

1)

Temperature Data																									
day	date	temp1	temp2	temp3	temp4	temp5	temp6	temp7	temp8	temp9	temp10	temp11	temp12	tempC1	tempC2	tempC3	tempC4	tempC5	tempC6	tempC7	tempC8	tempC9	tempC10	tempC11	tempC12
1	01/23/2012	21.5	17.5	23.7	28.0	29.9	34.5	34.0	35.2	38.8	41.7	38.6	42.7	-5.8	-8.1	-4.6	-2.2	-1.2	1.4	1.1	1.8	3.8	5.4	3.7	5.9
2	01/24/2012	21.8	23.6	28.5	23.8	31.6	28.8	37.5	33.2	30.0	34.5	44.9	43.7	-5.7	-4.7	-1.9	-4.6	-0.2	-1.8	3.1	0.7	-1.1	1.4	7.2	6.5
3	01/25/2012	19.7	21.3	24.9	25.2	26.4	31.6	37.1	29.8	33.3	39.4	40.1	44.1	-6.8	-5.9	-3.9	-3.8	-3.1	-0.2	2.8	-1.2	0.7	4.1	4.5	6.7
4	01/26/2012	18.9	21.3	25.3	28.8	24.1	31.5	36.1	38.4	38.3	39.5	40.9	47.4	-7.3	-5.9	-3.7	-1.8	-4.4	-0.3	2.3	3.6	3.5	4.2	4.9	8.6
5	01/27/2012	21.5	19.7	22.1	26.7	24.0	29.6	32.6	34.1	38.1	34.7	38.3	36.1	-5.8	-6.8	-5.5	-2.9	-4.4	-1.3	0.3	1.2	3.4	1.5	3.5	2.3

Temperature Data																									
day	date	temp1	tempC1	temp2	tempC2	temp3	tempC3	temp4	tempC4	temp5	tempC5	temp6	tempC6	temp7	tempC7	temp8	tempC8	temp9	tempC9	temp10	tempC10	temp11	tempC11	temp12	tempC12
1	01/23/2012	21.5	-5.8	17.5	-8.1	23.7	-4.6	28.0	-2.2	29.9	-1.2	34.5	1.4	34.0	1.1	35.2	1.8	38.8	3.8	41.7	5.4	38.6	3.7	42.7	5.9
2	01/24/2012	21.8	-5.7	23.6	-4.7	28.5	-1.9	23.8	-4.6	31.6	-0.2	28.8	-1.8	37.5	3.1	33.2	0.7	30.0	-1.1	34.5	1.4	44.9	7.2	43.7	6.5
3	01/25/2012	19.7	-6.8	21.3	-5.9	24.9	-3.9	25.2	-3.8	26.4	-3.1	31.6	-0.2	37.1	2.8	29.8	-1.2	33.3	0.7	39.4	4.1	40.1	4.5	44.1	6.7
4	01/26/2012	18.9	-7.3	21.3	-5.9	25.3	-3.7	28.8	-1.8	24.1	-4.4	31.5	-0.3	36.1	2.3	38.4	3.6	38.3	3.5	39.5	4.2	40.9	4.9	47.4	8.6
5	01/27/2012	21.5	-5.8	19.7	-6.8	22.1	-5.5	26.7	-2.9	24.0	-4.4	29.6	-1.3	32.6	0.3	34.1	1.2	38.1	3.4	34.7	1.5	38.3	3.5	36.1	2.3

Step e was much easier than step f because in e you can simply say temp1 – temp24, but the same cannot be done when staggering the temperatures.

2) b)

c)

The FREQ Procedure				
name	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A	85	8.50	85	8.50
B	60	6.00	145	14.50
C	71	7.10	216	21.60
D	89	8.90	305	30.50
E	45	4.50	350	35.00
F	17	1.70	367	36.70
G	40	4.00	407	40.70
H	21	2.10	428	42.80
I	17	1.70	445	44.50
J	118	11.80	563	56.30
K	65	6.50	628	62.80
L	34	3.40	662	66.20
M	65	6.50	727	72.70
N	25	2.50	752	75.20
O	11	1.10	763	76.30
P	18	1.80	781	78.10
Q	6	0.60	787	78.70
R	66	6.60	853	85.30
S	50	5.00	903	90.30
T	53	5.30	956	95.60
U	2	0.20	958	95.80
V	6	0.60	964	96.40
W	14	1.40	978	97.80
X	3	0.30	981	98.10
Y	4	0.40	985	98.50
Z	15	1.50	1000	100.00

The FREQ Procedure	
name	Frequency
J	118
D	89
A	85
C	71
R	66
K	65
M	65
B	60
T	53
S	50
E	45
G	40
L	34
N	25
H	21
P	18
F	17
I	17
Z	15
W	14
O	11
Q	6
V	6
Y	4
X	3
U	2

3) a)

The FREQ Procedure

name	Frequency
Ja	60
Jo	32
Je	14
Ju	11
Ji	1

b)

Most popular Ja and Jo names

rank	name
1	Jacob
17	James
41	Jack
47	Jason
48	Jackson
62	Jayden
83	Jaden
98	Jake
127	Jared
158	Javier
190	Jalen
204	Jaylen
228	Jace
234	Jakob
261	Jaiden
266	Jaxon
272	Jaime
319	Jayson
352	Jay
405	Javon
412	Jaylin
423	Jaylon
425	Jamari
430	Jadon
446	Jamal
463	Jaxson
494	Jaydon
496	Jaquan
516	Jameson
518	Jarrett
519	Jayce
534	Jamarion
541	Jamie
576	Jamison
581	Jasper
604	Jair

4) b +bonus)

Google Ad Stastics by Weekday			
weekday	avgImpressions	avgClicks	avgRevinue
Monday	1208.37	2.40926	0.27325
Tuesday	772.89	4.00342	0.58403
Wednesday	433.28	3.14107	0.38511
Thursday	535.94	2.28667	0.31627
Friday	545.86	2.85838	0.31982
Saturday	367.02	2.34786	0.25376
Sunday	525.05	4.33184	0.43594

5) a)

NY Population Data		
Obs	County	TotalPop
1	Albany County	294,565
2	Allegany County	49,927
3	Bronx County	1,332,650
4	Broome County	200,536
5	Cattaraugus County	83,955
6	Cayuga County	81,963
7	Chautauqua County	139,750
8	Chemung County	91,070
9	Chenango County	51,401
10	Clinton County	79,894

NON-NYC Voter Data				
Obs	County	Republican	Democrat	Total
1	Albany	47,537	91,533	191,933
2	Allegany	15,330	7,204	28,604
3	Broome	52,024	44,187	125,405
4	Cattaraugus	20,740	17,721	50,741
5	Cayuga	19,708	16,201	48,843
6	Chautauqua	33,696	33,661	97,011
7	Chemung	24,097	16,873	54,063
8	Chenango	14,685	7,586	30,335
9	Clinton	17,135	15,971	45,992
10	Columbia	13,798	10,618	39,342

NYC Voter Data				
Obs	County	Republican	Democrat	Total
1	Bronx	50,761	466,329	630,084
2	Kings	122,347	846,818	1,206,728
3	New York	113,696	639,735	956,853
4	Queens	150,231	630,499	999,682
5	Richmond	75,353	110,580	244,138

b)

Obs	County	Republican	Democrat	Total	TotalPop
1	Albany	47,537	91,533	191,933	294,565
2	Allegany	15,330	7,204	28,604	49,927
3	Broome	52,024	44,187	125,405	1,332,650
4	Cattaraugus	20,740	17,721	50,741	200,536
5	Cayuga	19,708	16,201	48,843	83,955
6	Chautauqua	33,696	33,661	97,011	81,963
7	Chemung	24,097	16,873	54,063	139,750
8	Chenango	14,685	7,586	30,335	91,070
9	Clinton	17,135	15,971	45,992	51,401
10	Columbia	13,798	10,618	39,342	79,894

Obs	County	Republican	Democrat	Total	TotalPop
58	Washington County	.	.	.	61,042
59	Wayne County	.	.	.	93,765
60	Westchester County	.	.	.	923,459
61	Wyoming County	.	.	.	43,424
62	Yates County	.	.	.	24,621

d)

Obs	County	Republican	Democrat	Total	TotalPop
1	Albany	47,537	91,533	191,933	294,565
2	Allegany	15,330	7,204	28,604	49,927
3	Broome	52,024	44,187	125,405	1,332,650
4	Cattaraugus	20,740	17,721	50,741	200,536
5	Cayuga	19,708	16,201	48,843	83,955
6	Chautauqua	33,696	33,661	97,011	81,963
7	Chemung	24,097	16,873	54,063	139,750
8	Chenango	14,685	7,586	30,335	91,070
9	Clinton	17,135	15,971	45,992	51,401
10	Columbia	13,798	10,618	39,342	79,894

e)

#### Percent Registered to vote

County	Percent
Queens	2302.1
Kings	1287.0
Bronx	1032.2
Richmond	991.6
Herkimer	784.7
Monroe	669.7
Suffolk	583.6
Westchester	571.0
Dutchess	327.2
Niagara	310.7