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## Mathematical modeling of heterogeneous distributed data storages

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The work reviews a development of mathematical solution for modeling heterogeneous distributed data storages. There is a review of different approaches of modeling (Monte-Carlo, agent-based modeling). Performance analysis of systems based on commercial solutions of Oracle and freeware solutions (Cassandra, Hadoop) is provided. It's assumed that developed tool will help optimize data distribution between nodes and eliminate problem parts of complex system.

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