AddLocationNumber ReadMe

Introduction: This part adds 'location' column to the business dataset using addlocation.py.

Phoenix is divided into 20×35 blocks by latitude and longitude. These blocks are numbered from east to west and north to south from 1 to 700. Since there're 'latitude' and 'longitude' columns in business dataset, so I add these location number as a column to every business record and that's in the area and write them to another file.

Also, the number of businesses in each block is counted. And the output is used to draw a heat map in excel.

Input: yelp_business_clean.csv
Output: yelp_business_location.csv, bizLocationHeatMap

ScreenShot(original map is bizLocationHeatMap in input&output folder):

#																				
1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	56	18	11	58	##	85
2	0	0	0	0	0	0	0	0	5	1	0	0	0	1	2	1	1	22	##	##
3	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	5	50	83
4	0	0	0	0	0	0	3	1	0	1	1	0	3	3	2	0	0	1	32	##
5	1	0	0	0	0	0	0	2	77	2	18	8	19	20	20	24	50	15	8	63
6	0	0	0	0	1	0	1	0	12	4	22	8	10	45	4	13	11	12	10	##
7	0	0	1	1	0	0	0	0	0	1	1	4	5	19	12	13	15	44	49	54
8	0	18	28	0	17	25	6	1	3	4	5	4	3	16	15	31	13	14	44	67
9	12	8	4	20	3	3	5	3	3	11	28	31	48	##	87	41	62	##	46	37
10	7	19	##	10	14	21	11	15	47	18	11	20	45	##	##	66	49	40	81	28
11	1	6	2	28	13	74	12	6	3	10	44	37	31	##	##	88	77	##	##	25
12	1	41	18	10	15	21	21	6	36	33	30	29	52	##	##	##	##	##	##	58
13	0	7	10	23	11	6	25	26	23	28	34	59	##	##	##	##	70	##	2	
14	2	6	2	93	13	12	16	##	51	33	50	33	65	14	##	84	6	14	3	19
15	0	3	33	57	2	4	18	23	31	22	38	53	67	4	56	39	2	0	0	7
16	4	14	4	44	21	7	9	23	47	36	55	99	68	73	##	4	1	9	0	1
17	1	14	22	44	53	44	41	33	34	41	72	##	33	0	14	37	9	96	57	84
18	11	32	25	42	86	50	41	67	68	51	50	61	31	3	57	70	8	92	##	##
19	3	6	8	2	36	18	5	41	10	2	68	15	28	4	33	2	70	70	32	48
20	18	17	41	20	80		76	##	44	67	53	80	63	55	##	37	##	##	95	54
21	1	8	5	38	86	7	88	##	26	24	43	70	60	27	48	9	55	23	6	16
22	0	1	22	11	59	25	43	48	5	2	12	63	81	50	5	17	92	4	23	##
23	1	0	6	4	2	2	1	1	2	17	10	17	50	3	1	13	3	10	3	1
24	0	0	87	8	0	0	54	2	2	16	25	##	29	0	0	0	1	0	0	0
25	3	1	1	2	1	0	1	2	1	2	2	4	2	2	0	0	0	0	3	6
26	8	0	0	0	0	0	2	0	0	0	2	3	3	0	0	0	0	0	59	19
27	1	0	0	0	0	0	0	0	0	0	2	2	0	11	0	1	0	0	20	3
28	0	0	0	0	0	0	0	0	0	0	1	8	0	0	1	0	0	0	2	4
29	0	0	2	1	1	1	0	0	0	1	48	26	0	1	19	1	0	0	7	20
30	0	0	0	0	0	0	0	0	0	0	2	0	3	0	0	1	2	2	1	0
31	0	0	0	1	0	0	0	0	0	0	30	7	1	1	0	2	0	0	0	0
32	0	0	0	7	1	0	0	0	0	7	48	10	2	0	0	1	0	0	0	0
33	0	3	0	0	0	0	0	0	0	83	17	0	0	1	1	1	0	0	0	1
34	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	2	4	0	0	0	0	0	0	0	0	0