KNOWLEDGE ACQUISITION FOR VIEW-BASED QUERY PROCESSING

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Abstract

View-based query processing aims at answering a query only on the basis of the information on a set of views. Query rewriting and query answering are two major techniques of view-based utilization. The problem of query rewriting has been studied extensively on the basis of view format. We propose a different perspective of using views; that is, processing query through the semantic of views. On this aspect semantic knowledge is an important source of intelligence for view-based query processing. Acquiring the semantic knowledge is the main focus of our research.

In this paper, we will show how to use inductive logic programming approach to derive semantic rules from the data in a database. Heuristic is used to reduce the search space as well as the costs in the process of rule derivation. Effectiveness and efficiency of our algorithm are evaluated and presented in this paper.