

A GUI Based Tool for Generating XQuery and Fuzzy XQuery

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ABSTRACT

In recent years, the extraction of data from XML documents is an important issue for XML research and development. Due to the nature of XML data, formulating an XML query using an XML query language such as XQuery requires considerable effort. A user must be completely familiar with the syntax of the XQuery language, and must be able to express his/her needs accurately in a syntactically correct form. In many real life applications it is not realistic to assume that users are proficient in expressing such textual queries. So we propose automatic generation of XQuery processing by just selecting XML tag names and condition checking. In this paper, we present the fuzzy XQuery processing techniques for Native XML Database systems, where the weights of attributes can be described by linguistic terms represented by fuzzy numbers. The proposed fuzzy XQuery processing techniques allow the users to use linguistic terms in the XQueries represented by fuzzy sets. In this paper, we propose a user-friendly visual querying methods for XQuery and Fuzzy XQuery operations. We illustrate our proposed idea by developing automatic XQuery and Fuzzy XQuery generation system using VB.Net coding.

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