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Foundations of Databases & SQL Programming

Assignment 06

Views, Functions, and Stored Procedures

Introduction

In this assignment, we will discuss a Views, Functions, and Stored Procedures.

SQL Views

A SQL View is a saved simple or complex Select statement. Views only represent a certain portion of the data that we want users to see. Views provide more secure data because users aren't able to make changes to the database.

Functions

A Function is another way to save a simple or complex Select statement. A Function can take one or more parameters and return a single value or a table of values. There are SQL Server built-in functions and custom functions (User Defined Functions).

Views and Functions both use Select statements. However, the difference between a function and a view, is that a function can use parameters to change the results of the query.

Stored Procedures

Stored Procedures are a named set of SQL statements just like Views and Functions. Stored Procedures have the same syntax as SQL Views and Functions, but with Stored Procedures, SQL code is *Executed* instead of *Selected*.

Summary

Views, Functions, and Stored Procedures are used to save code in a database, simplify complex code, and are important tools to use for selecting report data.

References

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