Abstract

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

References

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**Index Terms**

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