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Foundation of Databases & SQL programming
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https://github.com/eburt23/DBFoundations

View, Function, and Stored Procedure.

Database management systems have a set of rules to enhance the data search. The instructions on how to maximize the data extraction uses a very specific set of commands and are referred to as views, function, and stored procedures. I will attempt to explain each command, but first we must understand why SQL uses views.

Views are used to recycle SQL statements, and to simplify long SQL statements that uses sub queries, joins and other complicated code. Views are also used to secure parts of the data and used to secure part of the database table and are considered a virtual picture of a database; users do not have direct access to the database when viewing data with views.

The similarities between functions and views -- functions are referred to as user defined functions (UDFs) like views, function use keywords to create select statements. One important keyword is the returns commands, it assists by returning individual values from the database while views do not have this capability, views will return the entire table from the database. Another difference is functions use parentheses in the select statements and is required after naming the database table and are used to define parameters within the function statement.

Stored procedures also work in the same manner as views and functions meaning it returns data from the database. Stored procedures allow users to work directly with the procedure instead of the databases it also provides security to the database. In addition, stored procedures are more powerful than a view or function because multiple SQL statements can be stored within the procedure allowing SQL code to execute/call – several statements at one time.

Finally, these are just a few similarities and differences between Views, Functions and Stored Procedures. As I continue learning the fundamentals of using SQL, it will become easier to articulate when and where to invoke these statements.