

Abstract

This research project employs Declarative Program theory to develop a theoretical foundation for Deductive Object-Oriented Databases (DOODs) which covers deduction, hierarchical classification, inheritance and implicit information. In order to apply the concepts gained, this research project also develops a theoretical framework for XML document databases, which are a kind of DOOD. The framework permits representation of XML documents, modeling of XML DTDs and formulation as well as evaluation of XML queries.

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