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Course: File demonstrates how to use Views

Mod06-Assignment 06

SQL Views

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Introduction

This document introduces the sixth assignment, focusing on the fundamental concept of SQL views for performance optimization and explaining the differences and similarities between a View, Function, and Stored Procedure. Additionally, I found Mr. Randel Root live sessions to be helpful for understanding SQL for this week assignment.

Views

When you have complex queries involving multiple joins, aggregations, or calculations, creating a view can simplify the code. Instead of writing the complex query repeatedly, you create a view with that query, making it easier to reuse. Views can control who can access or view their contents by leveraging database permissions and access control mechanisms.

Functions

A function is a block of reusable code that performs a specific task or a set of instructions. Functions are defined using the **def** keyword followed by a function name, parentheses **()**, and a colon ':' to indicate the beginning of the function block. Once defined, functions can be called by their names, and arguments can be passed into them. Utilize commands like GRANT and DENY managing access to views in a database system.

Parameters and Arguments

Views, functions, and stored procedures are database objects sharing some similarities. Views act as virtual tables, offering a simplified representation of data for querying, while functions perform computations or return specific values based on inputs. Stored procedures, unlike views and functions, are sets of precompiled SQL statements capable of executing complex operations. While views and functions primarily retrieve data and are often read-only, stored procedures can modify data.

Summary

This document explains when to use a view and what are the differences and similarities between a View, Function, and Stored Procedure. The knowledge gained from this week's assignment was an essential part of understanding SQL programming

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