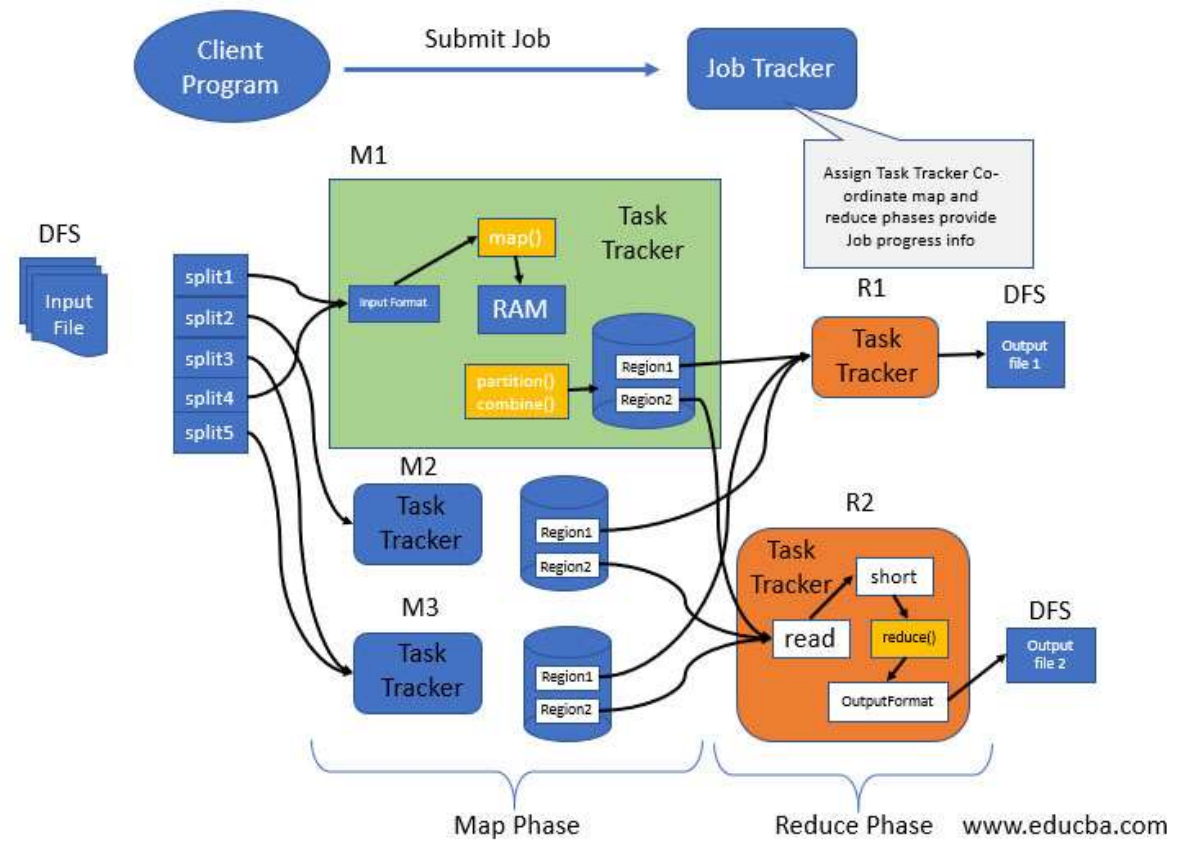


Hadoop MapReduce or Apache Spark?

Presented by Welgama W.I.P.
239185V

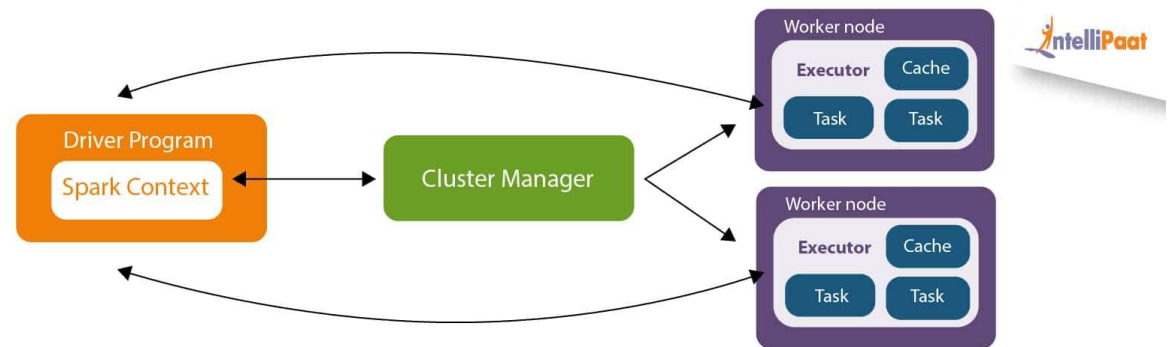


What is MapReduce?



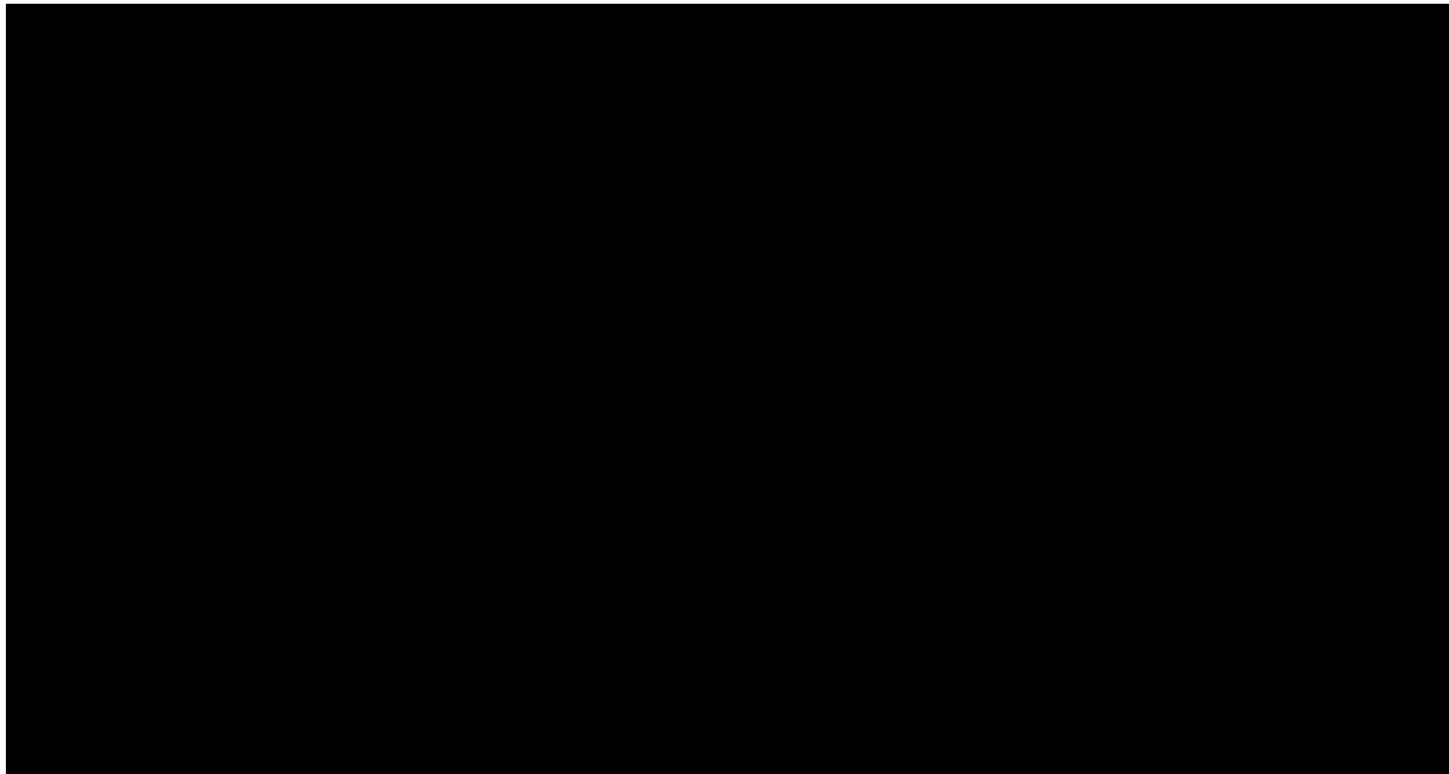
What is Spark?

Apache Spark is an open-source, distributed computing system designed for big data processing. It provides an interface for programming in various languages such as Java, Python, and Scala, and supports various data sources including Hadoop Distributed File System (HDFS) and Cassandra. Spark's main abstraction is the Resilient Distributed Dataset (RDD), which enables fault-tolerant and parallel processing of data across a cluster of computers.

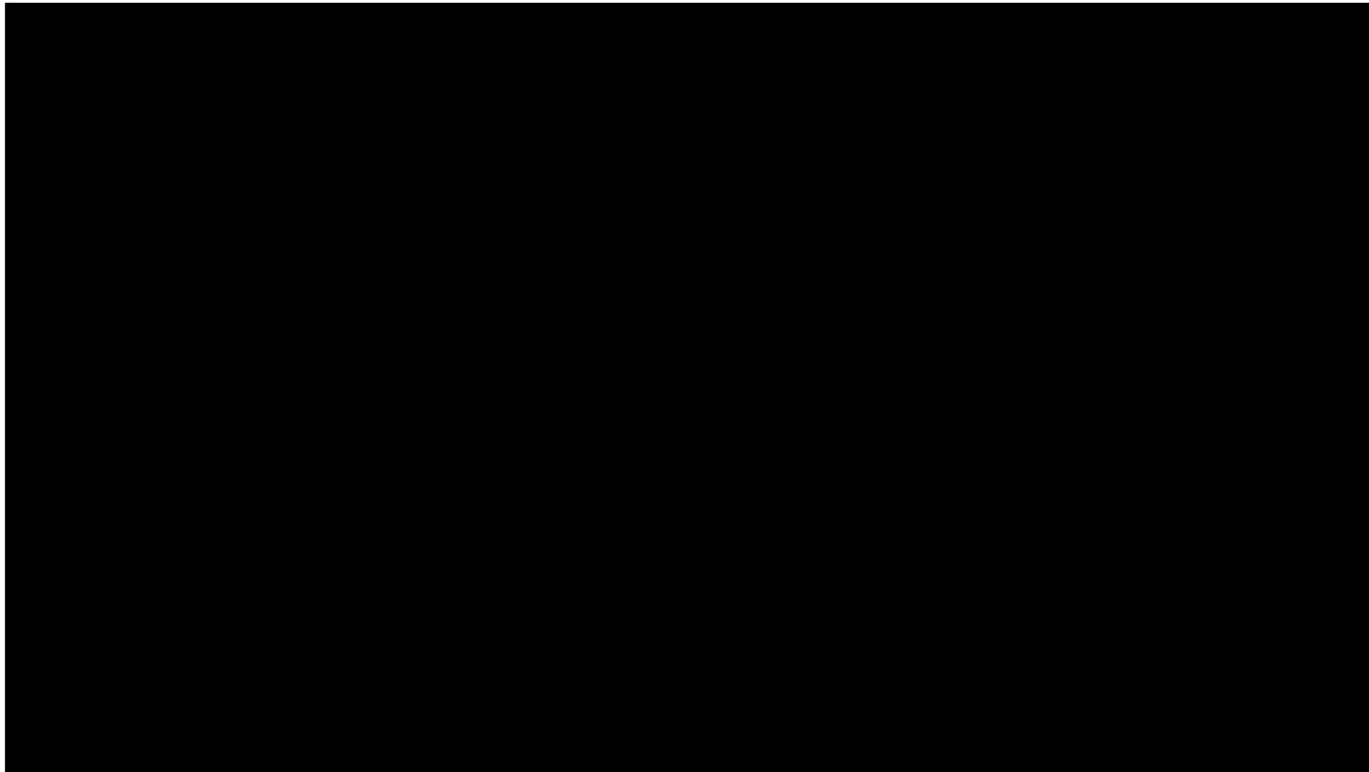


Demo – Part1

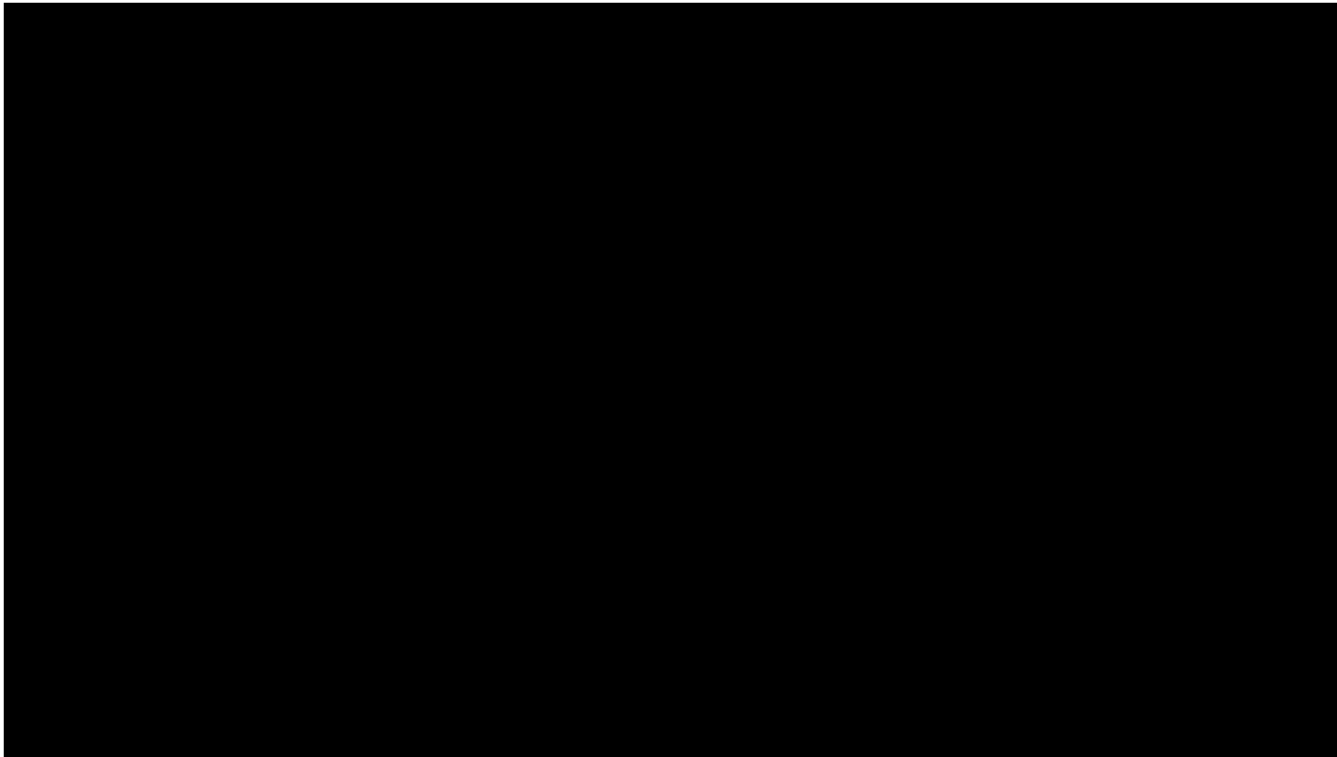
MapReduce Framework & HiveQL



Demo – Part2(Using Spark-shell) Apache Spark & Spark-SQL

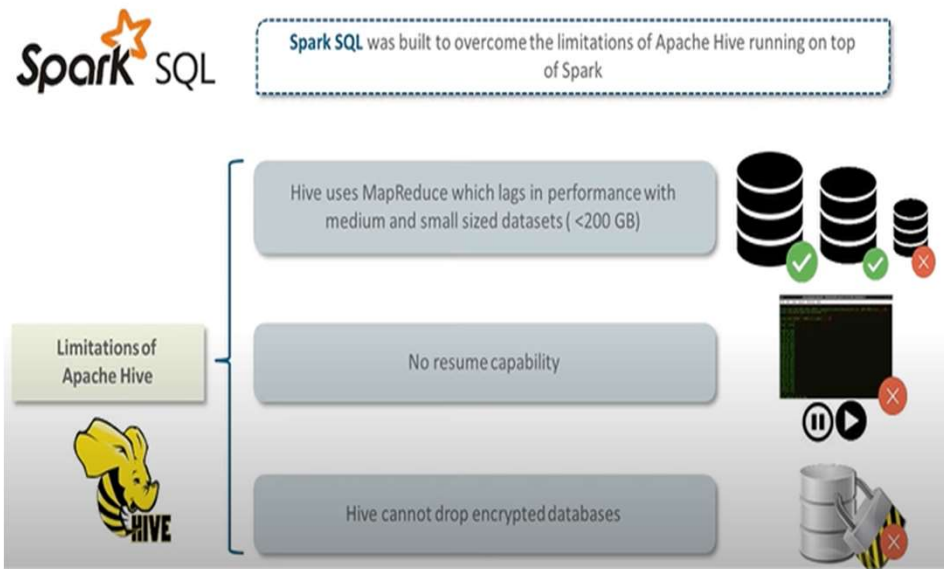


Demo – Part2(Using Beeline) Apache Spark & Spark-SQL

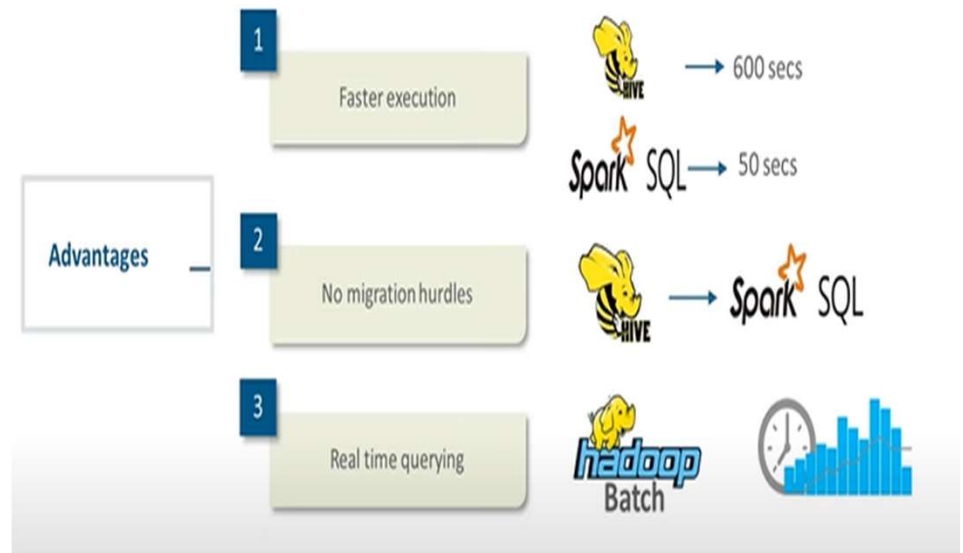


Comparison

Limitations of Hive

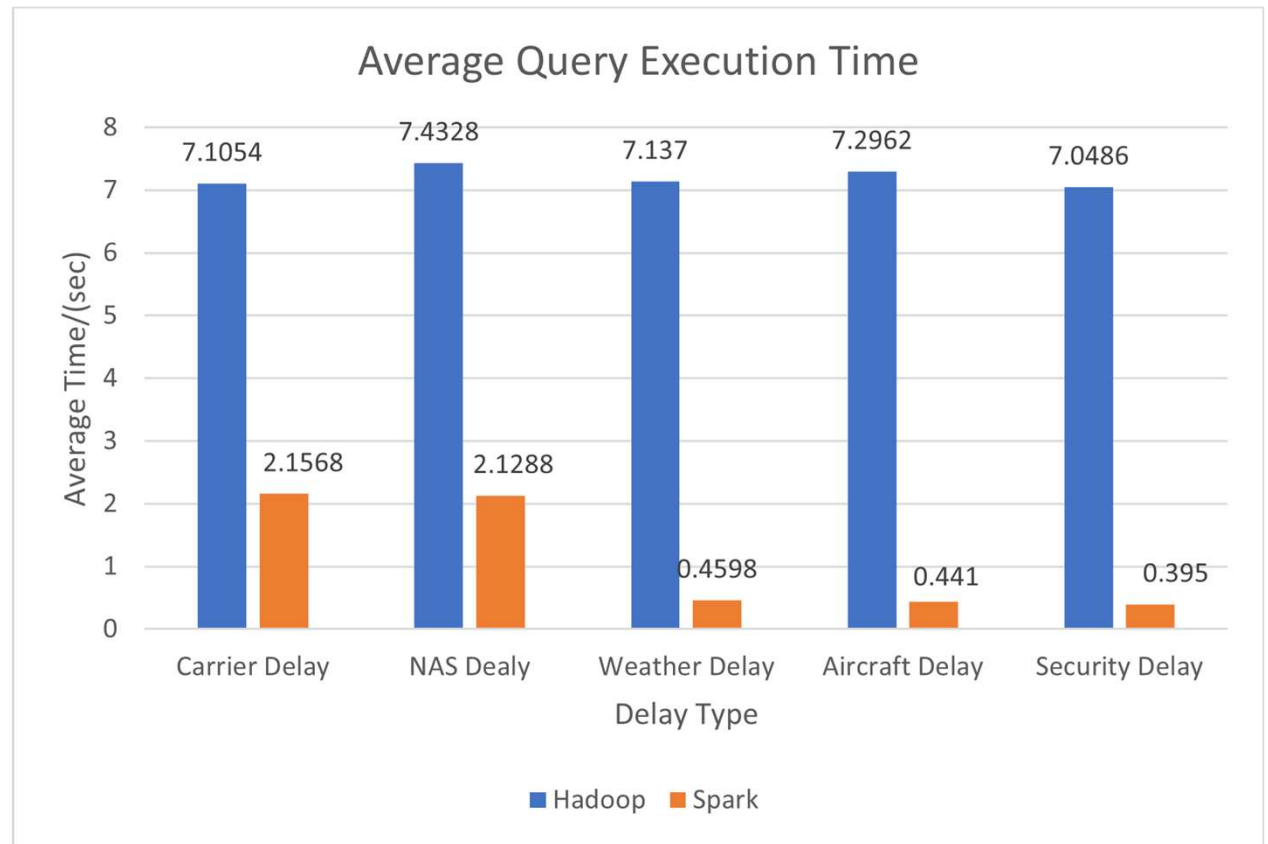


Advantages of Apache Spark

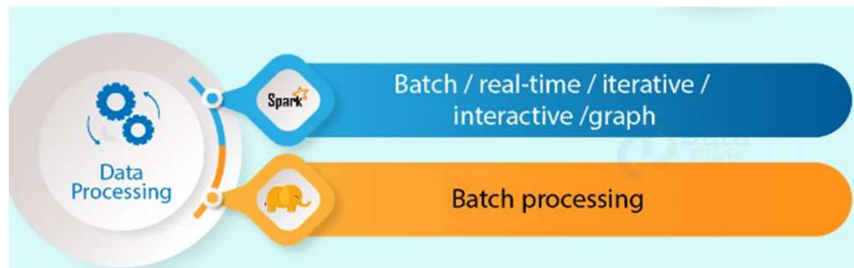
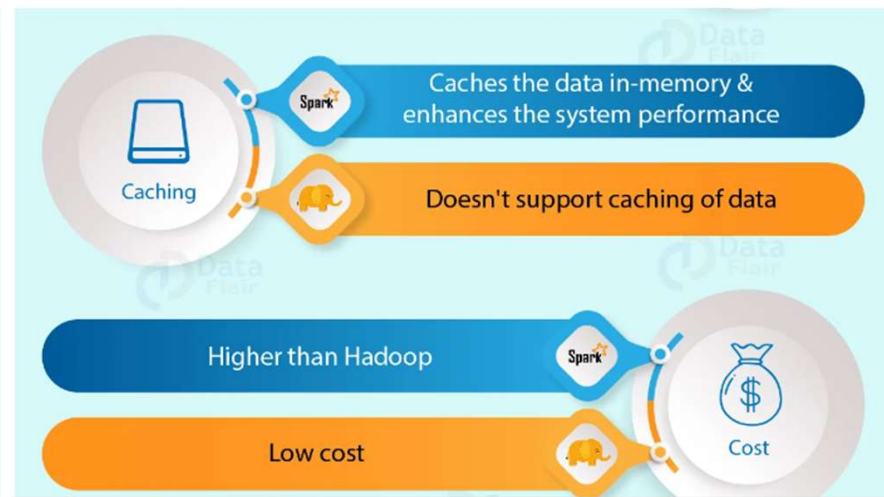
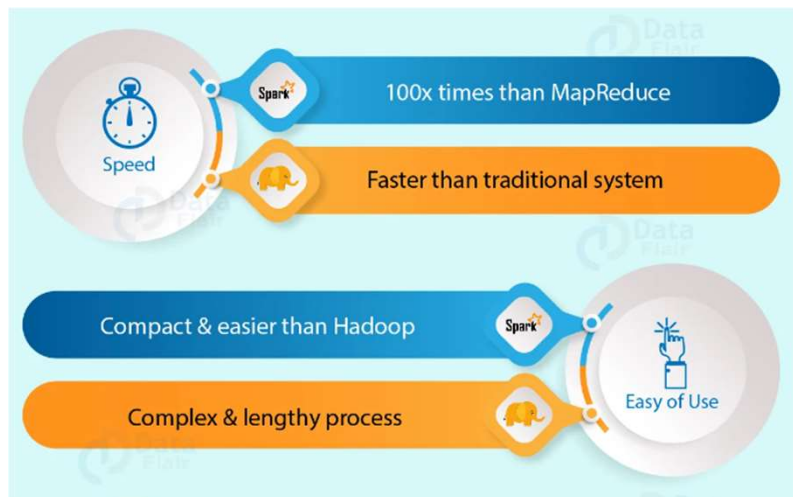


Fast
Process?

Apache
Spark!!



Conclusion





THANK YOU!