

## Abstract

Self-evaluation is a process of internal evaluate in a course of study at a college that aims to improve education quality, planning, improvement of a course of study and to prepare for external evaluation or accreditation. System called Sistem Informasi Evaluasi Diri is intended for leaders and stakeholders to conduct a self-evaluation process at the Faculty of Informatics IT Telkom based on three chosen self-evaluate component, Students and Graduates, Human Resources, and Researches, Community Services, and Cooperations. Sistem Informasi Evaluasi Diri is built using data warehouse that designed with galaxy schema and data mining with CT-Pro algorithm. Galaxy Schema of data warehouse or commonly called fact-constellations schema is one of some data warehouse schema which a dimension table can be connected with two or more fact tables. Data mining with CT-Pro method is a modification of the other association rule algorithm called fp-growth. The difference between CT-Pro algorithm and fp-growth algorithm is in the trees-making process. The nodes on trees-making process in CT-Pro (CFP-Tree) is less than the nodes on trees-making process in fp-growth (FP-Tree). The purpose of using data mining CT-Pro Algorithm is to get the rules from the self-evaluate component data in order to be knowledge for self-evaluation and accreditation. The rules is depend on the minimum support and minimum confidence. The tests showed that the data warehouse that built on the system is met the four characteristics of data warehouse, which is subject oriented, integrated, time variant, and non-volatile. The tests on data mining CT-Pro showed that the association rules in students data can't be retrieved because the attributes of the students data is sketchy.

**Keywords:** *Data Warehouse, Galaxy Schema, Data Mining, CT-Pro*