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**Course:** IT FDN 130 A Wi 22: Foundations of Databases & SQL Programming

**Assignment:** Assignment06

**GitHub:** <https://github.com/amblake4/DBFoundations>

Assignment 06 – Views, Functions and Stored Procedures

When to use SQL View, differences & similarities between View, Function, and Stored Procedure.

# Introduction

In this essay, I explain when you would use a SQL View, as well as the differences and similarities between a View, Function, and Stored Procedure.

# Use of a SQL View

You use a SQL View when you want to save a specified SELECT statement (not the data itself) under at given name to the actual database. It allows users to perform analysis off of an abstraction layer, rather than the database tables. This offers protection for the tables, but also provides the user a way to simplify complex queries and allow for the limiting of columns / rows.

# View, Function, Stored Procedures

Views, Functions, and Stored Procedures have similarities and differences. A Function is similar to a view in that it can return a table of values, but it can also return a single value. Different from a View, a Function can use parameters to change the results of a query. Similar to both, a Stored Procedures are also a Named Set of SQL Statements. For example, each can return a table of specified values. The difference of a Stored Procedure from a View of Function is that it must be Executed, whereas Views and Functions are Selected. A Stored Procedure also allows the ability to have many statements, that don’t have to be Selects, they can be Insert, Updates, or Deletes as well. The other subtle difference between each is their syntax rules. However, at the end of the data a View, Function, and Stored Procedure are all saved within the database.

# Summary

In summary, we have reviewed SQL Views, Functions, and Stored Procedures. They allow us to save SQL statements to the database. .

# Sources

1. Root, Randal. *Notes from IT FDN 130 A Wi 22: Foundations of Databases & SQL Programming: Module 06 – Views, Functions, and Stored Procedures.* Accessed February 2022.