

Copy of transaction data, specifically structured for query and analysis"

[Ralph Kimball]

#A single, complete and consistent store of data obtained from a variety of different sources made available to end users in a what they can understand and use in a business context."

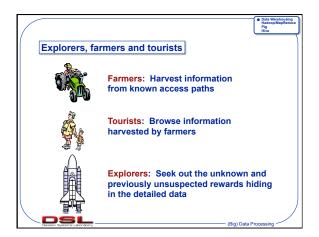
[Barry Devlin]

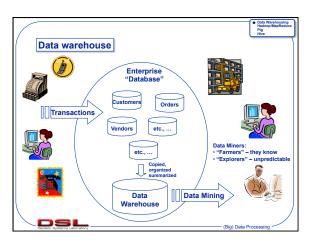
Data warehouse

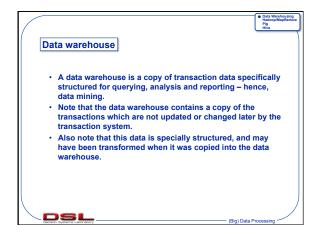
- For organizational learning to take place, data from many sources must be gathered together and organized in a consistent and useful way hence, "data warehousing"
- The data warehouse is a collection of data that is pulled together primarily from operational business systems and is structured and tuned for easy access and use by information consumers and analysts, especially for the purpose of decision making.
- The goal of data warehousing is to integrate enterprise wide corporate data into a single repository from which users can easily run queries.
- Data warehouse is an organization's (enterprise's) memory.
- DW provides a "Single version of the Truth"

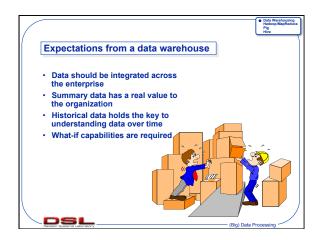
Decision Systems Lebonstony

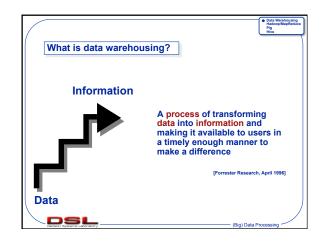
(Big) Data Processing



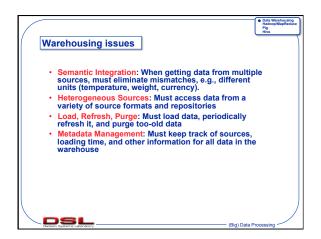


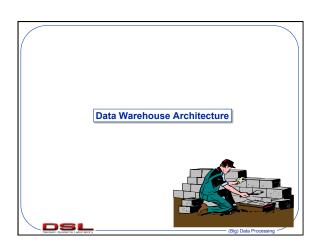


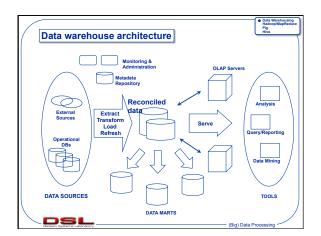


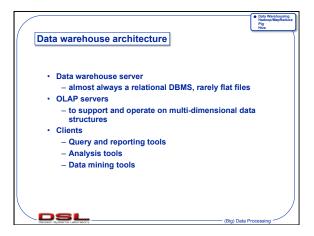


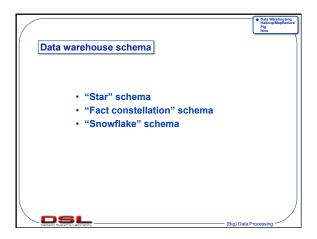


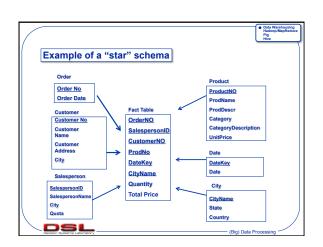


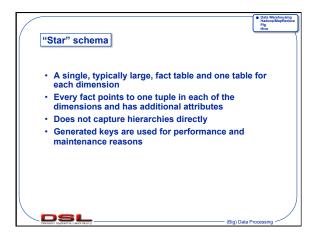


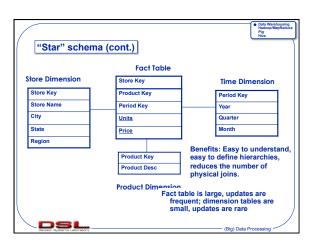


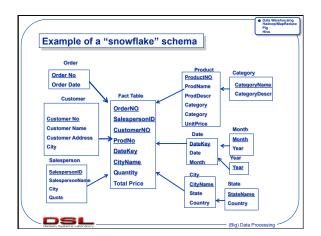




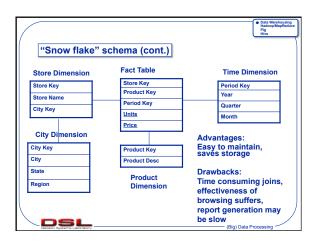


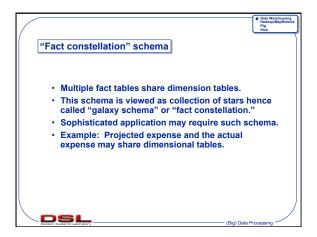


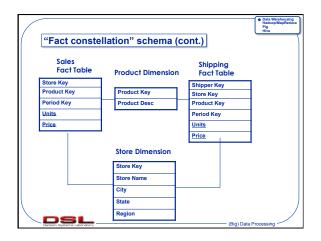


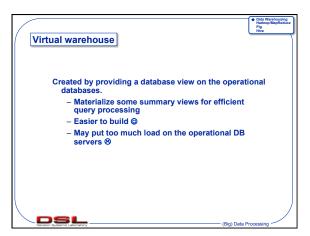




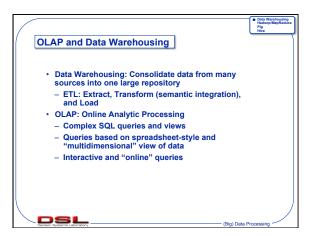


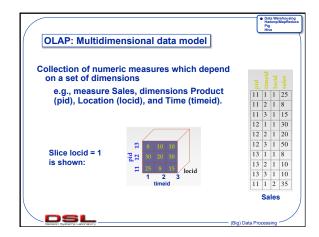


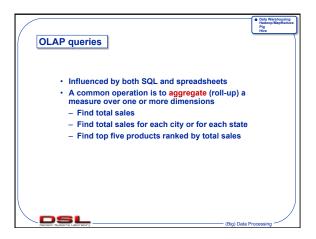


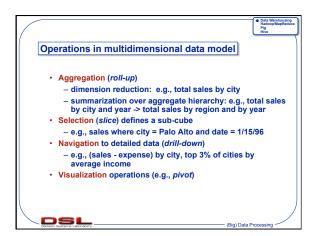


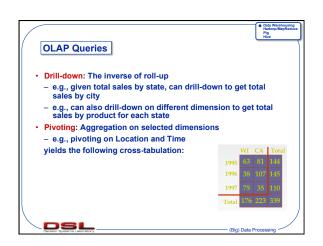


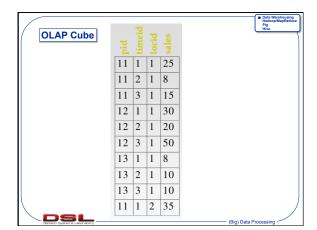


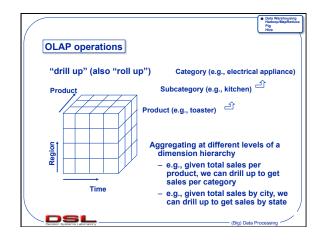


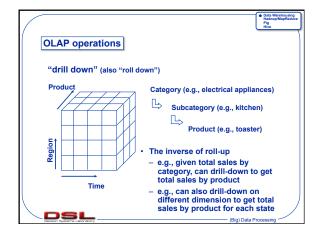


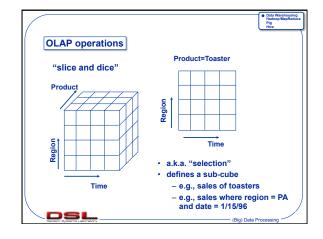


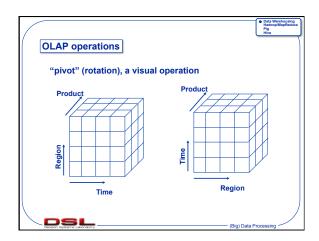


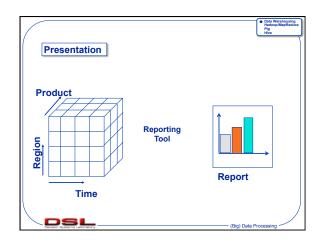


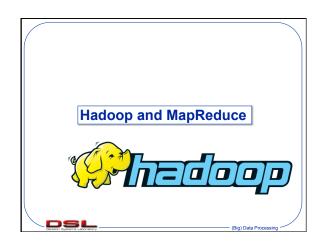




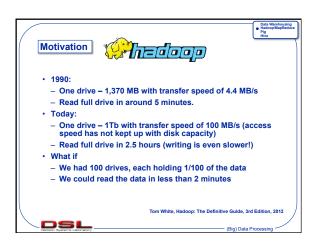


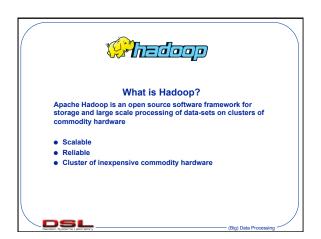


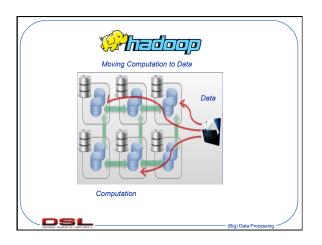


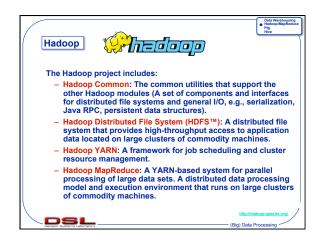




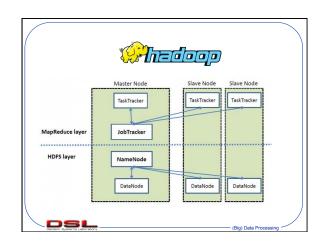


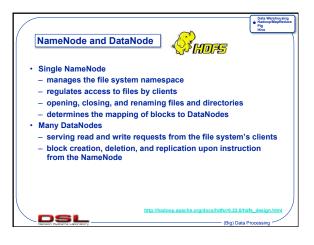




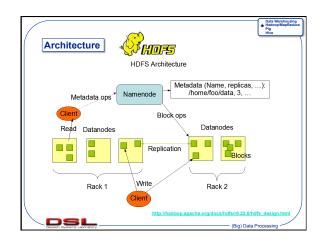


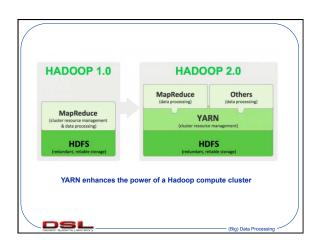


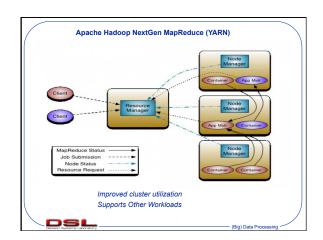


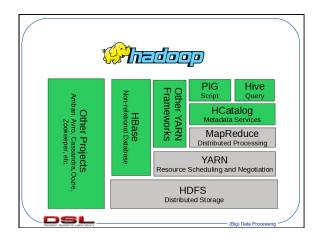


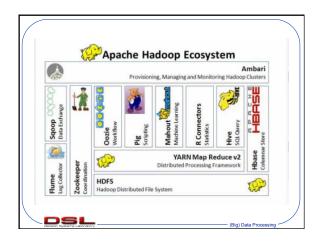


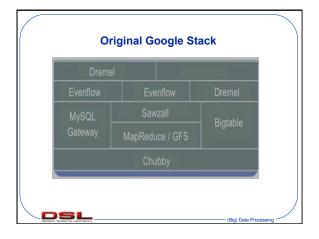


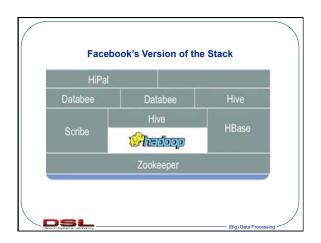


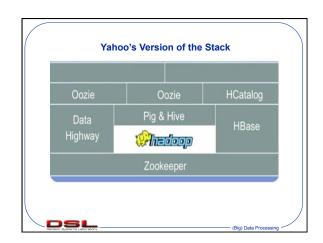


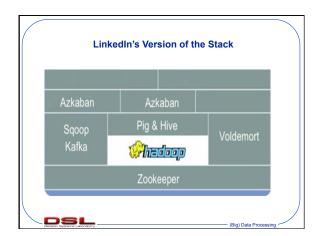


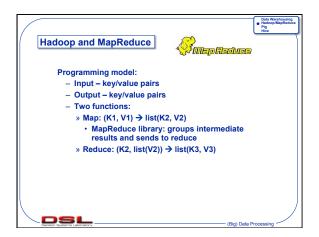


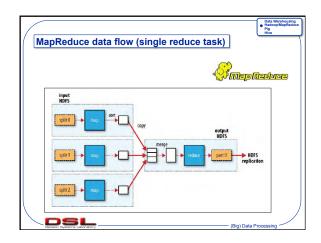


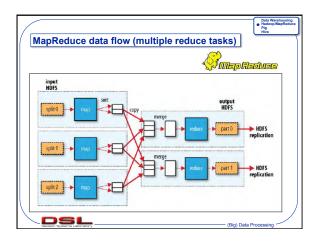


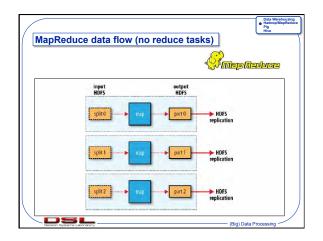


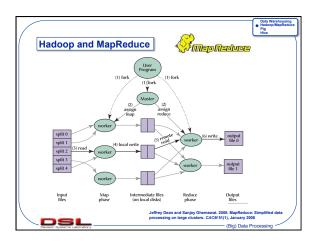


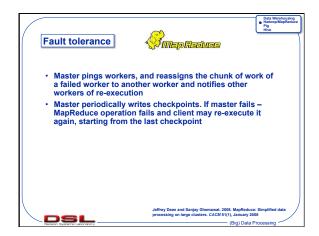


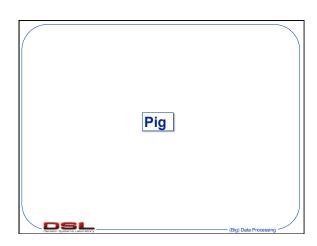


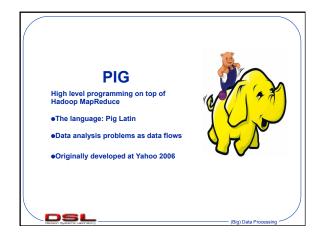


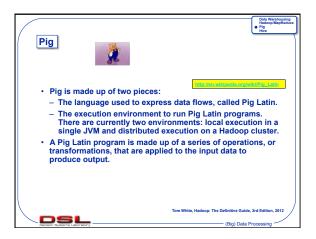


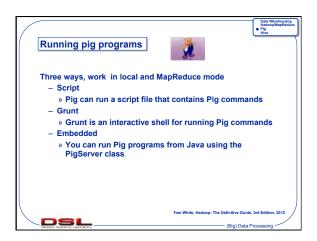


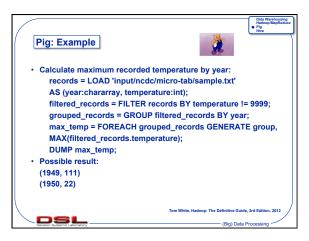


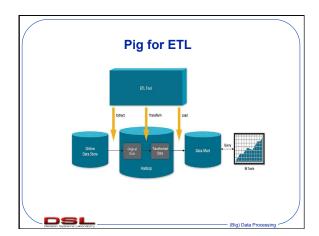


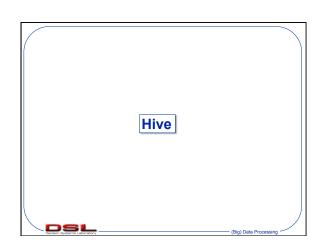


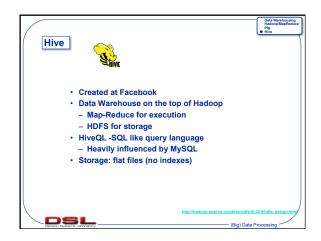


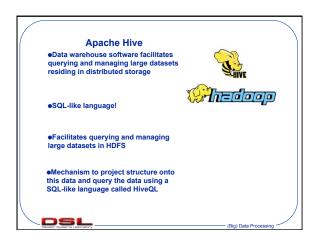


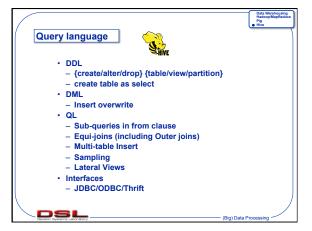




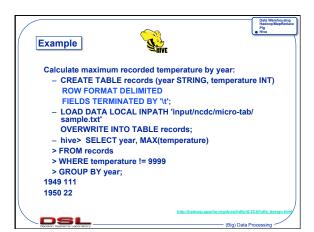


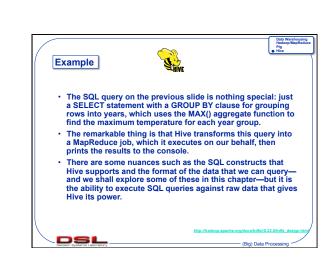




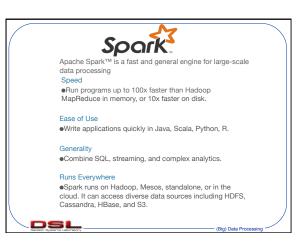












Suggested readings (processing)

http://www.dwinfocenter.org/

http://www.vogella.com/articles/ApacheHadoop/article.html http://hadoop.apache.org/docs/r0.20.2/mapred_tutorial.html

Pig:

http://pig.apache.org/docs/r0.9.1/start.html

Hive:

http://hive.apache.org/

Hadoop lectures (Tom White):

http://www.youtube.com/watch?v=Aq0x2z69syM http://www.youtube.com/watch?v=2SpTvWiXBcA

LinkedIn lecture Jakob Homan

http://www.youtube.com/watch?v=SS27F-hYWfU



(Big) Data Processing