## Hive Vs Impala

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Differences of Hive VS. Impala

Author Apache  design Map reduce jobs  Use cases Hive which transforms S	JI IIII Daia
design Map reduce jobs	Impala
	Cloudera/Apache
Hive which transforms S	MPP database
queries into MapReduce of Apache Spark jobs under covers, is great for long running ETL jobs (for fault tolerance is high desirable; for such jobs, don't want to have to redrunning query that failed several hours)	on top of Hadoop and is largely the written in C++ for speed, pushes data processing down to local DataNodes, avoiding network bottlenecks. enables low- latency/interactive queries, do a long- especially under multi-user

## Differences of Hive VS. Impala

	Hive	Impala
Read/write	parallel	Read in parallel, write on 1 virtual disk - may change.
Resource management	Yarn	128GB per node. Yarn supported.
SQL syntax	HiveSQL	?
Performance	Disk	In memory, All heavy calculations like group by, conversions would be memory based.
Querying	May start in a delay (batch jobs)	No delay
Query fault tolerance	Will restart on failure.	Start over in failure.

## Differences of Hive VS. Impala

	Hive	Impala
Complex data types	yes	no
Anti pattern	Interactive / ad hoc.	?