Basic Security requirements

The basic security requirements of database help address the basic problems of access control, exclusion of spurious data authentication of users and reliability. The basic requirements are;

Physical database integrity the data of a database are immune from physical problems.

Logical database the structure of the database is preserved.

Element integrity the data contained in each element are accurate.

Auditability it is possible to track who or what has accessed the elements in the database.

Access control a user is allowed to access only authorized data and different users can be restricted to different modes of access.

User authentication every user is positively identified both for the audit trail and for permission to access certain data.

Availability users can access the database in general and all data for which they are authorized.