ABSTRACT

ANALYSIS AND IMPLEMENTATION OF DATA SYNCHRONIZATION ALGORITHM FOR MASTER DATA MANAGEMENT TOOLS BASED ON OPEN SOURCE PLATFORM AT PT XYZ

By

AMRI HANIF

1202150075

Data is the source of any information. Quality of data will provide accurate information. There are still many companies that have not been able to maintain the quality of data. There is still a lot of duplication and redundancy of data in each application. Actually, the data remains the same even when the app is different. This problem can be solved by applying Data Governance processes, that is Reference and Master Data. In this process requires a Master Data Management Tool to manage, so the data will no longer be duplication or redundancy of data. In this research focuses on the analysis and implementation of master data synchronization algorithms, update master data algorithms, saving master data algorithms and using open source application platform that is Pentaho Data Integration. Based on this research, it produces the matching data algorithm, saving master data algorithms, change master data algorithm and synchronization and integration master data algorithm. Although use open source-based application, MDM algorithm in this research can be made of data on the PT XYZ can be synchronized and integrated between applications and can help PT XYZ to maintain the quality of their data.

Keywords : Master Data Management, Data Governance, Open Source Platform