Abstract

Apriori algorithm is a classical algorithm of association rule mining and widely used for mining association rule which uses frequent item. This classical algorithm is inefficient due to so many scans of database. And if the database is large, it takes too much time to scan the database. To reduce these two limitations, this paper proposes a new technique called TR-BAM for mining frequent patterns in large databases by implementing a Bit Array Matrix. The whole database is scanned only once and the data is compressed in the form of a Bit Array Matrix. The frequent patterns are then mined directly from this Matrix. Appropriate operations are designed and performed on matrices to achieve efficiency.

References

Mining of Frequent Itemsets with an Enhanced Apriori Algorithm

- Agarwal, R. Agarwal, C. and Prasad V., A tree projection algorithm for generation of frequent item sets. In J. Parallel and Distributed Computing, 2000

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