A User Friendly Universal Database Retrieval Interface

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Abstract

The universal relation model has been proposed to achieve complete path independence in the database retrieval With universal queries, users need not be concerned about the logical organization and some operations of the logical organization. Taking advantage of the universal relation model and Query-By-Example (UQBE). UQBE query provides the users a flexible and natural retrieval interface. UQBE Converter interprets the universal queries based on a new graph-theoretic method. Our approach is to get the connection along the shortest path in the hypergraph going through all the referred attributes in the universal queries. When the number of vertices in the hypergraph is greater than two, our approach performs better than the tableau method proposed by Aho.

Keywords: Universal Database, Query-By-Example, Hypergraph, Maximal Object.