O mers ...

Reference between Python and SAS.

1. (1 pt.) State an important difference between Python and SAS.

SAS is not free for commercial use python is in-mem in-mem

SAS has support available python does not Python is general purpose 1

2. (1 pt.) Give an example of, or describe, a nominal variable?

SAS is domain excitic A nominal variable is an unordered entegorical variable examples include: car make/models, colors, events, states, etc...
3.) (1 pts.) Given Data Set 1 below, write out the results of selecting the rows where X1 ≥ 3.

ID	X1	X2
123A	0	W
1234	5	Χ
1235	8	Υ
1235B	3	Z

1234 5 X 1235 B 3 7 not motter

Data Set 1

4.) Given Data Set 2 below, write out the results of transposing Data Set 2. You may disregard column and/or row names for the transposed set. (2 p + 3)

ID	Х3
123C	5
1234	6
1235	7
1235	8.
1234	9
1235 .	10
1235B	11

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Data Set 2

2 pts.

4.) (2 pts.) Given Data Set 2 above, write out the results of grouping Data Set 2 by ID and summing X3.

6- 6- 0- 1	
10	SUM-X3
1236	The second secon
1234	15
1235	25
12353	1

row order does not mafter aggregated X3 col name does not matter

5. (3 pts.) Given Data Sets 1 and 2 above, write out the results of left joining Data Set 1 onto Data Set 2 by the key variable shared between the two data sets. (Let Data Set 2 be the left table.) Fill any resulting numeric missing values with the sentinel value -9999 and any missing character values with the sentinel value 7777

value ZZZZ		(1
10	X3	XI	XZ
1230	5	-9999	3555
1234	6	5	M
1235	7	8	Y
1235	8	8	Ý
1234	19	15	W
1235	10	8	1
12351	3/11	3	2
	and the same of th	1	

row order does not mafter column order does not mafter

10 can be repeated