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Assignment07

<https://github.com/BButcherUW/DBFoundations-Module07>

# SQL UDF

## Introduction

This document will explore UDF in SQL and the differences between Scalar, Inline, and Multi-Statement Functions

## UDF

UDF is a User Defined Function in SQL. It is a custom function that allows you to define reusable operations or calculations that you can use within SQL queries. A UDF can be used to return a single value or a table.

## Scalar, Inline, and Multi-Statement Functions

Scalar functions return a single value as a result, such as an integer, string, or date, based on the input parameters. Inline Functions return a table as a result. They are defined with a single SELECT statement and do not contain any procedural logic. Multi-Statement Table-Valued Functions also return a table as a result, but they can contain multiple SQL statements inside the function.

## Summary

In summary, we explored the UDF in SQL and the differences between Scalar, Inline, and Multi-Statement Functions