FDN 130   
Assignment 07 writeup   
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**Intro**In this article, I will briefly define the reason to use a User Defined Function or UDF and the types of UDFs.

**Explain when you would use a SQL UDF**  
A UDF or User Defined Function can be used for multiple reasons in SQL Server. It is a saved code expression which is easily reusable, which is practical when it contains complex code or a lot of code to reduce re-typing and length of your code. A UDF can also work in data validation, as it can include checks which make sure entries are valid in a database, increasing date integrity. UDFs can also be used in data manipulation, to transform data before using it in reports or queries.   
  
**Explain the differences between Scalar, Inline, and Multi-Statement Functions**   
Scalar, Inline, and Multi-Statement Functions are the types of UDFs or user defined functions in SQL.   
A Scalar function returns a single value, typically from a select statement with a where clause. An Inline function returns a table and is similar to a saved View as it is a select statement but can also contain parameters. Multi-Statement Functions can return a scalar value or a table and can contain multiple SQL statements and variable declarations; these are typically used to perform more complex data manipulation.

**Summary**In this article, I introduced the three types of User Defined Functions and when they might be used.

**Citations**   
OpenAI ChatGPT, May 2023, chat.openai.com/chat: Aspects of this assignment were informed and created by queries I submitted to the ChatGPT