

TruncateDateTime

Title TruncateDateTime

Description

This tool is a simple geoprocessing scripting tool intended to assist with temporal data preparation by truncating the date time object to set constants for better grouping and aggregation for time space cubes and other analysis methods. If the set times are -1, the current date and time will be used for that parameter.

Usage

There is no usage for this tool.

Syntax

TruncateDateTime (Input_Feature_Class, Date_Time_Field, New_Field_Name, Set_Year, Set_Month, Set_Day, Set_Hour, Set_Minute, Set_Second, Set_Microsecond)

Parameter	Explanation	Data Type
Input_Feature_Class	<p>Dialog Reference</p> <p>Is the input feature class or table for which a new time field will be added.</p> <hr/> <p>Python Reference</p> <p>Depends on</p> <p>https://docs.python.org/2/library/time.html#time.strptime.</p>	Feature Layer
Date_Time_Field	<p>Dialog Reference</p> <p>This is the ArcGIS date field that will be used to construct the datetime objects used in the created Pandas data frame. Years allowed by the tool will depend on python version. For example 2.7 cannot handle years before 1900.</p> <hr/> <p>Python Reference</p> <p>Generally the fields are selected from the feature class to be converted into a numpy array, then into a pandas data frame, then back to structured numpy array to be joined based on the object ID. This tool assumes there is an object ID to use to join to.</p>	Field
New_Field_Name	<p>Dialog Reference</p> <p>This is the name of the new text field that will be added to the feature class and then populated by a new truncated datetime. If the name already exists, then a unique one will be added.</p> <p>There is no python reference for this parameter.</p>	String
Set_Year	Dialog Reference	Long

This is the year you want to set all the datetimes to for the new field. If it is -1, it will use the current timeperiod determined by the datetime object.

There is no python reference for this parameter.

Set_Month	<p>Dialog Reference</p> <p>This is the month you want to set all the datetimes to for the new field. If it is -1, it will use the current timeperiod determined by the datetime object.</p> <p>There is no python reference for this parameter.</p>	Long
Set_Day	<p>Dialog Reference</p> <p>This is the day you want to set all the datetimes to for the new field. If it is -1, it will use the current timeperiod determined by the datetime object.</p> <p>There is no python reference for this parameter.</p>	Long
Set_Hour	<p>Dialog Reference</p> <p>This is the hour you want to set all the datetimes to for the new field. If it is -1, it will use the current timeperiod determined by the datetime object.</p> <p>There is no python reference for this parameter.</p>	Long
Set_Minute	<p>Dialog Reference</p> <p>This is the minute you want to set all the datetimes to for the new field. If it is -1, it will use the current timeperiod determined by the datetime object.</p> <p>There is no python reference for this parameter.</p>	Long
Set_Second	<p>Dialog Reference</p> <p>This is the second you want to set all the datetimes to for the new field. If it is -1, it will use the current timeperiod determined by the datetime object.</p> <p>There is no python reference for this parameter.</p>	Long
Set_Microsecond	<p>Dialog Reference</p> <p>This is the second you want to set all the datetimes to for the new field. If it is -1, it will use the current timeperiod determined by the datetime object.</p> <p>There is no python reference for this parameter.</p>	Long

Code Samples

There are no code samples for this tool.

Tags

Time, Datetime, Truncate, Set Time

Credits

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Use limitations

There are no access and use limitations for this item.

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