

ITFdn130: Assignment 5

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Introduction

This paper explains what View is as well as Functions and Procedures and the difference between them.

Views

One would use a view to create an abstraction layer between the data and a table to protect the integrity of the database. Views are read only and thereby able to protect the tables from modification and the data also may not be modified. Views can also be used for granular access to data in tables. For example, private information in a table may be made only accessible to a group of users like an HR department. This prevents unauthorized access to certain portions of the data and prevents reading it by users without permissions to do so. This can be used by implementing Deny and Allow rules.

Procedures and Functions as well as Views

Procedures, Functions and Views all can read the data from a table, however Views cannot write changes whilst Procedures and Functions are able to perform complex manipulation of the data in the database and write changes to a table or Database. Views are generally static however Functions and Procedures are both Dynamic. Unlike Views, Functions can support input Variables the form a parameters thus allowing the user to change the results dynamically. Both support input parameters but only procedures also support output parameters unlike functions

Conclusion

Views allow granular read access to data creating an abstraction layer to the database. Procedures and Views can also be used to create an abstraction layer. Procedures and Functions allow parameters and are more dynamic and can be used for more complex operations as well as allowing write operations and transactions in the database.