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

Exam 1 Part II

Exam Rules

- No collaboration, notes, or other outside resources are allowed, except for a hand-written 3 by 5 inch index card.
- Save solutions to all problems in a single SAS file and upload it to Blackigoander (Flading Willxbend Abelp) on the submitted code. Do not upload any datasets or other files.
- Include your name in the name of the SAS file.
- Multiple attempts and Miswestasquing sthey are submitted before the deadline. The most recent attempt submitted before the deadline will be the one that is graded.
- Points will be deducted from late submissions.

An actuary is doing a reserve analysis using the data contained in the SAS dataset LDFs.sas7bdat.

The actuary wants to calculate a statistic for each Maturity called "Mean Ashi/gon mehic Pris jeas eckanthe the highest and lowest values.

For example, the Maturity of 120 has the factors 0.7620, 1.0292, 0.9251, 0.2201 and 1.0064. The highest and lowest value, 1.1735 and 0.7620, are eliminated, and the Mean x-hi/lo is calculated as:

(1.0292 + 0.9251 + 0.9292 + 1.0220 + 1.0064) / 5 = 0.9824.

Use SAS to calculate the Mean x-hi/lo statistic for each Maturity.

Below is the definition of the mathematical constant e.

$$e = \sum_{n=0}^{\infty} \frac{1}{n!} = \frac{1}{1} + \frac{1}{1} + \frac{1}{1 \cdot 2} + \frac{1}{1 \cdot 2 \cdot 3} + \cdots$$

e can be estimated by calculating the first m terms of the sequence. The higher the value of m, the closer the estimate will be to the true value of e.com

In SAS, the function exp(x) raises e to the power x, thus exp(1) = e. Add WeChat powcoder

Use a Do Loop to determine the value of m that will produce an estimate of e that is within 0.00001% of the true value.

Note: The function abs(x) returns the absolute value of x.

Note: The function fact(x) calculates x!

Use Proc Import to create a SAS dataset based on the external file exit_poll.csv. The data contains a survey asking which candidate (Jones or Grant) each person voted for.

Use Proc Freq to identify these issues in the data (do not consider FirstName and LastName in the analysis):

- An observation has one or more missing values (the observation should be removed).
- An observation has illogicating contradictory data (the observation should be removed).
- An observation has a word with a misspelling or inconsistent case (the word should be corrected).
- Every observation has the same value for a variable (the variable should be removed).

Use a Data Step to clean the data: use IF-THEN statements and dataset options to make any necessary corrections to observations and variables.

Use the Data Step to create a SAS dataset based on the external file life_insurance.txt. All variables except for "Cause" should be of the numeric datatype.

Format the resulting sale of the light of the external file.

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The SAS dataset world_cup.sas7bdat was not created correctly. Use functions to create five separate variables.

The corrected dataset should look similar to the one below:

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	Year	Winner	Score	RunnerUp
1	1930	https://now/	17de	Argenting 111
2	1934	https://powc	yuc	Czechosiovakia
3	1938		4-2	Hungary
4	1950	Uruguay	2-1	Brazil 🚪
5	1954	Add WeCha	1 t -2100	weoder -
6	1958	Brazil	5-2	Sweden
7	1962	Brazil	3-1	Czechoslovakia
8	1966	England	4-2	WestGermany
9	1970	Brazil	4-1	Italy
10	1974	WestGermany	2-1	Netherlands
11	1978	Argentina	3-1	Netherlands
12	1982	Italy	3-1	WestGermany
13	1986	Argentina	3-2	WestGermany
14	1990	WestGermany	1-0	Argentina
15	1994	Brazil	0-0	Italy
16	1998	France	3-0	Brazil
17	2002	Brazil	2-0	Germany
18	2006	Italy	1-1	France
19	2010	Spain	1-0	Netherlands
20	2014	Germany	1-0	Argentina

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Point Distribution

Question	Points
5	16
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9	16
Part II Total	80

Formats

Format	Definition	Example
\$UPCASEw.	Converts character data to uppercase	
Datew.	Writes SAS date values in form ddmmmyy or ddmmmyyyy where	
MMDDYYw.	mmm represignment the reject from the p Writes SAS date values in form mm/dd/yy or mm/dd/yyyy	100CT2017
TIMEw.	Writes SAS times in form he mates scom	
COMMAw.d	Writes numbers with commas	100,000
DOLLARw.d	Writes number with a widing and commission der	
PERCENTw.d	Writes numeric data as percentages. Negative numbers indicated with parentheses	(25%)
PERCENTNw.d	Writes numeric data as percentages. Negative numbers indicated with the minus sign	12.02%

Informats

Informat	Definition	
\$CHARw.	Reads character data - does not trim leading or trailing blanks	
\$w.	Reads character data - trims leading blanks	
Datew.	Reads dates and darkingly be damming where in mm represents the first three letters of the month name	
MMDDYYw.	Reads dates introps in poly worm tely worthere a special character such as / or - separates the month, day and year	
DDMMYYw.	Reads dates in farm dynmyylor ddmmyyyy where a special character such as / or - separates the day, month and year	
COMMAw.d	Removes embedded commas and \$, converts left parentheses to minus sign	
PERCENTw.d	Converts percentages to numbers	

Character Functions

Function	Inputs	Definition
ANYALNUM	(ara)	Returns position of first occurance of any alphabetic character or numeral
	(arg)	
ANYALPHA	(arg) 155	Returns position of fils (occurance of any algebrase to character
ANYDIGIT	(arg)	Returns position of first occurance of any numeral
ANYSPACE	(arg)	Returns position of first occurrence of a white space character
CAT	(arg1, arg2, etc.)	Concate Nates (contbines) two of four character strings together leaving any blanks
COMPRESS	(arg)	Removes spaces from character data
LENGTH	(arg)	Returns the length of an argument (missing values have a length of 1)
FIND	(arg1, arg2)	Return Con Star 2 Withir Die W. COCCI
PROPCASE	(arg)	Converts first character in word to uppercase and remaining characters to lowercase
SUBSTR	(arg,position,n)	Extracts a substring from an argument starting at position for n characters
TRIM	(arg)	Removes trailing blanks from character expression
UPCASE	(arg)	Converts all letters in argument to uppercase

Numeric Functions

Inputs	Definition
(arg)	Returns the integer portion of the argument
(arg) SS	Bulline integration of the against Help
(arg)	Returns the logarithm to the base 10
(arg1, arg2, etc.)	Returns the largest non-missing value
(arg1, arg2, etc.)	Returns the largest non-missing value Returns the afit whether or non-missing values
(arg1, arg2, etc.)	Returns the smallest non-missing value
(arg1, arg2, etc.)	Returns the sun of non-missing values Add We Chat powcoder
	(arg) (arg) SS (arg) (arg1, arg2, etc.) (arg1, arg2, etc.) (arg1, arg2, etc.)

Numeric (Date-related) Functions

Function	Inputs	Definition
DAY	(date)	Rejumenthedaportitie industry in He in He in
MDY	(month,day,year)	Returns a SAS date value from month, day and year values
MONTH		Returns the month (1-12) from a SAS date value
TODAY	()	Return the current date as a SAS date walue COM
YEAR	(date)	Returns the year from a SAS date value

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