Abstract

In order to update k-anonymous and confidential database, the suppression based and
generalization based updating protocol technique has been proposed. These protocols check
whether the database inserted with the new tuple is still k-anonymous without knowing the
content of the table and database respectively. But these methods will not work if initial
database is empty. Also, if the incoming tuple that fails the test of these updating protocols,
there is no solution for which action to be taken. So, in this paper we propose two solutions
based on pending tuple set (i.e. a collection of all tuples that fails anonymous property of
database) namely the private extraction of k-anonymous part of pending tuple set or
k-anonymization of pending tuple set by privately suppressing entries.

References

  Journal on Uncertainty, Fuzziness and Knowledge-based Systems, 2002


**Index Terms**

Computer Science  
Databases

**Keywords**

Anonymity  
Data management  
Privacy  
Secure computation