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Assignment 07

https://github.com/agibbs-uscg/DBFoundations-Module07

Module 07 – Functions

1. *Explain when you would use a SQL UDF.*

A SQL User Defined Function (UDF) evaluated an SQL expression set by the sure and returns as result. This return can be a single value scalar, or a table. A SQL UDF can me helpful when an expression will need to be conducted multiple times or a calculation or aggregation needs to be conducted.

2. *Explain are the differences between Scalar, Inline, and Multi-Statement Functions.*

A Scalar function returns a single value per expression and can be used in SELECT, WHERE, HAIVING and GROUP BY. A table function returns arow set instead of a single value. It can be called in FROM, JOIN, or SELECT. Tables are similar to Views, but tables allow for parameters. An inline table function returns a table that includes the entire query withing the RETURN statement. A Multi-Statement Function is more complicated that an inline function as it returns a table that has its variables defined and then data inserted into this new defined table. Inline tables allow users to perform function on base tables while Multi-statement Function require you to insert data into them and therefore can not perform calculation from base tables.