DATABASE DISTRIBUTION DESIGN IN WAREHOUSE INFORMATION SYSTEM WITH MULTI MASTER REPLICATION METHOD

ABSTRACT

Warehousing is part of a company's logistics system to store company products, as well as providing management with information about the status, condition, and movement of products stored in the warehouse. But over time, a warehouse will experience problems in running its storage system, such as the system stopping because the server is damaged resulting in hampered data distribution. Therefore, the Design of Distribution Database for Warehousing Information Systems with the Multi Master Replicated Method is expected to be able to realize data integration, to store historical data, to show up-to-date data, to perform efficiency of administrative processes and warehousing documentation. It is also expected to handle obstacles such as data inaccuracies, missing data, late reports and concurrent changes made by different members. This system was developed using the Delphi programming language with data storage using MySql and using the multi master replicated method. Designing and Building a Distribution Database for Warehousing Information Systems with the Multi Master Replicated Method can help protect data from possible data loss and keep the system running if one of the servers dies.

Keywords: Database, Distribution, Warehousing, Multi Master, Replication.