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Assignment 6

# **Introduction to SQL Views**

**Introduction**

This paper will explore the basic similarities and differences between SQL Views, Functions and Stored Procedures.

**SQL Views**

A SQL View is a saved Select statement that returns back data from one or more tables in a database in a single table. You may use a SQL View to save a long, complicated piece of code that you have developed, want to save, and you can run with only a short piece of code. A SQL View also adds a level of abstraction when interacting with a database. You can establish SQL Views that users can interact with regularly instead of interacting directly with the data and tables directly. This can make a complicated database system much more approachable to a user. Through establishing views, you can also limit access to restricted or sensitive data to user groups without changing the structure of the table or database itself.

**SQL Functions and Stored Procedures**

Views, Functions, and stored procedures, while they bring similar functionality, are all constructed slightly differently and bring different functionality:

SQL Functions are saved sets of commands that can return back a set of data in a table or a single output. There are a number of SQL Functions that are already established. A Function can be used in any SQL command, and you can add parameters to a SQL function, which you cannot do with a view.

Stored procedures are another way to save a set of SQL code. These are stored as objects on the database. Stored procedures are different from SQL functions because they can only be used by a specific command.

Views, Functions, and stored procedures, while they bring similar functionality, are all constructed slightly differently and bring different functionality.

Conclusion

SQL views, functions, and stored procedures are all saved sets of SQL code that can bring simplicity to the user and can reduce writing repeated code. While there is a good amount of similarity between view, functions and stored procedures their differences bring many options for a database manager or user.