinator returns ack to client
- Data written to internal commit log disk



If a node goes offline, hinted handoff completes the write when the node comes back up.

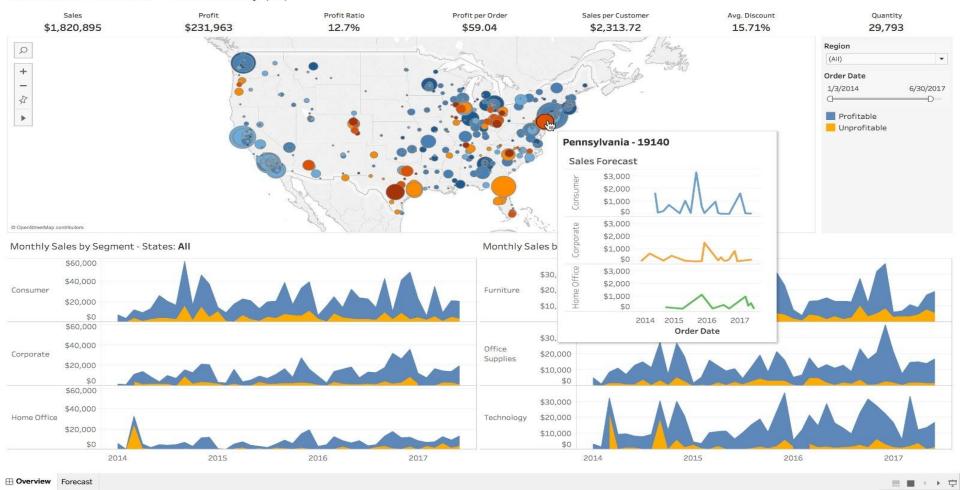
Requests can choose to wait for one node, a quorum, or all nodes to ack the write

SSTable disk writes and compactions occur asynchronously

NETFLIX



Executive Overview - Profitability (AII)



Tableau

- Intuitive User Experience
- Uses for everyone
- Ease of portability
 - Mobile-Friendliness
- High Performance
- Visually Pleasing
- Community



Example of Dashboard

https://public.tableau.com/profile/shenghao.huan q#!/vizhome/Titanic_16093671703820/Dashboard1