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Foundations in Database Management

Assignment 07

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**SQL User-defined Functions**

SQL user-defined functions (UDFs) are functions created within SQL by the user to solve complex queries for specific multi-use functions rather than using the SQL generated functions. UDFs will either yield a single value (Scalar functions) or a table value (Multi-statement functions). Users would use UDFs when they want to simplify code by using a stored, query specific function.

**Scalar, Inline, Multi-Statement Functions**

User-defined Scalar functions allow you to take one to two parameters and return a single value. User-defined Inline functions are similar to view functions in that it produces a table, but you are only able to use "select" functions with this UDF. Multi-statement function is similar to an inline function as it produces a table, but it is far more flexible with the functions used in executing this UDF.

**Conclusion**

There are numerous benefits to using UDF in code: simplifying the queries within your source code and allowing for quicker function utilization across multiple DBs.