Abstract

Query optimization is a challenging task in databases. Various techniques are used to optimize queries. Heuristic Greedy, Iterative Improvement, and Ant Colony algorithms are employed in query optimization. The Ant Colony Algorithm is utilized to find optimal solutions for different types of problems. In this paper, we modify the Ant Colony Algorithm for query optimization and will present a comparative analysis of the execution time between Heuristic-based optimization, Ant Colony Optimization, and Modified Ant Colony optimization algorithms. Following the implementation of these existing algorithms and the modified Ant Colony optimization algorithms, we discovered that the modified Ant colony algorithm takes less computation time compared to the other algorithms.

References

Query Optimization using Modified Ant Colony Algorithm


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