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Assignment 6
<https://github.com/yiy4/DBFoundations>

SQL View

Introduction

In a good database design, abstraction layers are used to protect data from inadvertent alterations as well as secure private information and improve user experience. One layer is the **view**, which creates a level of abstraction by data presentation.

Topics

When To Use SQL View

First, the **view** allows data administrators to create a 'base' or 'basic' view that can limit others' direct access to tables. Coupled with command **with schemabinding**, which prevents the parent table from changing if the child view will break with the update prevents, this abstraction layer creates a safety layer that lets individual see the data without the ability to make irreversible changes to it.

Moreover, administrators can also create 'partitioned' data to deliberately show specific data for ease of use or hide sensitive information to not compromise privacy. Especially with commands **deny** and **grant**, the **view** allows differing levels of permissions without completely denying access.

Differences and Similarities between View, Function, and Stored Procedure

Other abstraction layers, **function** and **stored procedure**, are similar to the **view** in that they are both saved select statements in databases rather than text files. However, these methods differ in that they allow for filtering parameters to be included in their definition. Moreover, **stored procedures** allow for not only storing select statements, but other statements as well—such as insert, update, and delete.

Conclusion

The **View** is an abstraction layer that allows for better management of data security while sharing. Versatile in application, data administrators can build many levels of abstraction by using it creative ways.

Works Cited

Root, Randal. "Creating Views Functions And Stored Procedures Part 1." *YouTube*, YouTube, 10 Aug. 2020, https://www.youtube.com/watch?v=N_rPXAj-74o&list=PLfycUyp06LG8cefs0gA38wO7nFrRjD5Ad&index=2. (external site)

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