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RESEARCH ARTICLE

Privacy Control Methods for Anonymous & Confidential Database Using Advance Encryption Standard

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Abstract— Many Government agencies , business and organizations are willing to collect large amount of data containing the sensitive information about individual such as income, diseases & symptoms also wants to release or share that data to other parties for research work. Thus release of such data with sensitive information (microdata) violates individual's privacy. To protect sensitivity or confidentiality of shared data, it often needs to be sanitized before it can be distributed and analyzed. A popular and effective method for sanitizing data is called data anonymization. Data anonymization is the process of replacing the contents of identifiable fields (such as IP addresses, usernames, Social Security numbers and zip codes) in a database so records cannot be associated with a specific individual, project or company. There are various anonymization techniques that can be used such as Data encryption, randomization, etc. In this paper we observe various privacy conserving techniques with their advantages as well as disadvantages also presents suppression & Generalization based approach for privacy preserving simultaneously propose a system "Privacy conserving of anonymous & confidential Database using AES approach" that are more strong to achieve privacy.

Key Terms: - Privacy preservation; anonymization; confidentiality; suppression; Generalization

Full Text: http://www.ijcsmc.com/docs/papers/August2013/V2I8201347.pdf