RTI_Sets Function

Description

IDX_SETS is a function that performs union, intersection and difference of delimited sets of row data. The function has 9 calling modes that allow it to create, add data to, intersect, union, difference, extract data from, and clear sets. The parameters for each calling mode are specific to the calling mode.

Syntax

result = RTI_Sets (code, param1, param2, param3)

Parameters

The function has the following parameters:

Parameter	Description								
code	The possible codes to pass to the RTI_SETS function are:								
	Value	IDX Equates	Description						
	1	INIT_SET\$	Initi	alizes a set returning a set handle.					
	2	ADD_TO_S ET\$	Adds data to an existing set returning an error code.						
	3	UNION_SE T\$	Cre	eates a union of two sets returning a set handle.					
	4	INTERSEC T_SETS\$	Cre	eates a results set of intersecting values from two sets retu	rning a set handle.				
	5	DIFFEREN CE_SETS\$	Cre	eates a results set of differing values from two sets returnin	g a set handle.				
	6	RESET_EX TRACT\$	Resets the extract parameters.						
	7	EXTRACT_ FROM_SET\$	Ext Ret inte	racts the row data from a set returning an error code. curns 1 if more data exists in the set, 0 if all data has been ger). Parameter is: the handle. A 3rd variable is passed, it	extracted, or an error code (a negative is filled with data by Set_Lib on "no error".				
	8	SET_INFO\$	Rep	ports data about a set.					
	9	CLEAR_SE Des T\$		stroys the set and removes the handle from storage.					
param1	The parameters are based on the code selected. The first parameter for each code is outlined below.								
	Code	Param Valu	e	Description					
	1	A set of data.							
	2	A set of data.							
	3	A handle to a set.		The handle of the 1st set to be used in the union.					
	4	A handle to a set.		The handle of the 1st set to be used in the intersection.					
	5	A handle to a set.		The handle of the 1st set to be used in the comparison.					
	6	A handle to a set.							
	7	A handle to a set.		The handle of the set to be extracted.					
	8	A handle to a set.							
	9	A handle to a set.		The handle to be removed.					

param2	The parameters are based on the code selected. The second parameter for each code is outlined below.									
param3	Code	Param Value		Description						
	1	0 (zero)	The parameter should always be zero. INIT, then a handle will not be created	If a non-zero value is passed to RTI_SETS for						
	2	A handle to a set.	The parameter should be the HANDLE	of the set to which data should be added.						
	3	A handle to a set.	The handle of the 2nd set to be used in	n the union.						
	4	A handle to a set.	The handle of the 2nd set to be used in the intersection.							
	5	A handle to a set.	The handle of the 2nd set to be used in	n the comparison.						
	6	The reset specification.								
	7	NA								
	8	<output> Returns the count of all rows in set.</output>								
	9	NA								
	The parameters are based on the code selected. The first parameter for each code is outlined below.									
	Code	Par	am Value	Description						
	1	Delimiter		The value of the delimiter used to separate the data in param1.						
	2	NA								
	3	NA								
	4	NA								
	5	NA								

6A handle to a set.7<Output> The operation returns the data in this parameter, if the
operation was successful.8<Output> The count of index rows in the set.9NA

Returns

Code	Return Value
1	<integer> A positive integer is returned if the operation was successful and a new set was created. The positive integer is the new set's Handle. A negative integer is an error code.</integer>
2	0 (zero) if successful < 0 (less than zero) if unsucessful
3	<integer> A positive integer is returned if the operation was successful and a new set was created. The positive integer is the new set's Handle. A negative integer is an error code.</integer>
4	<integer> A positive integer is returned if the operation was successful and a new set was created. The positive integer is the new set's Handle. A negative integer is an error code.</integer>
5	<integer> A positive integer is returned if the operation was successful and a new set was created. The positive integer is the new set's Handle. A negative integer is an error code.</integer>
6	0 (zero) if successful < 0 (less than zero) if unsucessful
7	<integer> 0 (zero) is returned if all data has been extracted from the set. 1 is returned if there is more data to be extracted from the set.</integer>
	A negative integer is an error code.

8	<output> The count of index rows in the set.</output>		
9	0 (zero). Always.		

Remark

Handles are a returned as sequential numeric counter.

Note: The idxSets_Setup.msi must be installed on the workstations running OpenInsight in order for the RTI_Sets function to work properly. The idxSets_Setup.msi can be installed from the ClientSetup.exe in the root OpenInsight directory or from the .msi file itself, also in the root OpenInsight directory.

Examples

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The Examples below use the following equate values:Equ INIT_SET$To1;* Initializes a set returning aEqu ADD_TO_SET$To2;* Adds data to an existing set. ReturnsEqu UNION_SET$$To3;* Performs the union of two setsEqu INTERSECT_SET$$To4;* Performs the intersection of twoEqu DIFFERENCE_SET$$To5;* Performs the difference of twoEqu RESET_EXTRACT$To6;* Sets the extract parameters (restartEqu SET_INFO$To8;* Reports data about a set.Equ CLEAR_SET$To9;* Clears a set_handle from the library's
```

Initialize A Set

```
* Initialize a set
set_A = "1" : @vm : "2" : @vm : "3"
handle_A = RTI_SETS( INIT_SET$, set_A, 0, @vm )
```

Add to a Set

```
* Initialize a set
set_A = "1" : @vm : "2" : @vm : "3"
handle_A = RTI_SETS( INIT_SET$, set_A, 0, @vm )
* Add to a set
set_B = "2" : @vm : "3" : @vm : "4"
hResult = RTI_SETS( ADD_TO_SET$, set_B, handle_A )
```