

Merging data by city name

Monday, January 29, 2018 08:40:10 PM 1

Obs	city_name	fr_population	crime	state	wiki_population	violent_crime
1	Albuquerque	.	5018	New Mexico	553684	749.7
2	Anaheim	1261000	3341	California	344526	371.2
3	Atlanta	1330000	2805	Georgia	437041	1379.0
4	Bakersfield	331000	3306	California	355696	542.3
5	Baltimore	1981000	4256	Maryland	625474	1405.2
6	Boston	3239000	2835	Massachusetts	630648	835.0
7	Buffalo	1324000	2171	New York	262434	1288.7
8	Chicago	6815000	2680	Illinois	2708382	.
9	Cincinnati	1376000	1780	Ohio	296204	974.7
10	Cleveland	2068000	3162	Ohio	393781	1383.8
11	Corpus.Christi	297000	3077	Texas	312565	658.1
12	Dallas	1459000	3701	Texas	1241549	675.0
13	Denver	1129000	4095	Colorado	628545	615.9
14	Detroit	4127000	4283	Michigan	707096	2122.9
15	El.Paso	351000	2430	Texas	675536	423.2
16	Fort.Worth	680000	2927	Texas	770101	587.5
17	Fresno	415000	3863	California	506011	543.1
18	Greensboro	592000	1987	North Carolina	276134	563.1
19	Houston	1867000	3511	Texas	2177273	992.5
20	Indianapolis	1062000	2798	Indiana	838650	1185.5
21	Jacksonville	513000	4035	Florida	840660	617.3
22	Jersey.City	615000	2301	New Jersey	251554	734.2
23	Kansas.City	1231000	3748	Missouri	464073	1263.2
24	Los.Angeles	6860000	4852	California	3855122	481.1
25	Memphis	770000	2691	Tennessee	657436	1750.3
26	Miami	1150000	4460	Florida	414327	1172.0
27	Milwaukee	1344000	1929	Wisconsin	599395	1294.5
28	Minneapolis	1677000	3231	Minnesota	390240	992.2
29	Mobile	382000	2433	Alabama	251516	522.4
30	Nashville	536000	3185	Tennessee	620886	1216.0
31	New.Orleans	1064000	3467	Louisiana	362874	815.2
32	New.York	11551000	4732	New York	8289415	639.3
33	Newark	1881000	3261	New Jersey	278906	1154.5
34	Oklahoma.City	605000	2343	Oklahoma	595607	919.1
35	Omaha	525000	2663	Nebraska	417970	594.5
36	Philadelphia	4829000	1753	Pennsylvania	1538957	1160.1
37	Phoenix	872000	3962	Arizona	1485509	636.7
38	Pittsburgh	2387000	2127	Pennsylvania	312112	752.0

Obs	city_name	fr_population	crime	state	wiki_population	violent_crime
39	Portland	957000	3627	Oregon	598037	517.2
40	Sacramento	765000	3793	California	476557	738.6
41	San.Antonio	850000	3459	Texas	1380123	503.1
42	San.Diego	1221000	2587	California	1338477	413.1
43	San.Francisco	2999000	5441	California	820363	704.2
44	San.Jose	985000	3000	California	976459	363.3
45	Seattle	1340000	4329	Washington	626865	597.6
46	Tampa	924000	3247	Florida	350758	616.4
47	Toledo	678000	2050	Ohio	286020	1171.9
48	Tucson	.	2705	Arizona	531535	724.5
49	Tulsa	466000	2840	Oklahoma	398904	990.0
50	Washington	2751000	4019	District of Columbia	632323	1177.9
51	Wichita	406000	2532	Kansas	386409	742.5

Number of missing values for variables of interest**The MEANS Procedure**

Variable	N	N Miss
fr_population	49	2
crime	51	0
wiki_population	51	0
violent_crime	50	1

The change in population size from 1975 to 2012

Obs	city_name	fr_population	wiki_population	changed_population
1	Albuquerque	.	553684	.
2	Anaheim	1261000	344526	-916474
3	Atlanta	1330000	437041	-892959
4	Bakersfield	331000	355696	24696
5	Baltimore	1981000	625474	-1355526
6	Boston	3239000	630648	-2608352
7	Buffalo	1324000	262434	-1061566
8	Chicago	6815000	2708382	-4106618
9	Cincinnati	1376000	296204	-1079796
10	Cleveland	2068000	393781	-1674219
11	Corpus.Christi	297000	312565	15565
12	Dallas	1459000	1241549	-217451
13	Denver	1129000	628545	-500455
14	Detroit	4127000	707096	-3419904
15	El.Paso	351000	675536	324536
16	Fort.Worth	680000	770101	90101
17	Fresno	415000	506011	91011
18	Greensboro	592000	276134	-315866
19	Houston	1867000	2177273	310273
20	Indianapolis	1062000	838650	-223350
21	Jacksonville	513000	840660	327660
22	Jersey.City	615000	251554	-363446
23	Kansas.City	1231000	464073	-766927
24	Los.Angeles	6860000	3855122	-3004878
25	Memphis	770000	657436	-112564
26	Miami	1150000	414327	-735673
27	Milwaukee	1344000	599395	-744605
28	Minneapolis	1677000	390240	-1286760
29	Mobile	382000	251516	-130484
30	Nashville	536000	620886	84886
31	New.Orleans	1064000	362874	-701126
32	New.York	11551000	8289415	-3261585
33	Newark	1881000	278906	-1602094
34	Oklahoma.City	605000	595607	-9393
35	Omaha	525000	417970	-107030
36	Philadelphia	4829000	1538957	-3290043
37	Phoenix	872000	1485509	613509

The change in population size from 1975 to 2012

Obs	city_name	fr_population	wiki_population	changed_population
38	Pittsburgh	2387000	312112	-2074888
39	Portland	957000	598037	-358963
40	Sacramento	765000	476557	-288443
41	San.Antonio	850000	1380123	530123
42	San.Diego	1221000	1338477	117477
43	San.Francisco	2999000	820363	-2178637
44	San.Jose	985000	976459	-8541
45	Seattle	1340000	626865	-713135
46	Tampa	924000	350758	-573242
47	Toledo	678000	286020	-391980
48	Tucson	.	531535	.
49	Tulsa	466000	398904	-67096
50	Washington	2751000	632323	-2118677
51	Wichita	406000	386409	-19591

The cities which have decreased in population size

Obs	city_name	changed_population
1	Albuquerque	.
2	Tucson	.
3	Chicago	-4106618
4	Detroit	-3419904
5	Philadelphia	-3290043
6	New.York	-3261585
7	Los.Angeles	-3004878
8	Boston	-2608352
9	San.Francisco	-2178637
10	Washington	-2118677
11	Pittsburgh	-2074888
12	Cleveland	-1674219
13	Newark	-1602094
14	Baltimore	-1355526
15	Minneapolis	-1286760
16	Cincinnati	-1079796
17	Buffalo	-1061566
18	Anaheim	-916474
19	Atlanta	-892959
20	Kansas.City	-766927
21	Milwaukee	-744605
22	Miami	-735673
23	Seattle	-713135
24	New.Orleans	-701126
25	Tampa	-573242
26	Denver	-500455
27	Toledo	-391980
28	Jersey.City	-363446
29	Portland	-358963
30	Greensboro	-315866
31	Sacramento	-288443
32	Indianapolis	-223350
33	Dallas	-217451
34	Mobile	-130484
35	Memphis	-112564
36	Omaha	-107030
37	Tulsa	-67096

The cities which have decreased in population size

Obs	city_name	changed_population
38	Wichita	-19591
39	Oklahoma.City	-9393
40	San.Jose	-8541
41	Corpus.Christi	15565
42	Bakersfield	24696
43	Nashville	84886
44	Fort.Worth	90101
45	Fresno	91011
46	San.Diego	117477
47	Houston	310273
48	El.Paso	324536
49	Jacksonville	327660
50	San.Antonio	530123
51	Phoenix	613509

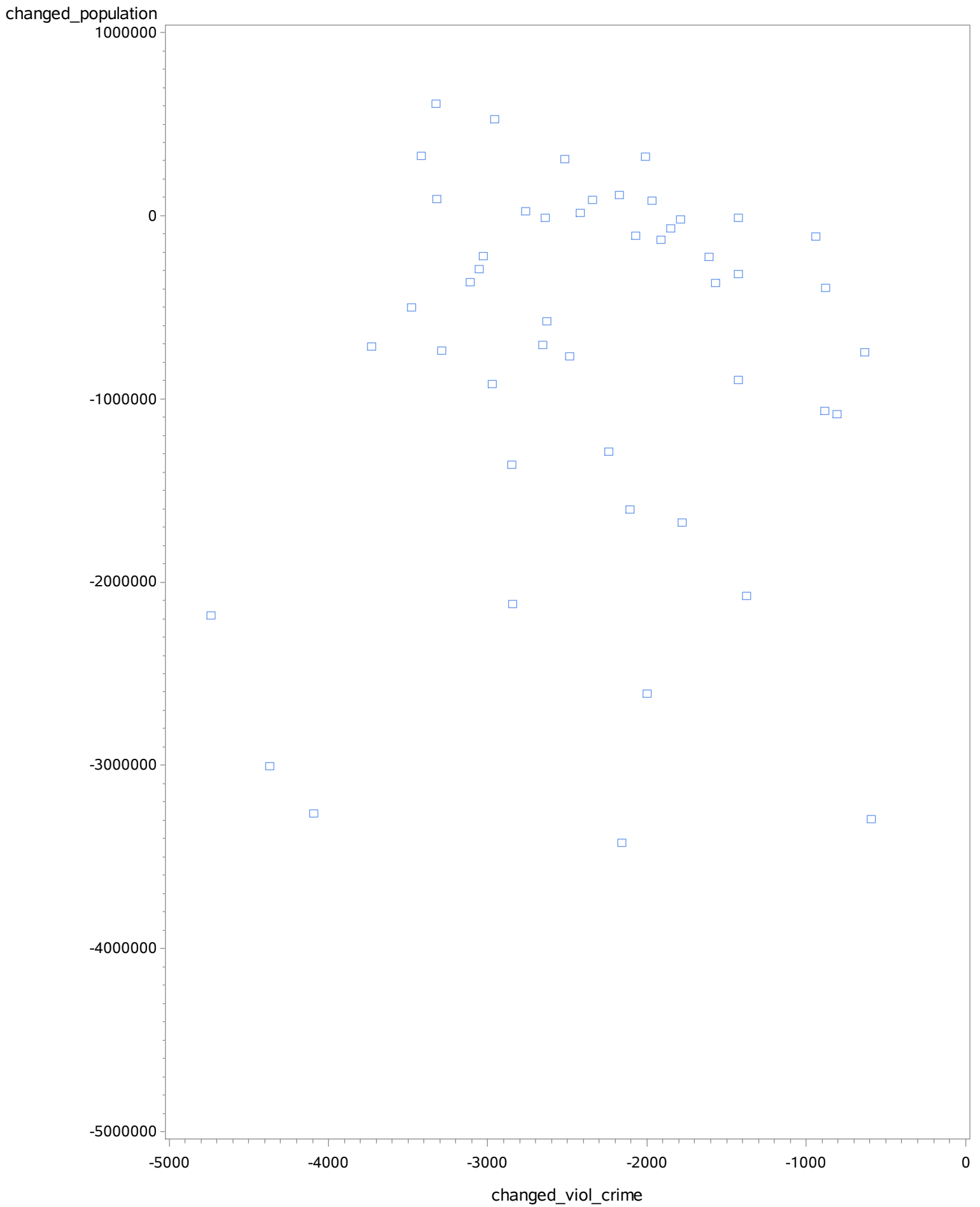
The change in violent crime from 1975 to 2012

Obs	city_name	crime	violent_crime	changed_viol_crime
1	Albuquerque	5018	749.7	-4268.3
2	Anaheim	3341	371.2	-2969.8
3	Atlanta	2805	1379.0	-1426.0
4	Bakersfield	3306	542.3	-2763.7
5	Baltimore	4256	1405.2	-2850.8
6	Boston	2835	835.0	-2000.0
7	Buffalo	2171	1288.7	-882.3
8	Chicago	2680	.	.
9	Cincinnati	1780	974.7	-805.3
10	Cleveland	3162	1383.8	-1778.2
11	Corpus.Christi	3077	658.1	-2418.9
12	Dallas	3701	675.0	-3026.0
13	Denver	4095	615.9	-3479.1
14	Detroit	4283	2122.9	-2160.1
15	El.Paso	2430	423.2	-2006.8
16	Fort.Worth	2927	587.5	-2339.5
17	Fresno	3863	543.1	-3319.9
18	Greensboro	1987	563.1	-1423.9
19	Houston	3511	992.5	-2518.5
20	Indianapolis	2798	1185.5	-1612.5
21	Jacksonville	4035	617.3	-3417.7
22	Jersey.City	2301	734.2	-1566.8
23	Kansas.City	3748	1263.2	-2484.8
24	Los.Angeles	4852	481.1	-4370.9
25	Memphis	2691	1750.3	-940.7
26	Miami	4460	1172.0	-3288.0
27	Milwaukee	1929	1294.5	-634.5
28	Minneapolis	3231	992.2	-2238.8
29	Mobile	2433	522.4	-1910.6
30	Nashville	3185	1216.0	-1969.0
31	New.Orleans	3467	815.2	-2651.8
32	New.York	4732	639.3	-4092.7
33	Newark	3261	1154.5	-2106.5
34	Oklahoma.City	2343	919.1	-1423.9
35	Omaha	2663	594.5	-2068.5
36	Philadelphia	1753	1160.1	-592.9
37	Phoenix	3962	636.7	-3325.3

The change in violent crime from 1975 to 2012

Obs	city_name	crime	violent_crime	changed_viol_crime
38	Pittsburgh	2127	752.0	-1375.0
39	Portland	3627	517.2	-3109.8
40	Sacramento	3793	738.6	-3054.4
41	San.Antonio	3459	503.1	-2955.9
42	San.Diego	2587	413.1	-2173.9
43	San.Francisco	5441	704.2	-4736.8
44	San.Jose	3000	363.3	-2636.7
45	Seattle	4329	597.6	-3731.4
46	Tampa	3247	616.4	-2630.6
47	Toledo	2050	1171.9	-878.1
48	Tucson	2705	724.5	-1980.5
49	Tulsa	2840	990.0	-1850.0
50	Washington	4019	1177.9	-2841.1
51	Wichita	2532	742.5	-1789.5

The changes in population vs the changes in crime rate



The changes in population vs the changes in crime rate

The CORR Procedure

2 Variables:	changed_viol_crime changed_population
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Simple Statistics						
Variable	N	Mean	Std Dev	Sum	Minimum	Maximum
changed_viol_crime	50	-2378	990.02526	-118877	-4737	-592.90000
changed_population	49	-831684	1148406	-40752500	-4106618	613509

Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations		
	changed_viol_crime	changed_population
changed_viol_crime	1.00000 50	0.07599 0.6077 48
changed_population	0.07599 0.6077 48	1.00000 49

The ranks of the cities in terms of their crime

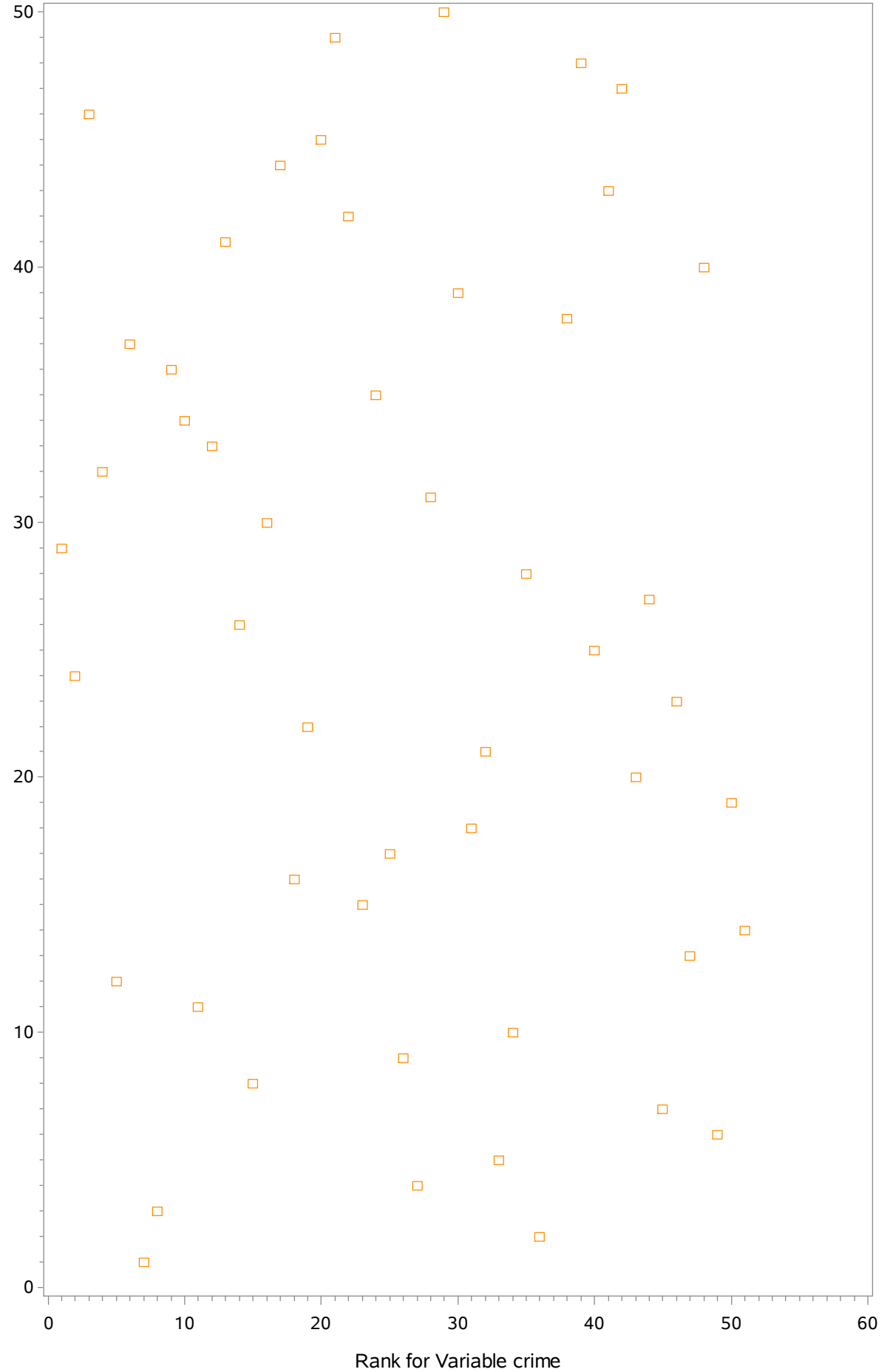
Obs	city_name	crime	violent_crime	fr_rank	wiki_rank
1	Albuquerque	5018	749.7	2	24
2	Anaheim	3341	371.2	21	49
3	Atlanta	2805	1379.0	33	5
4	Bakersfield	3306	542.3	22	42
5	Baltimore	4256	1405.2	8	3
6	Boston	2835	835.0	32	21
7	Buffalo	2171	1288.7	45	7
8	Chicago	2680	.	37	.
9	Cincinnati	1780	974.7	50	19
10	Cleveland	3162	1383.8	27	4
11	Corpus.Christi	3077	658.1	28	31
12	Dallas	3701	675.0	16	30
13	Denver	4095	615.9	9	36
14	Detroit	4283	2122.9	7	1
15	El.Paso	2430	423.2	42	47
16	Fort.Worth	2927	587.5	30	39
17	Fresno	3863	543.1	13	41
18	Greensboro	1987	563.1	48	40
19	Houston	3511	992.5	18	16
20	Indianapolis	2798	1185.5	34	10
21	Jacksonville	4035	617.3	10	34
22	Jersey.City	2301	734.2	44	27
23	Kansas.City	3748	1263.2	15	8
24	Los.Angeles	4852	481.1	3	46
25	Memphis	2691	1750.3	36	2
26	Miami	4460	1172.0	5	12
27	Milwaukee	1929	1294.5	49	6
28	Minneapolis	3231	992.2	25	17
29	Mobile	2433	522.4	41	43
30	Nashville	3185	1216.0	26	9
31	New.Orleans	3467	815.2	19	22
32	New.York	4732	639.3	4	32
33	Newark	3261	1154.5	23	15
34	Oklahoma.City	2343	919.1	43	20
35	Omaha	2663	594.5	38	38
36	Philadelphia	1753	1160.1	51	14
37	Phoenix	3962	636.7	12	33

The ranks of the cities in terms of their crime

Obs	city_name	crime	violent_crime	fr_rank	wiki_rank
38	Pittsburgh	2127	752.0	46	23
39	Portland	3627	517.2	17	44
40	Sacramento	3793	738.6	14	26
41	San.Antonio	3459	503.1	20	45
42	San.Diego	2587	413.1	39	48
43	San.Francisco	5441	704.2	1	29
44	San.Jose	3000	363.3	29	50
45	Seattle	4329	597.6	6	37
46	Tampa	3247	616.4	24	35
47	Toledo	2050	1171.9	47	13
48	Tucson	2705	724.5	35	28
49	Tulsa	2840	990.0	31	18
50	Washington	4019	1177.9	11	11
51	Wichita	2532	742.5	40	25

The ranks on Wikipedia vs ranks in Freedman

Rank for Variable violent_crime



The ranks on Wikipedia vs ranks in Freedman

The CORR Procedure

2 Variables: fr_rank wiki_rank

Simple Statistics							
Variable	N	Mean	Std Dev	Sum	Minimum	Maximum	Label
fr_rank	51	26.00000	14.86607	1326	1.00000	51.00000	Rank for Variable crime
wiki_rank	50	25.50000	14.57738	1275	1.00000	50.00000	Rank for Variable violent_crime

Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations		
	fr_rank	wiki_rank
fr_rank Rank for Variable crime	1.00000 51	-0.09736 0.5012 50
wiki_rank Rank for Variable violent_crime	-0.09736 0.5012 50	1.00000 50

The cities with the lowest and highest crime rates for each state

Obs	state	lowCrime	lowCrimeCity	highCrime	highCrimeCity
1	Alabama	522.4	Mobile	522.4	Mobile
2	Alaska	828.7	Anchorage	828.7	Anchorage
3	Arizona	399.7	Mesa	724.5	Tucson
4	California	363.3	San.Jose	1993.3	Oakland
5	Colorado	425.3	Aurora	615.9	Denver
6	District of Columbia	1177.9	Washington	1177.9	Washington
7	Florida	616.4	Tampa	1172.0	Miami
8	Georgia	1379.0	Atlanta	1379.0	Atlanta
9	Illinois	.	Chicago	.	Chicago
10	Indiana	362.8	Fort.Wayne	1185.5	Indianapolis
11	Kansas	742.5	Wichita	742.5	Wichita
12	Kentucky	352.6	Lexington	598.8	Louisville.Metro
13	Louisiana	815.2	New.Orleans	815.2	New.Orleans
14	Maryland	1405.2	Baltimore	1405.2	Baltimore
15	Massachusetts	835.0	Boston	835.0	Boston
16	Michigan	2122.9	Detroit	2122.9	Detroit
17	Minnesota	722.7	St..Paul	992.2	Minneapolis
18	Missouri	1263.2	Kansas.City	1776.5	St..Louis
19	Nebraska	397.5	Lincoln	594.5	Omaha
20	Nevada	168.9	Henderson	784.0	Las.Vegas
21	New Jersey	734.2	Jersey.City	1154.5	Newark
22	New Mexico	749.7	Albuquerque	749.7	Albuquerque
23	New York	639.3	New.York	1288.7	Buffalo
24	North Carolina	423.2	Raleigh	647.9	Charlotte-Mecklenbur
25	Ohio	974.7	Cincinnati	1383.8	Cleveland
26	Oklahoma	919.1	Oklahoma.City	990.0	Tulsa
27	Oregon	517.2	Portland	517.2	Portland
28	Pennsylvania	752.0	Pittsburgh	1160.1	Philadelphia
29	Tennessee	1216.0	Nashville	1750.3	Memphis
30	Texas	130.7	Plano	992.5	Houston
31	Virginia	169.4	Virginia.Beach	169.4	Virginia.Beach
32	Washington	597.6	Seattle	597.6	Seattle
33	Wisconsin	1294.5	Milwaukee	1294.5	Milwaukee