Section number: 06

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Title of the poster: Query Transformation from Relational to Equivalent Object-oriented Database

Text of abstract: Paper presents a method of query transformation between relational and object-oriented databases, based on graphs. This problem arises when migrating from relational to object-oriented database, and in heterogenous databases. The algorithm first creates graph that represents query semantics in relational database, then transforms it into graph that represents object-oriented query semantics, and finally traverses it according to that sementics, creating equivalent object-oriented query. The algorithm is an improvement of methods proposed in [1],[2], according to new directions in database theory.

[1] Predrag Stanisic, "Database Transformation from Relational to Object-Oriented Database, including query translation" Computer Programming Russian Academy of Science, No. 2, 1999, pp 12-45. (in Russian)

[2] Stanisic P. "Query Translation from Relational to Object-oriented Database", Mathematica Montisnigri, No. 11, 2000.

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Key words: database, query, relational database, object-oriented database