

Subtracting Two Dates

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https://advancedsqlpuzzles.com/

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In this GitHub repository I have two stored procedures (one that returns a table, and one that returns a VARCHAR) that can accurately return the difference between two dates.

Link to the GitHub repository below

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Anyone who has used the <u>DATEDIFF</u> has probably been frustrated by its limitations. To solve this problem, I have created two functions to subtract dates.

Same logic, one returns a table and the other returns a VARCHAR. Passing two dates to either of the functions return the 1) years, 2) days, 3) months, 4) minutes, 5) seconds, and 6) nano seconds between the two dates.

Inside this GitHub repository you will find the following SQL scripts:

1) FnDateDiffPartsChar.sql

• A script that creates the stored procedure FnDateDiffPartsChar

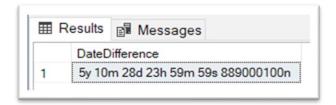
2) FnDateDiffPartsTable.sql

A script that creates the stored procedure FnDateDiffPartsTable

Here are some quick examples of their usage. Note the scalar valued function is used in the SELECT statement, and the table valued function is used in the FROM statement.

SELECT fnDateDiffPartsChar('20170518 00:00:00.0000001','20110619 00:00:00.1110000');

Returns the following:

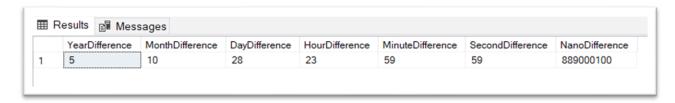


Note, you may wish to remove nanoseconds from the output. You can also modify the function to mimic the <u>CONVERT</u> function and pass a parameter to return a certain output style.

Running the same input on the table valued function:

```
SELECT fnDateDiffPartsTable('20170518 00:00:00.00000001','20110619 00:00:00.1110000');
```

Returns the following:



The End