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August 15, 2020

Foundations of Databases Class

Assignment 6 - Written Summary for Week 6

<https://github.com/kari683/DBFoundations>

Views, Functions and Stored Procedures

## Introduction

This paper will provide an overview of Views, Functions and Stored Procedures.

## When to use a SQL View

A SQL view is used to save complex code in the database. Using a view can also be a security measure so database users don’t have direct access to the table; but use a view instead to access the data they need. It is also possible to apply permissions to views so users can only access some data. A “Base” view will show all the data from the table but will not give access to the actual table, just a view of the table. It is important to note that creating a view does not actually run the Select statement.

## Similarities and Differences between Views, Functions and Stored Procedures

Views, Functions and Stored Procedures are all ways to save Select statements. Views and Functions are “Named” Select statements that are saved in the database. Stored Procedures can be used on more than just Select statements. Functions can return a single value or an entire table. Functions can also use parameters to changes the results of a query. It is also possible to apply a Where clause to a View statement. It is entirely possible to get the same results using a View, Function or Stored Procedures on the same set of data.

## Summary

This paper provides an overview of Views, Functions and Stored Procedures.