Abstract

Data Warehouses usually work on history data. In most cases, the Data Warehouse is loaded with data from operational or transactional systems on a weekly or nightly basis. As today’s decisions in the business world are becoming real-time, it is only natural that Data Warehouse, Business Intelligence, Decision Support and OLAP systems must quickly begin incorporating real-time data. When shifting from a traditional offline and time-consuming data warehousing system to a real-time system, two important considerations are speeding up the ETL and the OLAP process. This survey looks into the various challenges involved in building a real-time Data Warehouse and some of the solutions available to overcome them.
From Data Warehouses to Streaming Warehouses: A Survey on the Challenges for Real-Time Data Warehousing


Lukasz Golab and Theodore Johnson, Consistency in a Stream Warehouse, 5th Biennial Conference on Innovative Data Systems Research (CIDR '11) January 9-12, 2011, Asilomar, California, USA.


Index Terms

Computer Science
Databases

Keywords
Real-Time Data Warehousing
Real-Time ETL
Data Stream Management Systems