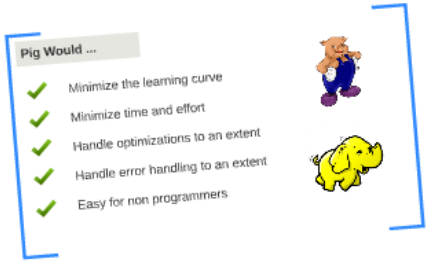
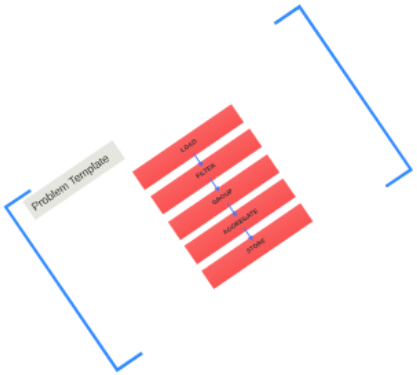
APACHE PIG





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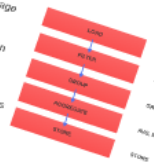
APACHE PIG

Pig Latin

Simple to use data flow language

Instructions to process data given by the user

Pig analyze, optimize the instructions and construct and submit MR jobs



Pig Would ...

- Minimize the learning curve
- Minimize time and effort
- Handle optimizations to an extent
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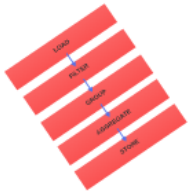
- Easy for non programmers

Philosophy 1 - Pigs Eat Anything

Metadata or not

Structured or not

Problem Template



Philosophy 2 - Pigs Fly

Designed with Big Data performance requirements in mind

Philosophy 3 - Pigs Are Domestic Animals

Designed to be easily controlled and modified by its users

Philosophy 4 - Pigs Live Anywhere

Pig authors envision Pig to work on any distributed processing frameworks similar to Hadoop in future.

Writing MapReduce Program - (Few) Challenges

Conceptually Visualize Problem in MapReduce

Requires lot of coding to do simple stuff for eg: Joins

Programming Language

Time & Effort

Apache Pig

- Yahoo!
- First release - Sep 2008
- Client tool
- HDFS & MapReduce
- Same implementation/phases as a MR program

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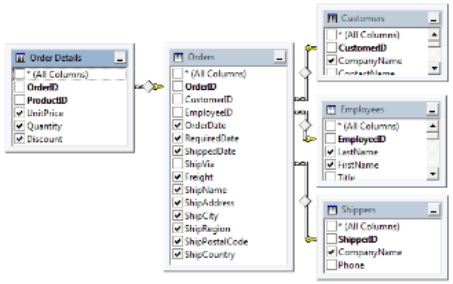

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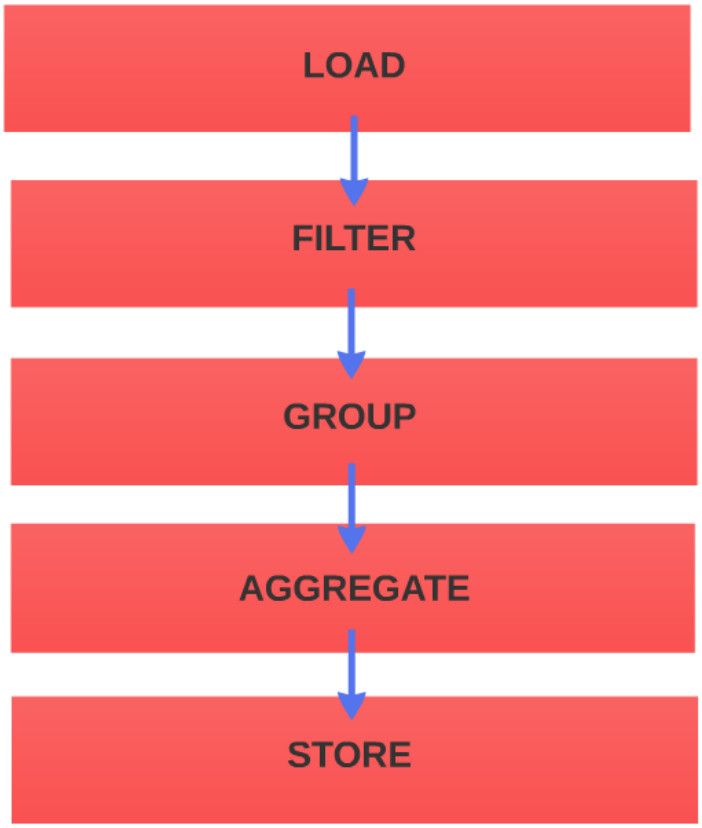

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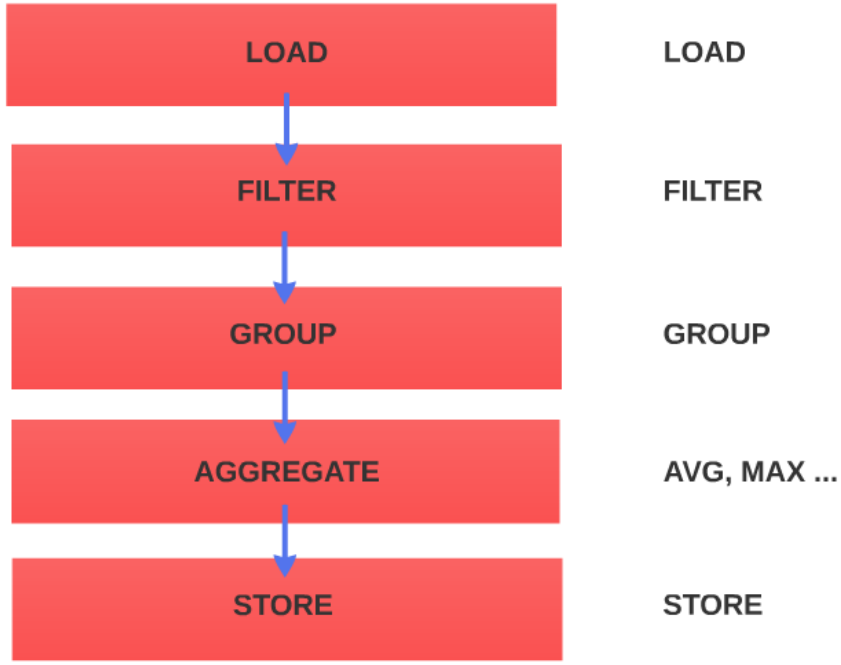

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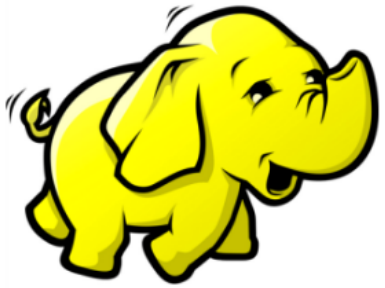

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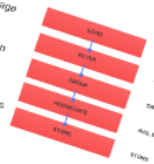

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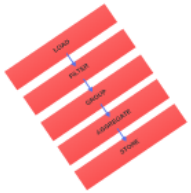

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