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Database Foundations

Assignment 06

**Week 6: SQL Views, Functions, and Store Procedures**

**Introduction**

In this document I will be discussing when to use SQL Views, Functions, Stored Procedures and what the similarities and differences are between them.

**When to use a SQL View**

A SQL View can be used when you would like to save your select statements for repeated use. One way to increase security is to create a view and deny public access to a table and grant public access to the view. Views are like a virtual table and the select statement within a View is ran each time the View is ran.

**Difference and Similarities between Views, Functions, and Stored Procedures**

The similarities between Views, Functions, and Stored Procedures are that they can all be used to save select statements for reuse.

A difference between a View and Function is that a Function can be used with parameters and a View cannot be used with parameters.

Differences between a View and Stored Procedure is that a View is used for selecting data and cannot accept parameters or make changes to tables, where a Stored Procedure can be used to alter tables and can accept parameters. A Stored Procedure can return many variables as opposed to a Scalar Function being able to return one.

**Summary**

In summary, Views, Functions, and Stored Procedures can be used to save a complex statement to be used later and they can be reused many times. Views, Functions, and Stored Procedures can provide some security by not providing direct access to the tables in the database.