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Course: Foundations Of Databases and SQL Programming

https://github.com/tnyen102/DBFoundations

# DB Foundation Assignment 06

# Introduction

This week, I learned about views, functions, and stored Procedures to help simplify complex SQL code. I learned the similarities and differences between the three and when each one would be more appropriate to used. I also learned about GitHub which is a popular site that is used to store and share code with other developers/users.

1. Explain when you would use a SQL View.

A SQL view that is used to extract data for reporting purposes this can also be called a Reporting View. We would use a SQL view to simplify a complex SQL code by querying it with a simple Select statement instead of writing out the complex code. Another reason to use a SQL view is to provide data abstraction and consistency.

1. Explain what are the differences and similarities between a View, Function, and Stored Procedure.

As mentioned, a view that is used to extract data for reporting purposes is called a reporting view and it is used to simplify complex code into simple Select statement. There are 2 basic types of functions; one that return a table of values and the other that return a single value. A stored Procedures are a named set of SQL Statements. All 3 of these are very similar but depending on the complexity and your use case, one might be more appropriate then the other.

# Summary

This module and assignment taught me how to use the SQL views, functions, and stored procedures to create views and retrieve the data. I also get to expand and practice more on SQL script such as joining multiple tables and using a subquery to retrieve the results and organize it based on my criteria. I was also introduced to GitHub which is an important code repository to share with other developers. The important lesson in this module is to learn and understand about View, Function, and Stored procedure.