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Improving the robustness and performance of parallel joins over distributed systems

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Improving the Robustness and Performance of Parallel Joins over Distributed Systems

- We introduce the state-of-the-art parallel joins and analyze their possible performance issues in the presence of data skews.
- We introduce the query-based join, a novel parallel join approach for handling data skew in distributed architectures.
- We propose an efficient and robust join algorithm referred to as PRPQ (partial redistribution & partial query) which is capable of higher performance than current techniques.
- Our experimental results demonstrate that PRPQ always outperform the state-of-art approach.

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