Abstract

For Many Years, achieving unambiguous knowledge has been turned to a serious challenge for human being. The aim of this paper is to emphasize situation when classical {true, false} logic is not adequate for data selection and data classification. Linguistic expression like: high salary, young etc are very often used in life and in statistics. The goal of this paper is brief study of fuzzy logic and sets and how to make it suitable for database queries and classification tasks. Fuzzy approach is introduced with usual relational database model to handle linguistic queries. The purposed fuzzy approach provides flexibility when users cannot unambiguously set hidden boundaries between data. Our work gives the flexibility to query the database in natural language using FRDB, which permits to have a range of answers in order to offer to the user all intermediate variations, which in turn will enhance the expressiveness of human expression, without any effect on searching time and with reduced cost. In this paper we are using Query Builder tool of MATLAB to show the result of query. Fuzzy query interpreter helps to convert fuzzy query into SQL query without need to learn a new query language. In this paper, we extend the work of medina et al. to implement a new architecture of fuzzy DBMS based on the GEFRED model. This architecture is based on the concept of weak coupling with the DBMS SQL Server.
Fuzzy to SQL Conversion using Gefred Model with the help of MATLAB

- Jose Galindo, “Handbook of research on fuzzy information processing in databases” IGI Global, 2008.
- Handbook of Research on Fuzzy Information Processing in Databases by José Galindo,Volume 1

Index Terms

Computer Science
Information Sciences

Keywords
Fuzzy SQL membership function query builder tool