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Assignment 06:

1. Explain when you would use a SQL View.

2. Explain are the differences and similarities between a View, Function, and Stored Procedure.

Introduction

During Week 6, we learned about SQL reporting. Using View, Function, and Stored Procedure, scripts can be saved and reused when needed. This is particularly beneficial when the statements become lengthy and complicated.

1. Explain when you would use a SQL View.

A SQL view is used for several different reasons. The greatest benefit of using the View is that it simplifies and saves time. For example, if we need to use a join for multiple tables, users can query the view instead of writing the full SQL each time. The View is consistent, providing a standard report. It makes the readers understand more easily by hiding complicated logic.

2. Explain are the differences and similarities between a View, Function, and Stored Procedure.

The similarities between a View, Function, and Stored Procedure are the reusability of the SQL logic. View is a saved SQL query that acts like a virtual table. Function and Stored Procedure return a value or a table based on the saved scripts. The difference is that the View is often used for reporting purposes (e.g., hiding unnecessary columns incurred by the updates). Function is used mainly for calculations and returning values. A stored procedure is often used for data manipulation.

Summary

In summary, I learned that all SQL functions, stored procedures, and stored procedures have similarities but produce different outcomes with different purposes. Understanding the differences between these two elements is crucial for effective database management. This knowledge allows for more efficient coding practices and can lead to improved application functionality overall.