A statistical database (SDB) is a database that contains a large number of individual sensitive records, but is intended to supply only statistical summary information to its users. A SDB suffers from the inference problem, a way to infer or derive sensitive data from non-sensitive data. In this study, two security techniques of SDBs, Query-Set Size and Fixed-Data Perturbation are selected to review and compare each other. As a result, no one is a perfect solution for the inference problem. The selection of technique depends on some factors mentioned in this paper.

References

A Comparative Study of Query-Set Size and Fixed-Data Perturbation as Two Techniques to Secure Statistical Databases

Edition.


Index Terms

Computer Science

Security

Keywords

Inference problem query-set size fixed-data perturbation