Research on XML-based Schema Mapping in Multidatabase Systems

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Abstract
A multidatabase system mainly solves the problem of data sharing and integration among local database systems. There are four levels of schema structures in multidatabase systems. Multidatabase users use global query language to access global schema in multidatabase systems. But the final answer should be obtained from local database systems. So, a mapping from global schema to export schema and from export schema to local schema must be established. An XML-based Integration Data Model (XIDM) is presented as a common data model for multidatabase systems in this paper. An approach of schema mapping based on XML is also given, and finally, implementation and analysis of global and local mappings in multidatabase prototype – Panorama are discussed.

Key words
Multidatabase systems, Schema mapping, Common data model, eXtensible markup language (XML)