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GitHub: <https://github.com/Dhafarrabhan/DBFoundations>

Views in SQL

Introduction

In any database, data security and maintaining data access is important which can be specified using views.

Explain when you would use a SQL View.

Views are structured to house a code that can be used to create a specific table. Views are virtual tables that returns a set of data based on the select statement build into that view. Views are used for security reasons to limit the access to the entire database using grant/revoke/deny clauses and to save the query for future use. The other reason to use the views is to limit the changes that can be implemented to the entire database by making changes to the view instead.

The differences and similarities between a View, Function, and Stored Procedure

Views: they are similar to inline table functions however it can’t be used with parameters. It is similar to stored procedures in allowing programmers to select access previlage and limit their data from other users.

Functions: one of its types is the scalars function which is a query that retuns a single value.using this Schemabiding may improve its performance. The other type is the inline table functions which doesn’t return a single value and it is better and faster than the scalars functions.

Stored Procedures: Stored procedures are similar to multi-statement value functions however, the results can’t be called in another query.

Summary

With all the available resources and the vedios I’ve watched on this topic, I still feel it is confusing and I’m not sure when to use each option. Hopefully with more practice over the next weeks, I’ll be able to difrentiate between those three topics.

Sources:

<https://bertwagner.com/posts/sql-server-stored-procedures-vs-functions-vs-views/> by Bert Wagner (2019)