Microsoft SQL Server T-SQL Language Changes in SQL Server 2022

SQL Server 2022 is in preview in August 2022. There are a lot of changes in the database platform, however, below are some of the development changes regarding the T-SQL Language changes.

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Environment Configuration

Operating System	Microsoft Windows Server XXX
Environment	Azure\VM\Physical
SQL Database Version	Microsoft SQL Server 2022

Background

The below information gives a light overview of some of the T-SQL changes which have been added or enhanced in SQL Server 2022. It summarises DISTINCT FROM, DATE_BUCKET, GENERATE_SERIES, GREATEST/LEAST and STRING_SPLIT data additions. There are quite a few other language changes, however these are not covered in this outline.

Overview

DISTINCT FROM
This function is an equality comparison between two expressions, which return a TRU or FALSE result, even if there are NULL values.

DATE_BUCKET
This function returns the starting date of a specific period, based on the timeframe or "bucket" defined by the *origin* parameter. This may be useful when grouping or calculating periods.

GENERATE_SERIES
Generates a series of numbers within a given interval. The interval and the *step* between series values are defined by the user. It returns a single-column table containing a sequence of values in which each differs from the preceding by *step*. The name of the column is *value*. The output is the same type as *start* and *stop*.

GREATEST/LEAST
These functions will compare several parameters and return either the greatest or least of these parameters. The functions work with dates (requires supplied date typed parameters) or strings, the function ignores NULL values. All supplied parameter values require the ability to be implicitly converted.

STRING_SPLIT
A table-valued function that splits a string into rows of substrings, based on a specified separator character. This function has been available in previous versions of SQL Server; however, the previous versions did not allow for ordering, in the latest version the is an optional third parameter that can be defined to return the ordinal value. The separator defined cannot be a blank value.

References

https://docs.microsoft.com/en-us/sql/sql-server/what-s-new-in-sql-server-2022?view=sql-server-ver16#language

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Disclaimer: It is always recommended to log a support request with SQL Support for any SQL error you may encounter in your environment.