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PARTIAL ENCRYPTION AND PARTIAL INFERENCE CONTROL BASED DISCLOSURE IN EFFECTIVE COST CLOUD

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ABSTRACT

Cloud computing is one of the most pre-dominant paradigm in recent trends for computing and storing purposes on data-intensive applications without infrastructure investment. It introduces an optimized approach towards management flexibility and economic savings for distributed applications. As an advantage in the computing world and storage resources offered by cloud service providers, the data owners must place their valuable information into the public cloud servers which are not within their trusted domains. Along the processing of such applications, a large volume of intermediate data sets that get generated are stored so that it need not be recomputed. Privacy-preserving database in cloud would allow a database owner to outsource its encrypted database to a cloud server. Due to this, data security and privacy of data is one of the major concerns in the cloud computing world. Encryption of data sets of all the content in cloud is widely adopted in existing approaches to address this challenge. But encrypting all intermediate data sets are neither efficient nor cost-effective because it is very time consuming and costly for data-intensive applications to en/decrypt data sets frequently while performing any operation on them. Even evaluated results demonstrate that the privacy-preserving cost of intermediate data sets is significantly high on existing ones where all data sets are encrypted. The proposed method has an optimized solution of restricting the data based on the request from the users. So that, predicting the data cannot be done at any case, this provides a highest level of security to the system.

KEYWORDS: Cloud Computing, Privacy Preserving, Intermediate Data Set, Inference Control, Partial Encryption