

The Stars of TABULATE

(Also Commas and Spaces)

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TABLE 1
 PROC TABULATE DATA=STORE.CLASS;
 CLASS ORG DATE;
 TABLE ORG, DATE;

	Class Date			
	04/07/80	05/03/80	06/22/80	10/12/80
	N	N	N	N
Organization				
Energy	1.00	2.00	1.00	4.00
Mgt S	1.00	1.00	4.00	4.00
Power	3.00	1.00	4.00	1.00

TABLE 2
 PROC TABULATE DATA=STORE.CLASS;
 CLASS ORG;
 VAR SCORE;
 TABLE ORG, SCORE;

	Final Exam Score
	SUM
Organization	
Energy	530.40
Mgt S	825.60
Power	736.90

TABLE 3
 PROC TABULATE DATA=STORE.CLASS;
 CLASS ORG LOC DATE;
 TABLE LOC, ORG, DATE;

Location A

	Class Date			
	04/07/80	05/03/80	06/22/80	10/12/80
	N	N	N	N
Organization				
Energy	1.00	1.00	1.00	3.00
Mgt S	1.00			1.00
Power	1.00	1.00	1.00	1.00

TABLE 3
 PROC TABULATE DATA=STORE.CLASS;
 CLASS ORG LOC DATE;
 TABLE LOC, ORG, DATE;

Location B

	Class Date		
	04/07/80	05/03/80	10/12/80
	N	N	N
Organization			
Energy		1.00	1.00
Mgt S		1.00	
Power	2.00		

TABLE 3
 PROC TABULATE DATA=STORE.CLASS;
 CLASS ORG LOC DATE;
 TABLE LOC, ORG, DATE;

Location C

	Class Date	
	06/22/80	10/12/80
	N	N
Organization		
Mgt S	4.00	3.00
Power	3.00	

TABLE 4
PROC TABULATE DATA=STORE.CLASS;
CLASS ORG DATE;
TABLE ORG, DATE*(N*F=8.0);
FORMAT VALUES

	Class Date			
	04/07/80	05/03/80	06/22/80	10/12/80
	N	N	N	N
Organization				
Energy	1	2	1	4
Mgt S	1	1	4	4
Power	3	1	4	1

TABLE 5
PROC TABULATE DATA=STORE.CLASS;
CLASS ORG LOC DATE;
TABLE ORG, DATE*LOC*(N*F=3.0);
NESTING COLUMNS

	Class Date							
	04/07/-	05/03/-	06/22/-					
	80	80	80	10/12/80				
	Locati-	Locati-	Locati-	Location				
	on	on	on					
	A B	A B	A C	A B	C			
	N N	N N	N N	N N	N N			
Organization								
Energy	1	1	1	1	3	1		
Mgt S	1	1	1	4	1	3		
Power	1	2	1	1	3	1		

TABLE 6
PROC TABULATE DATA=STORE.CLASS;
CLASS ORG LOC DATE;
TABLE ORG*DATE, LOC*(N*F=3.0);
NESTING ROWS

		Location		
		A	B	C
		N	N	N
Organization	Class Date			
Energy	04/07/80	1		
	05/03/80	1	1	
	06/22/80	1		
	10/12/80	3	1	
Mgt S	04/07/80	1		
	05/03/80		1	
	06/22/80			4
	10/12/80	1		3
Power	04/07/80	1	2	
	05/03/80	1		
	06/22/80	1		3
	10/12/80	1		

TABLE 7
PROC TABULATE DATA=STORE.CLASS;
CLASS ORG LOC DATE;
TABLE ORG*DATE, LOC*(N*F=3.0)/RTS=30;
RTS OPTION

		Location		
		A	B	C
		N	N	N
Organization	Class Date			
Energy	04/07/80	1		
	05/03/80	1	1	
	06/22/80	1		
	10/12/80	3	1	
Mgt S	04/07/80	1		
	05/03/80		1	
	06/22/80			4
	10/12/80	1		3
Power	04/07/80	1	2	
	05/03/80	1		
	06/22/80	1		3
	10/12/80	1		

TABLE 8
 PROC TABULATE DATA=STORE.CLASS;
 CLASS ORG LOC DATE;
 TABLE ORG DATE, LOC*(N*F=3.0);
 CONCATENATION

	Location		
	A	B	C
	N	N	N
Organization			
Energy	6	2	
Mgt S	2	1	7
Power	4	2	3
Class Date			
04/07/80	3	2	
05/03/80	2	2	
06/22/80	2		7
10/12/80	5	1	3

TABLE 10
 PROC TABULATE DATA=STORE.CLASS;
 CLASS ORG LOC DATE;
 TABLE ORG, (LOC*N*F=2.0 DATE*N*F=8.0);
 CONCATENATION

	Location			Class Date			
	A	B	C	04/07/80	05/03/80	06/22/80	10/12/80
	N	N	N	N	N	N	N
Organization							
Energy	6	2		1	2	1	4
Mgt S	2	1	7	1	1	4	4
Power	4	2	3	3	1	4	1

TABLE 11
 PROC TABULATE DATA=STORE.CLASS;
 CLASS ORG;
 VAR SCORE;
 TABLE ORG, SCORE*MEAN;
 STATISTICS

	Final Exam Score
	MEAN
Organization	
Energy	88.40
Mgt S	82.56
Power	81.88

TABLE 9
 PROC TABULATE DATA=STORE.CLASS;
 CLASS ORG LOC DATE;
 TABLE ORG, (LOC DATE)*(N*F=3.0);
 CONCATENATION

	Location			Class Date			
				04- /0- 7/- 80	05- /0- 3/- 80	06- /2- 2/- 80	10- /1- 2/- 80
	A	B	C	N	N	N	N
Organization							
Energy	6	2		1	2	1	4
Mgt S	2	1	7	1	1	4	4
Power	4	2	3	3	1	4	1

```
TABLE 12
PROC TABULATE DATA=STORE.CLASS;
CLASS ORG;
VAR SCORE;
TABLE ORG, SCORE*(N MEAN MAX PCTN);
**STATISTICS**
```

	Final Exam Score			
	N	MEAN	MAX	PCTN
Organization				
Energy	6.00	88.40	100.00	24.00
Mgt S	10.00	82.56	99.40	40.00
Power	9.00	81.88	99.10	36.00

```
TABLE 13
PROC TABULATE DATA=STORE.CLASS;
CLASS ORG;
VAR SCORE;
TABLE ORG, SCORE*(N MEAN MAX PCTN)*F=5.1;
**STATISTICS - FORMATTED**
```

	Final Exam Score			
	N	MEAN	MAX	PCTN
Organization				
Energy	6.0	88.4	100.0	24.0
Mgt S	10.0	82.6	99.4	40.0
Power	9.0	81.9	99.1	36.0

```
TABLE 14
PROC TABULATE DATA=STORE.CLASS;
CLASS ORG;
VAR SCORE;
TABLE ORG*(N MEAN MAX PCTN), SCORE;
**STATISTICS**
```

		Final Exam Score
Organization		
Energy	N	6.00
	MEAN	88.40
	MAX	100.00
	PCTN	24.00
Mgt S	N	10.00
	MEAN	82.56
	MAX	99.40
	PCTN	40.00
Power	N	9.00
	MEAN	81.88
	MAX	99.10
	PCTN	36.00

```
TABLE 15
PROC TABULATE DATA=STORE.CLASS;
CLASS ORG LOC;
VAR SCORE;
TABLE ORG, LOC*SCORE*(N MEAN)*F=5.1;
**STATISTICS**
```

	Location					
	A		B		C	
	Final Exam Score		Final Exam Score		Final Exam Score	
	N	MEAN	N	MEAN	N	MEAN
Organization						
Energy	4.0	84.4	2.0	96.4		
Mgt S	2.0	73.3	1.0	85.4	7.0	84.8
Power	4.0	89.1	2.0	70.7	3.0	79.8

TABLE 16
 PROC TABULATE DATA=STORE.CLASS;
 CLASS ORG LOC;
 VAR SCORE;
 TABLE ORG*LOC, SCORE*(N MEAN MAX PCTN)*F=5.1;
 STATISTICS

		Final Exam Score			
		N	MEAN	MAX	PCTN
Organization	Location				
Energy	A	4.0	84.4	93.0	16.0
	B	2.0	96.4	100.0	8.0
Mgt S	A	2.0	73.3	99.4	8.0
	B	1.0	85.4	85.4	4.0
	C	7.0	84.8	98.3	28.0
Power	A	4.0	89.1	99.1	16.0
	B	2.0	70.7	90.0	8.0
	C	3.0	79.8	93.6	12.0

TABLE 17
 PROC TABULATE DATA=STORE.CLASS;
 CLASS ORG LOC;
 VAR SCORE;
 TABLE ORG LOC, SCORE*(N MEAN MAX PCTN)*F=5.1;
 STATISTICS

		Final Exam Score			
		N	MEAN	MAX	PCTN
Organization					
Energy		6.0	88.4	100.0	24.0
Mgt S		10.0	82.6	99.4	40.0
Power		9.0	81.9	99.1	36.0
Location					
A		10.0	84.0	99.4	40.0
B		5.0	83.9	100.0	20.0
C		10.0	83.3	98.3	40.0

TABLE 18
 PROC TABULATE DATA=STORE.CLASS;
 CLASS ORG LOC;
 VAR SCORE;
 TABLE ORG ALL, (LOC ALL)*SCORE*(N MEAN)*F=5.1;
 STATISTICS

	Location							
	A		B		C		ALL	
	Final Exam Score		Final Exam Score		Final Exam Score		Final Exam Score	
	N	MEAN	N	MEAN	N	MEAN	N	MEAN
Organization								
Energy	4.0	84.4	2.0	96.4			6.0	88.4
Mgt S	2.0	73.3	1.0	85.4	7.0	84.8	10.0	82.6
Power	4.0	89.1	2.0	70.7	3.0	79.8	9.0	81.9
ALL	10.0	84.0	5.0	83.9	10.0	83.3	25.0	83.7

TABLE 19
 PROC TABULATE DATA=STORE.CLASS MISSING;
 CLASS ORG LOC;
 VAR SCORE;
 KEYLABEL N='Count' MEAN='Mean' ALL='Total';
 TABLE ORG ALL, (LOC ALL='Row Totals')*SCORE*(N MEAN)*F=5.1/SUGI 15;
 TITLES, LABELS AND MISSING

SUGI 15	Location							
	A		B		C		Row Totals	
	Final Exam Score		Final Exam Score		Final Exam Score		Final Exam Score	
	Count	Mean	Count	Mean	Count	Mean	Count	Mean
Organization								
Energy	4.0	84.4	2.0	96.4			6.0	88.4
Mgt S	2.0	73.3	1.0	85.4	7.0	84.8	10.0	82.6
Power	4.0	89.1	2.0	70.7	3.0	79.8	9.0	81.9
Total	10.0	84.0	5.0	83.9	10.0	83.3	25.0	83.7

TABLE 20
 PROC TABULATE DATA=STORE.CLASS MISSING NOSEPS;
 CLASS ORG LOC;
 VAR SCORE;
 TABLE ORG ALL='--- Totals ---',
 (LOC ALL='Row Totals')*(SCORE*MEAN=' '*F=5.1)
 /BOX=SCORE MISSTEXT='None';
 TITLES, LABELS, MISSING AND NOSEPS

Final Exam Score	Location			Row Totals
	A	B	C	
	Final Exam Score	Final Exam Score	Final Exam Score	
Organization				
Energy	84.4	96.4	None	88.4
Mgt S	73.3	85.4	84.8	82.6
Power	89.1	70.7	79.8	81.9
--- Totals ---	84.0	83.9	83.3	83.7

TABLE 21
 PROC TABULATE DATA=STORE.CLASS MISSING NOSEPS;
 CLASS ORG LOC;
 VAR SCORE;
 TABLE ORG*(LOC ALL='Loc Subtotal') ALL='Org Total',
 SCORE='Average Final Exam Score'*MEAN=' '*F=8.1
 / RTS=35 BOX=SCORE MISSTEXT='None';
 TITLES, LABELS, MISSING, NOSEPS AND SUB-TOTALS

Final Exam Score		Average Final Exam Score

Organization	Location	
Energy	A	84.4
	B	96.4
	Loc Subtotal	88.4
Mgt S	Location	
	A	73.3
	B	85.4
	C	84.8
	Loc Subtotal	82.6
	Power	Location
	A	89.1
	B	70.7
	C	79.8
	Loc Subtotal	81.9
	Org Total	83.7

TABLE 22
 PROC TABULATE DATA=STORE.CLASS MISSING NOSEPS FORMCHAR='';
 CLASS ORG LOC;
 VAR SCORE;
 TABLE ORG ALL='--- Totals ---',
 (LOC ALL='Row totals')*(SCORE=' '*MEAN=' '*F=8.1)
 / BOX=SCORE MISSTEXT='None';
 TITLES, LABELS, MISSING, NOSEPS, SUB-TOTALS AND FORMCHAR=' 11 blanks '

Final Exam Score	Location			Row totals
	A	B	C	
Organization				
Energy	84.4	96.4	None	88.4
Mgt S	73.3	85.4	84.8	82.6
Power	89.1	70.7	79.8	81.9
--- Totals ---	84.0	83.9	83.3	83.7

TABLE 23
 PROC TABULATE DATA=STORE.CLASS FORMAT=6.1;
 CLASS ORG LOC;
 TABLE ORG, (LOC ALL)*(N*F=3.0 PCTN);
 PERCENTAGES AND FORMAT=6.1

	Location								ALL
	A		B		C				
	N	PCTN	N	PCTN	N	PCTN	N	PCTN	
Organization									
Energy	6	22.2	2	7.4				8	29.6
Mgt S	2	7.4	1	3.7	7	25.9	10	37.0	
Power	4	14.8	2	7.4	3	11.1	9	33.3	

TABLE 24
 PROC TABULATE DATA=STORE.CLASS FORMAT=6.1;
 CLASS ORG LOC;
 TABLE ORG, (LOC ALL)*(N*F=3.0 PCTN<ORG>);
 PERCENTAGES AND FORMAT=6.1

	Location							
	A		B		C		ALL	
	N	PCTN	N	PCTN	N	PCTN	N	PCTN
Organization								
Energy	6	50.0	2	40.0			8	29.6
Mgt S	2	16.7	1	20.0	7	70.0	10	37.0
Power	4	33.3	2	40.0	3	30.0	9	33.3

TABLE 25
 PROC TABULATE DATA=STORE.CLASS FORMAT=6.1;
 CLASS ORG LOC;
 TABLE ORG, (LOC ALL)*(N*F=3.0 PCTN<LOC ALL>);
 PERCENTAGES AND FORMAT=6.1

	Location							
	A		B		C		ALL	
	N	PCTN	N	PCTN	N	PCTN	N	PCTN
Organization								
Energy	6	75.0	2	25.0			8	100.0
Mgt S	2	20.0	1	10.0	7	70.0	10	100.0
Power	4	44.4	2	22.2	3	33.3	9	100.0

TABLE 26
 PROC TABULATE DATA=STORE.CLASS FORMAT=6.1;
 CLASS ORG LOC;
 VAR SCORE;
 TABLE ORG, (LOC ALL)*SCORE*(SUM*F=6.1 PCTSUM<LOC ALL>);
 PERCENTAGES AND FORMAT=6.1

	Location							
	A		B		C		ALL	
	Final Exam Score		Final Exam Score		Final Exam Score		Final Exam Score	
	SUM	PCTSUM	SUM	PCTSUM	SUM	PCTSUM	SUM	PCTSUM
Organization								
Energy	337.6	63.7	192.8	36.3			530.4	100.0
Mgt S	146.7	17.8	85.4	10.3	593.5	71.9	825.6	100.0
Power	356.2	48.3	141.3	19.2	239.4	32.5	736.9	100.0

TABLE 27
 PROC TABULATE DATA=STORE.CLASS FORMAT=6.1 NOSEPS;
 CLASS ORG LOC DATE;
 TABLE ORG*DATE, (LOC ALL)*(N*F=3.0 PCTN);
 PERCENTAGES, FORMAT=6.1 AND NOSEPS

		Location							
		A		B		C		ALL	
		N	PCTN	N	PCTN	N	PCTN	N	PCTN
Organization Energy	Class Date	1	3.7					1	3.7
	04/07/80	1	3.7	1	3.7			2	7.4
	05/03/80	1	3.7					1	3.7
	06/22/80	1	3.7					1	3.7
Mgt S	10/12/80	3	11.1	1	3.7			4	14.8
	04/07/80	1	3.7					1	3.7
	05/03/80			1	3.7			1	3.7
	06/22/80					4	14.8	4	14.8
Power	10/12/80	1	3.7			3	11.1	4	14.8
	04/07/80	1	3.7	2	7.4			3	11.1
	05/03/80	1	3.7					1	3.7
	06/22/80	1	3.7			3	11.1	4	14.8
	10/12/80	1	3.7					1	3.7

TABLE 28
 PROC TABULATE DATA=STORE.CLASS FORMAT=6.1 NOSEPS;
 CLASS ORG LOC DATE;
 TABLE ORG*DATE, (LOC ALL)*(N*F=3.0 PCTN<ORG*DATE>);
 PERCENTAGES, FORMAT=6.1 AND NOSEPS

		Location								ALL	
		A		B		C					
		N	PCTN	N	PCTN	N	PCTN	N	PCTN		
Organization	Class Date										
Energy	04/07/80	1	8.3							1	3.7
	05/03/80	1	8.3	1	20.0					2	7.4
	06/22/80	1	8.3							1	3.7
	10/12/80	3	25.0	1	20.0					4	14.8
Mgt S	04/07/80	1	8.3							1	3.7
	05/03/80			1	20.0					1	3.7
	06/22/80					4	40.0			4	14.8
	10/12/80	1	8.3			3	30.0			4	14.8
Power	04/07/80	1	8.3	2	40.0					3	11.1
	05/03/80	1	8.3							1	3.7
	06/22/80	1	8.3			3	30.0			4	14.8
	10/12/80	1	8.3							1	3.7

TABLE 29
 PROC TABULATE DATA=STORE.CLASS FORMAT=6.1 NOSEPS;
 CLASS ORG LOC DATE;
 TABLE ORG*DATE, (LOC ALL)*(N*F=3.0 PCTN<LOC ALL>);
 PERCENTAGES, FORMAT=6.1 AND NOSEPS

		Location							
		A		B		C		ALL	
		N	PCTN	N	PCTN	N	PCTN	N	PCTN
Organization	Class Date	1	100.0					1	100.0
Energy	04/07/80	1	50.0	1	50.0			2	100.0
	05/03/80	1	100.0					1	100.0
	06/22/80	3	75.0	1	25.0			4	100.0
	10/12/80	1	100.0					1	100.0
Mgt S	04/07/80			1	100.0			1	100.0
	05/03/80							1	100.0
	06/22/80					4	100.0	4	100.0
	10/12/80	1	25.0			3	75.0	4	100.0
Power	04/07/80	1	33.3	2	66.7			3	100.0
	05/03/80	1	100.0					1	100.0
	06/22/80	1	25.0			3	75.0	4	100.0
	10/12/80	1	100.0					1	100.0

TABLE 30
 PROC TABULATE DATA=STORE.CLASS FORMAT=6.1 NOSEPS;
 CLASS ORG LOC DATE;
 TABLE ORG*DATE, (LOC ALL)*(N*F=3.0 PCTN<DATE>);
 PERCENTAGES, FORMAT=6.1 AND NOSEPS

		Location							
		A		B		C		ALL	
		N	PCTN	N	PCTN	N	PCTN	N	PCTN
Organization	Class Date								
Energy	04/07/80	1	16.7					1	12.5
	05/03/80	1	16.7	1	50.0			2	25.0
	06/22/80	1	16.7					1	12.5
	10/12/80	3	50.0	1	50.0			4	50.0
Mgt S	04/07/80	1	50.0					1	10.0
	05/03/80			1	100.0			1	10.0
	06/22/80					4	57.1	4	40.0
	10/12/80	1	50.0			3	42.9	4	40.0
Power	04/07/80	1	25.0	2	100.0			3	33.3
	05/03/80	1	25.0					1	11.1
	06/22/80	1	25.0			3	100.0	4	44.4
	10/12/80	1	25.0					1	11.1

TABLE 31
 PROC TABULATE DATA=STORE.CLASS FORMAT=6.1 NOSEPS;
 CLASS ORG LOC DATE;
 TABLE ORG*DATE, (LOC ALL)*(N*F=3.0 PCTN<ORG>);
 PERCENTAGES, FORMAT=6.1 AND NOSEPS

		Location								ALL	
		A		B		C					
		N	PCTN	N	PCTN	N	PCTN	N	PCTN		
		Organization	Class Date								
Energy	04/07/80	1	33.3					1	20.0		
	05/03/80	1	50.0	1	50.0			2	50.0		
	06/22/80	1	50.0					1	11.1		
	10/12/80	3	60.0	1	100.0			4	44.4		
Mgt S	04/07/80	1	33.3					1	20.0		
	05/03/80			1	50.0			1	25.0		
	06/22/80					4	57.1	4	44.4		
	10/12/80	1	20.0			3	100.0	4	44.4		
Power	04/07/80	1	33.3	2	100.0			3	60.0		
	05/03/80	1	50.0					1	25.0		
	06/22/80	1	50.0			3	42.9	4	44.4		
	10/12/80	1	20.0					1	11.1		

TABLE 32
 PROC TABULATE DATA=STORE.CLASS FORMAT=6.1 NOSEPS;
 CLASS ORG LOC DATE;
 TABLE ORG*DATE ALL, (LOC ALL)*(N*F=3.0 PCTN<ORG*DATE ALL>);
 PERCENTAGES, FORMAT=6.1 AND NOSEPS

		Location							
		A		B		C		ALL	
		N	PCTN	N	PCTN	N	PCTN	N	PCTN
Organization	Class Date								
Energy	04/07/80	1	8.3					1	3.7
	05/03/80	1	8.3	1	20.0			2	7.4
	06/22/80	1	8.3					1	3.7
	10/12/80	3	25.0	1	20.0			4	14.8
Mgt S	04/07/80	1	8.3					1	3.7
	05/03/80			1	20.0			1	3.7
	06/22/80					4	40.0	4	14.8
	10/12/80	1	8.3			3	30.0	4	14.8
Power	04/07/80	1	8.3	2	40.0			3	11.1
	05/03/80	1	8.3					1	3.7
	06/22/80	1	8.3			3	30.0	4	14.8
	10/12/80	1	8.3					1	3.7
ALL		12	100.0	5	100.0	10	100.0	27	100.0

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