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Foundations of Databases & SQL Programming
Assignment06

Views, Functions and Stored Procedures

Introduction

This paper explains when to use a SQL View, the differences and similarities between a View, Function, and Stored Procedure is explained.

When to use a SQL VIEW

A SQL View is used, when there is a need to organize data, so that users or groups of users find it intuitive or natural. It is used when access to data is to be restricted, so that users can see and change only the data they have to change and not anything else. SQL Views add a layer of abstraction.

A SQL View is used to generate reports by summarizing data from different tables of a Database.

Differences and Similarities between a View, Function and Stored Procedure

All Views, Functions and Stored Procedures are used to save all the SQL statements (SELECT statements, etc.), inside a Database file, so that they can be used repeatedly. The SQL Views and Functions, have SELECT statements, that have names and their code is stored in a Database. On the other hand, Stored Procedures can have statements other than SELECT statements, i.e. they can have SELECT statements and any other statements too. While Views do not take parameters, Functions and Stored Procedures can have parameters. The syntax of a View, a Function and a Stored Procedure is different. The way to execute or run each one is different too.

Summary

In this paper, when to use a SQL View was explained. The differences and similarities between a View, Function, and Stored Procedure was explained.