

285. INCREMENTAL DATA ANONYMIZATION UNDER PRIVACY PRESERVING ACCESS CONTROL MECHANISM

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Access control mechanisms are used to ensure that sensitive information is available to authorized users only. When Privacy Protection Mechanism (PPM) is not used, authorized users can misuse the sensitive information and the privacy of the consumer is compromised. Privacy requirement is satisfied by PPM which uses suppression and generalization approaches to anonymize the relational data. K-anonymity or l-diversity is used to anonymize and satisfy privacy requirement. However, privacy is obtained by the precision of the authorized information. The anonymity technique can be used with an access control mechanism to ensure both security and privacy of the sensitive information. In this paper Role based access control is assumed. The access control policies define selection predicates to roles. Then we use the concept of imprecision bound for each permission to define a threshold on the amount of imprecision that can be tolerated. So the proposed approach reduce the imprecision for each selection predicate. Anonymization is carried out only for the static relational table in the existing papers. In this paper privacy preserving access control mechanism is applied to the incremental data.

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