ABSTRACT

Database relational system is a database system which is used widely today. Within that model either information that is handled or query that is used has precise syntax and semantics. The need of appropriate processing is the weakness of this relational database system in order to represents the real world that is vague. This model is based on black and white, whereas the real world is gray. Therefore the relational database has a limited usefulness. To handle this weakness, it is need an application that combines relational database system with fuzzy concept.

Fuzzy relational database system is an approach to handle the weakness of conventional relational database, which can handle and also manipulate the unappropriate information. In the fuzzy relational database system, the unclear or unappropriate information can be reserved by the using of fuzzy linguistic term(e.g big, young) which is used in daily conversation.

Through this final project, it will be developed an application that use fuzzy relational database system using case study is choosing new notebook information with fuzzy development method where the description of the language is defined by the agreement of user community. This reserach is intended to observe the best way of determining membership function value in each fuzzy sets using direct rating method approach. This method will be compared with conventional method in order to determine which one is the best method based on user satisfaction.

With this final project, it's hope that user could receive information about new notebook using query language where the description of that language is subjective. In the other hand, it will be obtained the best method in determining membership function value in each fuzzy sets based on user satisfaction.

Key word : Fuzzy logic, fuzzy database, membership function, direct-rating.