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# Assignment07

https://github.com/KHarrisonSqLFoundations/DBFoundations-Module07

# SQL Functions

## In this write up I will explain when one would use a user-defined function in SQL. I will also explain the differences between a scalar, inline, and muti-statement function.

## Why use a user-defined function

A user-defined function can be used to either return a single or scaler value as an expression or to store a complex set of code that you want to be able to use repeatedly without typing the same code for each use. User-defined functions can also be used for check constraints when you want to reference a column in another table

## The differences between scaler, inline, and multi-statement functions.

## A scalar function will only return a single value as an expression. An inline function will have only a single select statement and can return either a value or table similar to a view. A multi-statement function combines multiple select statements into one block of code using a Begin and End pair.

In summary one can use user-defined functions to return either a scaler value, return a value or table using an inline function or combine several statements into one block with a multi-statement function.