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Date: 2/28/2022

Course: IT FDN 130

<https://github.com/jayohhhh/DBFoundations>\_Module07

Assignment 7: Exploring SQL Functions

1. Explain when you would use a SQL UDF.
2. Explain are the differences between Scalar, Inline, and Multi-Statement Functions.

# Introduction

Functions allow for more functionality (pun intended) of SQL. Things that can be done with the other expressions are made much easier with the implementation of functions. Assignment 7 shows some of the utilities of functions and will continue to build on top of the SQL toolkit.

# SQL UDF

A UDF or a user defined function are custom functions which can be return a scalar or a table. A UDF is a general classification on all functions whether they are scalar, inline, or multi-statement. These functions will be discussed in the following section.

# Scalar/Inline/Multi-Statement Functions

Scalar functions are UDFs which return a single value. Inline UDFs are used to return a single table and only utilize one select statement to do so. A multi-statement UDF returns a defined table which are refined by several of the statements in this function. A multi-statement function allows the user the most control in the output as multiple statements can be used to alter the final table.

# Summary

This module provides insight into the use of functions in SQL code. The use of functions allows for more customizability into SQL and make for a faster return in output. The use of functions continue to compound on the learnings thus far and will sure to be a powerful statement to call.