Abstract

Query optimization is a challenging task in database. Many different types of techniques are used to optimize queries. Heuristic Greedy, Iterative Improvement, and Ant Colony algorithms are used in query optimization. Ant colony algorithms are used to find optimal solutions for different types of problems. In this paper, we modify the Ant Colony algorithm for query optimization and show the comparison of execution time between Heuristic-based optimization, Ant Colony Optimization, and Modified Ant Colony optimization algorithms. After implementing existing algorithms and modified Ant Colony optimization algorithms, we found that the modified Ant colony algorithm took less computation time compared to other algorithms.

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Query Optimization, Heuristic-based optimizers, Ant-Colony, Modified Ant Colony.