MET MA 603: SAS Project Exam Help SAS Programming and https://powcoder.com Applications Add WeChat powcoder

Functions

Using Functions

In mathematics, a function (e.g., f(x)) is a specific relationship between an input and an output. For example, the square root function takes a number as input, and returns the resultion relation to the country of the pone half power as an output.

Functions in SAS Work in much the same way. The input values are entered inside parenthesis following the name of the function. Some functions have more than one input, while others don't have any input value at all.

Note that in SAS the exponential function, i.e., x^y , is entered using the syntax x^{**} y.

In almost all cases, a given function's input and output correspond to a particular data type.

Examples of Functions with Character Input

- CAT: Combines two or more inputs

 Cat(City, ", ", State) -> Boston, MA
- COMPRESS: Aseggyes all spaces from the input Compress ("New York, New York) -> New York, New Yor
- SUBSTR: Returns ald people of the deput Substr("Hello, World!", 3, 6) -> Ilo, W
- LENGTH: Returns the number of characters in the input Length("Hello, World!") -> 13
- FIND: Returns the position of a substring within find('She sells seashells? Yes, she does.','she ') ->

Examples of Functions with Numeric Input

LOG: Returns the natural log of the input Log(100) -> 4.605

MAX: Returns the maximum of the inputs Help Max(5, 55, 2, 42, 100, 8, 9) -> 100 https://powcoder.com

SUM: Returns the sum of the inputs Sum(5, 55, 2, 42, 100, 8, 9) -> 221

ROUND: Returns the value of the rounded input Round(4.605, .1) -> 4.6 Round(4.605) -> 5

Examples of Functions with Date Input

- MDY: Returns the data corresponding to the inputs MDY(1,3,1960) -> 2
- DAY: Returns the day of the month of the input Assignment Project Exam Help Day(2) -> 3
- MONTH: Returns https://optworderingout
 - Month(2) Add WeChat powcoder
- YEAR: Returns the year of the input Year(2) -> 1960
- TODAY: Returns the current date (does not use an input)
 Today() -> 21342

Practice

Use the reps.sas dataset. Create a temporary SAS dataset, named reps, which has a new variable containing the office number.

Hint: Use the Find metion roise tibed in the Readings link.

Your result should httpk: sipularctod what is below (only the first several records are shown):

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VIEWTABLE: Work.Reps						
	Name	Party	Office	Phone	off_space	Office_Number
1	Byrne, Bradley	R	119 CHOB	202-225-4931	4	119
2	Kirkpatrick, Ann	D	201 CHOB	202-225-3361	4	201
3	Crawford, Rick	R	1711 LHOB	202-225-4076	5	1711
4	LaMalfa, Doug	R	322 CHOB	202-225-3076	4	322
5	DeGette, Diana	D	2368 RHOB	202-225-4431	5	2368

Readings

- Textbook sections 3.1, 3.2, 3.3, 3.4, 3.9
- http://support.sas.com/documentation/cdl/en/Irdict/64316 /HTML/default/viewer.htp#a002267763 http

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