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Foundations of Databases

Assignment 06

GitHubURL: https://github.com/KyLim1026/DBFoundations

Views

## **Introduction**

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

## **When you would use a SQL View?**

When you decide to save your select statements within a database, you would use SQL View. SQL View is saved query. Once you create it, you don’t need to rewrite the same query. Save it to a database and run the existing view query. This will simplify complex queries for users. Another useful use is SQL View provides powerful and flexible security by hiding parts of database from certain users.

## **Differences and similarities between a View, Function, and Stored Procedure**

The similarities between a View, Function, and Stored Procedure are used to save them in a text file within a database for reuse and use them repeatedly. The differences are below:

* A View does not accept parameters. It can contain only one single SELECT query. Most importantly, a View cannot perform modifications to any table
* A Function can use parameters to change the results of the query
* A Stored Procedure accepts parameters. It can perform modifications to one or several tables
* You can use temporary tables in stored procedures, but not in functions

## **Summary**

In this module, I learned how to use SQL View and little about a Functions and Stored Procedures by exercising assignment. I believe SQL View will simplify complex queries for novice like me.