

Abstract

The development of information system causes the needs of data exchange in the same organization hierarchy which has geographical differences as well as in the different organization hierarchy will be increasing. One of the solution on the data exchange is using data replication on distributed database. The process velocity and the amount of data row which can be replicate in time unit are become consideration when define the ways data replication on the distributed database.

There are several ways that we can use when we want to do some replication on distributed database. Those ways are directly replicate when some data changing occurred from master database to local database, collecting data first then replicate from master database to local database, and periodically replicate based on the defined time.

By testing those several way to replicate above, we can conclude that by collecting data first and periodically replicate are the fastest process and the most amount of row that successfully replicated in time unit.

Keywords: replication and distributed database