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EXPERIMENTAL EFFICIENCY VERIFICATION OF AN ACCESS METHOD TO THE STORAGE DATA ON THE SPARK PLATFORM USING CASCADING BLOOM FILTER

Using TPC-H Q3 query there was made a comparison of two access methods to the storage data: the developed method with the cascading Bloom filter and without using the Bloom filter. To this end, there were conducted full-scale experiments in a cluster environment of 8 nodes on the Apache Spark parallel computing platform. The results of the experiments confirmed the advantages of the developed method with the cascading Bloom filter.

Keywords: Spark SQL, Bloom filter, TPC-H, Q3 query, intercomparison of methods.

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