Name: Kim, Grace

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Course: IT FDN 130 A Au 22: Foundations Of Databases & SQL Programming

Assignment 06 Details: Views

Introduction

This assignment I will explain about how to create views.

Topic

1. Explain when you would use a SQL View.

When you have a long and complex query. To save time on retyping and running the query, you can store it in a view and simply run the SELECT statement on that view. By using a view instead of a query in an application, it is easier to make changes to the underlying table structure. Improved Security: By using a view to return data from tables instead of a SELECT, you can hide the WHERE clause or other columns to which you do not want the user to have access.

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

A view represents a virtual table. You can join multiple tables in a view and use the view to present the data as if the data were coming from a single table.

A stored procedure uses parameters to do a function... whether it is updating and inserting data, or returning single values or data sets.

A procedure is a routine that can accept arguments but does not return any values. A function is a routine that can accept arguments and returns one or more values. User-defined routine (UDR) is a generic term that includes both user-defined procedures and user-defined functions.

A Stored Procedure:

Accepts parameters

Can NOT be used as building block in a larger query

Can contain several statements, loops, IF ELSE, etc.

Can perform modifications to one or several tables

Can NOT be used as the target of an INSERT, UPDATE or DELETE statement.

A View:

Does NOT accept parameters

Can be used as building block in a larger query

Can contain only one single SELECT query
Can NOT perform modifications to any table

But can (sometimes) be used as the target of an INSERT, UPDATE or DELETE statement.

A Function:

A function is a database object in SQL Server. Basically, it is a set of SQL statements that accept only input parameters, perform actions and return the result. The function can return only a single value or a table. We can't use a function to Insert, Update, Delete records in the database table(s).

Summary

Through this assignment, I began writing SQL code with Create View. I still not sure when to use SchemaBidng code. Need to study more!

Creating Github account took so long time and it's not familiar website with me. Will study more! Thank you.