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**Foundations of Databases and SQL Programming**

**Assignment 06**

[**https://github.com/Bk-Leo/DBFoundations**](https://github.com/Bk-Leo/DBFoundations)

**Module 6 – Views, Functions, and Stored Procedures**

**Introduction**

This paper discusses the usage of SQL View as well as the similarities and differences between a View, Function, and Stored Procedure.

**SQL View Usage**

SQL View is a virtual table with rows and columns like an actual table. We use a SQL view when collecting data from one or multiple different tables and display it in a single table. The view may contain the entire table or specific rows filtered by a condition.

**Similarities and Differences b/n a View, Function, and Stored Procedure.**

*Similarities:*

One of the similarities between View, Function, and Stored Procedure is that they give a level of security to the database by encapsulating the unwanted data or query from the user.

*Differences:*

The difference between View and Stored procedures is that a view is a virtual table to display data from a table while a Stored Procedure is a set of SQL instructions that need to be executed.

The difference between a Function and a Stored Procedure is that a Function returns a single value while a Stored Procedure may or may not return a value.

The difference between View and Function is that a Function may use parameters to change the results of the SQL query as it is executed, while a View uses a WHERE clause to set its parameters.

**Summary**

In this paper, we discussed how we can use SQL View to create a virtual table combining data from different tables. We also discussed the similarities and differences between a View, Function, and Stored Procedures.