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PROBLEMS OF DATA REPLICATION IN DISTRIBUTION SYSTEMS

Dadamukhamedov Alimjon*

*Senior Lecturer,
Department of "Modern information and communication technologies",
International Islamic Academy of UZBEKISTAN
Email id: chinororg@mail.ru

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ABSTRACT

In this article, we will compare the replication methods available in database systems.These problems are to maintain consistency between the actual state of the real-time object of the external environment and its images reflected in copies distributed across multiple nodes. Nowadays, modern applications of devices connected to the Internet are experiencing rapid growth and variability of transactional workloads. Database replication should increase access to databases to calculate efficiency. The replication algorithm allows high-speed distribution of changes in the database to all replicas, which ensures the robustness of all replications. However, a fragmented routing algorithm is used to consistently balance the load of incoming transactions on existing instances. Shows how it can perform almost linear measurements of workload for databases. To expand the idea of large-scale database modeling, we will consider improving the consistency and scalability of data using an algorithm that is applied and available in the database. Individual levels of iteration to prevent overuse of resources, all of which together help solve the problem of scalability for distributed real-time database systems.

KEYWORDS: *Method, Replicated database, Replicated Database Design, Replicated database protocols, Transactional replication, Data consistency and Scalability, Active and Passive replication, Recognition.*

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