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Course: IT FDN 130 A Su 24: Foundations of Databases & SQL Programming

Assignment 6 – Views

Introduction:

In this module I learned about the potential uses for views and how they can be used to save functions, especially when creating the code can become a tedious task. The virtue of views is that one can use a view in order to save their code in case there is a change in the script. It allows users with limited access to interact with a predetermined set of data which can also improve the security of a database. From a purely utilitarian perspective, using a view in a multi-user database can help prevent massive changes from happening that render the entire database useless until further fixes are made.

Topic: Explain when you would use an SQL View.

An instance when I would use an SQL view would be when I am dealing with a rather tedious or longwinded code that I do not want to have to alter. By using a view, we can allow the users to interact with specific data that is allowed by administrators and prevent private data from being accessed by the public. This can be especially useful when you want to save time on retyping a query that is very long. You can use a view to save functions and queries so that a specific query can be accessed much faster in the future.

Topic: Explain are the differences and similarities between a View, Function, and Stored Procedure:

The differences between a view and Stored Procedure are that Views are a smaller representation of the original table that the data for the view is being sourced from. A stored procedure can be a complex action that is executed with a simple name, similar to how a view is. The difference is that a stored procedure can be used to alter or update a table, whereas a view cannot make any changes to the original table. Views and Functions are similar to a stored procedure because it performs an action or change to a dataset. Functions are different because they only return a single value for each datapoint.

Conclusion:

In conclusion, the use of views, functions, and Stored Procedures can be very important to saving time and energy when building an effective and efficient database. I think that using stored procedures will be helpful for altering data when dealing with data entry in the future. Having the ability to save the specific views and alterations to a dataset would be extremely helpful for someone when dealing with a lot of data or frequent changes to data.

GitHub: [jrday6/Assignment06\_JDay: Assignment06\_JDay writeup and code (github.com)](https://github.com/jrday6/Assignment06_JDay)