Panorama Multidatabase Prototype

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Abstract:

Panorama is a multidatabase system developed in HUST.   The project aims to achieve interoperability among existing, heterogeneous, federated database management systems such as Oracle8, Sybase, and DM2*.   This system is based on OMG's distributed object management architecture and it is implemented on top of CORBA compliant, namely VisiBroker, which is used as its infrastructure. Panorama can provide its users a single common data model and a single global query language named PanoSQL, which make it possible to incorporate different databases into the system.   In this paper, we, first, discuss the architecture and components of Panorama system.   We also discuss the schema integration in this system.   Finally, we extend our discussion to the query language and the query processing developed for this system.

Key words:

CORBA architecture; Schema integration; Query processing; Multidatabase system