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GitHub URL: <https://github.com/ramr24/DBFoundations2022>

Assignment 06 – Write-up

Details:

- 1. Explain when you would use a SQL View.*
- 2. Explain the differences and similarities between a View, Function, and Stored Procedure.*

Introduction

In this assignment, I will explain the scenarios to use a SQL View. Finally, I will explain the differences and similarities between a View, Function, and Stored Procedure.

SQL View

A SQL View is any view used to extract data for reporting purposes called a Reporting View. A SQL View is typically used to save complex Select statements. A SQL View should be used to hide complex queries and also show selected columns to the users.

Differences and Similarities between View, Function, Stored Procedure

Views represent virtual tables, but views cannot dictate how the data is sorted. Functions are often called User Defined Functions (UDFs). There are two types of functions; functions that return a table of values and functions that return a single value. A function can use parameters to change the results of a query, but a view cannot do this. Stored procedures (Sprocs or Procs) are a Named Set of SQL Statements. Stored procedures can accept parameters and modify the tables whereas a view cannot do this.

Summary

A SQL View is an abstraction layer which protects the database if any changes need to be made internally. Views are limited due to not being able to accept parameters or modify the tables. However, functions and stored procedures can accept parameters and modify the tables as needed.