

Andrew Martinez

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Assignment 06

# Assignment 06 – View, Functions, and Stored Procedures

## Introduction

In this document I will be discussing the uses of views, functions, and stored procedures, as well as their differences and similarities.

## Purpose of Views

SQL Views are used to create an abstraction layer between the database and anyone who might need to access it. It is especially helpful for creating curated SELECT statements for people or applications that will need to query the same data repeatedly.

## Views vs Functions vs Stored Procedures

Views, Functions and Stored Procedures are similar in that they are all pre-made SQL statements stored as files in the database, made with the intention of aiding in efficiency. Views are different from the rest in that they will only ever be SELECT statements. Functions are different from Views in that they can also be created with parameters. These parameters allow the function to take varying inputs depending on the needs of the situation. Stored Procedures are the most flexible of the operations as they can SELECT, INSERT, ALTER, UPDATE, etc. They are able to perform any SQL function and are therefore useful for saving operations that are going to be modifying data.

## Summary

In summary, this week we learned about the various forms of saved SQL statements that can be used to speed up or streamline the process of interacting with SQL. Views, Functions, and Stored Procedures have some similarities in use and ability, but differ in ways that make them each useful in their own way.