

Implementation of Data Normalization System for Relational Database on Functional Dependency

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Abstract

Relational database normalization is an important step in database design. The goal of normalization is to reduce data redundancy and facilitate efficient updates. RDBNorma is used for semi-automating the process of relational database normalization up to third normal form. It is used to represent a relational database schema and its functional dependency in computer memory using only one linked list with the algorithms to a relation into second normal form and third normal form. The performance of RDBNorma 2NF time and 3NF time is measured in milli seconds. The main objective of implementation of data normalization system is to help software developers to normalize any data based on functional dependency and to support for optimization of data for their systems.