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February 28th, 2023

IT FDN 130A

Assignment 07

SQL Functions

Introduction

In this assignment, I will be discussing the purpose of using a SQL UDF. I will also be explaining the difference between scalar, inline, and multi-statement functions.

SQL UDF

A SQL UDF stands for user-defined function and is a way that you create a custom function. The two main basic functions of UDF are functions that return a table of values and functions that return a single value. Creating a UDF will save you time as you can continue to use it.

```
CREATE FUNCTION fProductInventoriesWithPreviousMonthCountsWithKPIs (@KPIValue int)
    RETURNS TABLE
    AS RETURN SELECT
        ProductName,
        InventoryDate,
        InventoryCount,
        PreviousMonthCount,
        CountvsPreviousCount
    FROM vProductInventoriesWithPreviousMonthCountsWithKPIs
    WHERE [CountvsPreviousCount] = @KPIValue;
GO
```

Scaler, Inline, and Multi-statement Functions

A Scalar function will return a single value. You can set up one or more parameters on table values to return a single value. Inline functions are a way to return a table of values. A multi-statement function is a way to return a table that has multiple select statements.

Summary

In conclusion, SQL functions are helpful to use as it will save you time from having to re-write code.