ABSTRACT

Database systems that currently exist can only handle certain, deterministic, and precision data. Whereas, in real conditions some vague data on database system for decision making process is often needed. Therefore, to overcome that problem, a fuzzy logic concept could be used.

This final project implement tahani model of fuzzy database into query that is called Fuzzy Query Database. It means a query has variables which is valuable of fuzzy. As for the method of calculating the decision support used mamdani's method. Decision making will give information about lecturer performance, then presence and performance criteria of lecturer that is valuable of ambiguous is needed. The criteria data is based on the degree of membership of each lecturer will be processed through tahani fuzzy method process.

Through this final project is expected to create a system that can analyze and provide competent and professional value for the performance of lecturers in the Faculty of Electrical Engineering, Telkom University consistent with the criteria from existing data by applying fuzzy databases.

Key words: Fuzzy Logic, Fuzzy Query Database, Lecturer Performance