ABSTRACT

EMPLOYEMENT DATA PROCESSING APPLICATION WEB-BASED WITH DISTRIBUTED DATABASE USING ASYNCHRONOUS REPLICATION METHOD AT PT. TASPEN (PERSERO) MAIN BRANCH OFFICE BANDUNG

by

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In the work zone PT.Taspen have one headquarters and four branch offices located in many different cities. The lack of connectivity between the branch database with the central database which is integrated with each other and differences in staffing data processing applications used by each branch causing the slow process of updating data from branch offices to headquarters. In addition, the storage media on the database server is susceptible to problems. Because all data is stored in one branch of the central database.

Distributed database system is the answer to the problem. This system distributes the data residing in the branch office database to a database located at headquarters. Distribution processes take place periodically. For storage media on the central database, the database will be divided into two, namely menjaji master and slave using asynchronous replication methods. This type of method allows database replication master slave database is not necessarily connected all the time.

In this research, the database is distributed from branches to head office via the web network. Therefore, any data that is updated at each branch office, will be distributed to the central office. So that the data residing in databases branch equal to the data residing in the central database. While the data replication process is only done at the central office datasbe only.

Given the distributed database system, allowing the central office knows all of the data in each branch office. So the distribution process of data processing between branches and its head office could well integrated and can be replicated to the central databse storing all data on other storage media.

Keywords*: Employement Data Processing, Distributed Database,Aynchronous Replication, Update Periodic Database Master and Slave,*