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Assignment 6 - Views

Introduction:

The following text details the responses to Assignment Six's questions regarding when you would use a SQL View and what the differences are between Views, Functions, and Stored Procedures as part of the course IT Fdn 130 in the UW Professional and Continuing Education program. This topic is highly important to me in my journey to learn SQL because before this course, I never understood why someone would use a View when they could just call a table even though views have many benefits to them that I now understand .

Body:

Question One: Explain when you would use a SQL view.

You would use a SQL view when some of the queries you are dealing with are larger in length and more complex. Instead of having to keep re-typing difficult queries and risk making typos and data modifications, you can store the query within the view.

Question Two: Explain what are the differences and similarities between a View, Function, and Stored Procedure.

A view is a virtual table which can join multiple columns from different tables as one singular table. A stored procedure is a database query that implements security protocols like grants, revoke, deny, etc. onto the database. Functions serve a similar purpose to views but functions can accept parameters and views are unable to. Functions are used to calculate something based on input, while procedures are chain of commands executed in a specific order. Views and functions are both updatable and they both can't contain multiple statements. Views have some of the security benefits that stored procedures carry but stored procedures are overall more secure.

Conclusion and Summary:

This writeup discussed when you would use a SQL view and the differences and similarities between a view, function, and stored procedure.

Citations:

https://learnsql.com/blog/sql-view/- links to an external site
https://blog.devgenius.io/views-vs-functions-vs-procedures-sql-91f2e16d0546#:~:text=Summary%3A%20Views%20and%20Functions%20almost,do%20it%20with%20a%20View. - links to an external site