

Query evaluation in almost consistent databases using residues

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Abstract

The authors consider the problem of logical characterization of the notion of correct answers in a relational database that may violate given integrity constraints. This notion is captured in terms of the possible repaired versions of the database. A computational counterpart of the semantic notion is provided in terms of the reconstruction of the database as a deductive database to which concepts and techniques from semantic query optimization are applied with the purpose of computing correct answers.

Keywords

Query processing, Transaction databases, Database languages, Computer science, Read only memory, Database systems, Electrical capacitance tomography.