Review on Query Optimization for Databases in Cloud Environment: A Survey

The paper "Query Optimization for Databases in Cloud Environment: A Survey" by Archana Bachhav, Vilas Kharat, and Madhukar Shelar provides a comprehensive survey of the various techniques used for query optimization in cloud databases. The paper covers a range of optimization techniques that can be used to improve the performance of cloud databases.

The authors begin by giving a general overview of cloud computing and databases before moving on to talk about the various difficulties involved in query optimization in cloud databases. The paper then provides a thorough analysis of a number of optimization strategies, including query caching, query rewriting, materialized views, indexing, and partitioning.

The thoroughness of the survey is one of this paper's strengths. A wide range of optimization techniques have been covered by the authors, who have also given thorough explanations of each technique. The authors have also offered a critical evaluation of each technique, highlighting its advantages and disadvantages. The paper's use of case studies and examples to demonstrate the value of various optimization techniques is one of its other strong points. Readers can now have a practical understanding of how these techniques operate thanks to the authors' presentation of real-world scenarios in which each technique has been successfully used.

The paper could be strengthened in a few places, though. The first issue is that each optimization technique's underlying algorithms are not fully explained in the paper. Despite the fact that the authors do give some fundamental information about the algorithms, a more thorough explanation would have been beneficial for readers who are not familiar with the methods.

 Second, the paper doesn't fully compare all of the optimization methods. Although the authors compare the techniques' advantages and disadvantages, a more thorough comparison of the techniques would have been useful for readers who are trying to decide between various optimization techniques.

Overall, "Query Optimization for Databases in Cloud Environment: A Survey" is a well-written and informative paper that provides a comprehensive overview of the various optimization techniques used in cloud databases. The paper is particularly useful for researchers and practitioners who are interested in improving the performance of cloud databases.