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.

References

- The Data Warehouse Lifecycle Toolkit, Ralph Kimball, Margy Ross, Warren Thornthwaite
From Data Warehouses to Streaming Warehouses: A Survey on the Challenges for Real-Time Data Warehousing.


Index Terms

Computer Science

Databases

Keywords

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