

# Week-3

July 3, 2020

You are currently looking at *version 1.0* of this notebook. To download notebooks and datafiles, as well as get help on Jupyter notebooks in the Coursera platform, visit the [Jupyter Notebook FAQ](#) course resource.

## 1 Merging Dataframes

```
[1]: import pandas as pd
df = pd.read_csv('census.csv')
(df.where(df['SUMLEV'] == 50)
 .dropna()
 .set_index(['STNAME', 'CTYNAME'])
 .rename(columns={'ESTIMATESBASE2010': 'Estimates Base 2010'}))
```

```
[1]:
```

STNAME	CTYNAME	SUMLEV	REGION	DIVISION	STATE	COUNTY \
Alabama	Autauga County	50.0	3.0	6.0	1.0	1.0
	Baldwin County	50.0	3.0	6.0	1.0	3.0
	Barbour County	50.0	3.0	6.0	1.0	5.0
	Bibb County	50.0	3.0	6.0	1.0	7.0
	Blount County	50.0	3.0	6.0	1.0	9.0
	Bullock County	50.0	3.0	6.0	1.0	11.0
	Butler County	50.0	3.0	6.0	1.0	13.0
	Calhoun County	50.0	3.0	6.0	1.0	15.0
	Chambers County	50.0	3.0	6.0	1.0	17.0
	Cherokee County	50.0	3.0	6.0	1.0	19.0
	Chilton County	50.0	3.0	6.0	1.0	21.0
	Choctaw County	50.0	3.0	6.0	1.0	23.0
	Clarke County	50.0	3.0	6.0	1.0	25.0
	Clay County	50.0	3.0	6.0	1.0	27.0
	Cleburne County	50.0	3.0	6.0	1.0	29.0
	Coffee County	50.0	3.0	6.0	1.0	31.0
	Colbert County	50.0	3.0	6.0	1.0	33.0
	Conecuh County	50.0	3.0	6.0	1.0	35.0
	Coosa County	50.0	3.0	6.0	1.0	37.0
	Covington County	50.0	3.0	6.0	1.0	39.0

	Crenshaw County	50.0	3.0	6.0	1.0	41.0
	Cullman County	50.0	3.0	6.0	1.0	43.0
	Dale County	50.0	3.0	6.0	1.0	45.0
	Dallas County	50.0	3.0	6.0	1.0	47.0
	DeKalb County	50.0	3.0	6.0	1.0	49.0
	Elmore County	50.0	3.0	6.0	1.0	51.0
	Escambia County	50.0	3.0	6.0	1.0	53.0
	Etowah County	50.0	3.0	6.0	1.0	55.0
	Fayette County	50.0	3.0	6.0	1.0	57.0
	Franklin County	50.0	3.0	6.0	1.0	59.0
...		...	...	...	...	...
Wisconsin	Washburn County	50.0	2.0	3.0	55.0	129.0
	Washington County	50.0	2.0	3.0	55.0	131.0
	Waukesha County	50.0	2.0	3.0	55.0	133.0
	Waupaca County	50.0	2.0	3.0	55.0	135.0
	Waushara County	50.0	2.0	3.0	55.0	137.0
	Winnebago County	50.0	2.0	3.0	55.0	139.0
	Wood County	50.0	2.0	3.0	55.0	141.0
Wyoming	Albany County	50.0	4.0	8.0	56.0	1.0
	Big Horn County	50.0	4.0	8.0	56.0	3.0
	Campbell County	50.0	4.0	8.0	56.0	5.0
	Carbon County	50.0	4.0	8.0	56.0	7.0
	Converse County	50.0	4.0	8.0	56.0	9.0
	Crook County	50.0	4.0	8.0	56.0	11.0
	Fremont County	50.0	4.0	8.0	56.0	13.0
	Goshen County	50.0	4.0	8.0	56.0	15.0
	Hot Springs County	50.0	4.0	8.0	56.0	17.0
	Johnson County	50.0	4.0	8.0	56.0	19.0
	Laramie County	50.0	4.0	8.0	56.0	21.0
	Lincoln County	50.0	4.0	8.0	56.0	23.0
	Natrona County	50.0	4.0	8.0	56.0	25.0
	Niobrara County	50.0	4.0	8.0	56.0	27.0
	Park County	50.0	4.0	8.0	56.0	29.0
	Platte County	50.0	4.0	8.0	56.0	31.0
	Sheridan County	50.0	4.0	8.0	56.0	33.0
	Sublette County	50.0	4.0	8.0	56.0	35.0
	Sweetwater County	50.0	4.0	8.0	56.0	37.0
	Teton County	50.0	4.0	8.0	56.0	39.0
	Uinta County	50.0	4.0	8.0	56.0	41.0
	Washakie County	50.0	4.0	8.0	56.0	43.0
	Weston County	50.0	4.0	8.0	56.0	45.0

STNAME	CTYNAME	CENSUS2010POP	Estimates	Base 2010	\
Alabama	Autauga County	54571.0		54571.0	
	Baldwin County	182265.0		182265.0	
	Barbour County	27457.0		27457.0	

	Bibb County	22915.0	22919.0
	Blount County	57322.0	57322.0
	Bullock County	10914.0	10915.0
	Butler County	20947.0	20946.0
	Calhoun County	118572.0	118586.0
	Chambers County	34215.0	34170.0
	Cherokee County	25989.0	25986.0
	Chilton County	43643.0	43631.0
	Choctaw County	13859.0	13858.0
	Clarke County	25833.0	25840.0
	Clay County	13932.0	13932.0
	Cleburne County	14972.0	14972.0
	Coffee County	49948.0	49948.0
	Colbert County	54428.0	54428.0
	Conecuh County	13228.0	13228.0
	Coosa County	11539.0	11758.0
	Covington County	37765.0	37765.0
	Crenshaw County	13906.0	13906.0
	Cullman County	80406.0	80410.0
	Dale County	50251.0	50251.0
	Dallas County	43820.0	43820.0
	DeKalb County	71109.0	71115.0
	Elmore County	79303.0	79296.0
	Escambia County	38319.0	38319.0
	Etowah County	104430.0	104427.0
	Fayette County	17241.0	17241.0
	Franklin County	31704.0	31709.0
...		...	...
Wisconsin	Washburn County	15911.0	15911.0
	Washington County	131887.0	131885.0
	Waukesha County	389891.0	389938.0
	Waupaca County	52410.0	52410.0
	Waushara County	24496.0	24496.0
	Winnebago County	166994.0	166994.0
	Wood County	74749.0	74749.0
Wyoming	Albany County	36299.0	36299.0
	Big Horn County	11668.0	11668.0
	Campbell County	46133.0	46133.0
	Carbon County	15885.0	15885.0
	Converse County	13833.0	13833.0
	Crook County	7083.0	7083.0
	Fremont County	40123.0	40123.0
	Goshen County	13249.0	13247.0
	Hot Springs County	4812.0	4812.0
	Johnson County	8569.0	8569.0
	Laramie County	91738.0	91881.0
	Lincoln County	18106.0	18106.0

Natrona County	75450.0	75450.0
Niobrara County	2484.0	2484.0
Park County	28205.0	28205.0
Platte County	8667.0	8667.0
Sheridan County	29116.0	29116.0
Sublette County	10247.0	10247.0
Sweetwater County	43806.0	43806.0
Teton County	21294.0	21294.0
Uinta County	21118.0	21118.0
Washakie County	8533.0	8533.0
Weston County	7208.0	7208.0

STNAME	CTYNAME	POPESTIMATE2010	POPESTIMATE2011 \
Alabama	Autauga County	54660.0	55253.0
	Baldwin County	183193.0	186659.0
	Barbour County	27341.0	27226.0
	Bibb County	22861.0	22733.0
	Blount County	57373.0	57711.0
	Bullock County	10887.0	10629.0
	Butler County	20944.0	20673.0
	Calhoun County	118437.0	117768.0
	Chambers County	34098.0	33993.0
	Cherokee County	25976.0	26080.0
	Chilton County	43665.0	43739.0
	Choctaw County	13841.0	13593.0
	Clarke County	25767.0	25570.0
	Clay County	13880.0	13670.0
	Cleburne County	14973.0	14971.0
	Coffee County	50177.0	50448.0
	Colbert County	54514.0	54443.0
	Conecuh County	13208.0	13121.0
	Coosa County	11758.0	11348.0
	Covington County	37796.0	38060.0
	Crenshaw County	13853.0	13896.0
	Cullman County	80473.0	80469.0
	Dale County	50358.0	50109.0
	Dallas County	43803.0	43178.0
	DeKalb County	71142.0	71387.0
	Elmore County	79465.0	80012.0
	Escambia County	38309.0	38213.0
	Etowah County	104442.0	104236.0
	Fayette County	17231.0	17062.0
	Franklin County	31734.0	31729.0
...	...	...	...
Wisconsin	Washburn County	15930.0	15784.0
	Washington County	131967.0	132225.0

	Waukesha County	390076.0	390808.0
	Waupaca County	52422.0	52342.0
	Waushara County	24506.0	24581.0
	Winnebago County	167059.0	167630.0
	Wood County	74807.0	74647.0
Wyoming	Albany County	36428.0	36908.0
	Big Horn County	11672.0	11745.0
	Campbell County	46244.0	46600.0
	Carbon County	15837.0	15817.0
	Converse County	13826.0	13728.0
	Crook County	7114.0	7129.0
	Fremont County	40222.0	40591.0
	Goshen County	13408.0	13597.0
	Hot Springs County	4813.0	4818.0
	Johnson County	8581.0	8636.0
	Laramie County	92271.0	92663.0
	Lincoln County	18091.0	18022.0
	Natrona County	75472.0	76420.0
	Niobrara County	2492.0	2485.0
	Park County	28259.0	28473.0
	Platte County	8678.0	8701.0
	Sheridan County	29146.0	29275.0
	Sublette County	10244.0	10142.0
	Sweetwater County	43593.0	44041.0
	Teton County	21297.0	21482.0
	Uinta County	21102.0	20912.0
	Washakie County	8545.0	8469.0
	Weston County	7181.0	7114.0

STNAME	CTYNAME	POPESTIMATE2012	...	RDOMESTICMIG2011 \
Alabama	Autauga County	55175.0	...	7.242091
	Baldwin County	190396.0	...	14.832960
	Barbour County	27159.0	...	-4.728132
	Bibb County	22642.0	...	-5.527043
	Blount County	57776.0	...	1.807375
	Bullock County	10606.0	...	-30.953709
	Butler County	20408.0	...	-14.032727
	Calhoun County	117286.0	...	-6.155670
	Chambers County	34075.0	...	-2.731639
	Cherokee County	26023.0	...	6.339327
	Chilton County	43697.0	...	-1.372935
	Choctaw County	13543.0	...	-15.455274
	Clarke County	25144.0	...	-6.194363
	Clay County	13456.0	...	-10.744102
	Cleburne County	14921.0	...	-3.673524
	Coffee County	51173.0	...	0.377640

	Colbert County	54472.0	...	-0.073423
	Conecuh County	12996.0	...	-4.861559
	Coosa County	11195.0	...	-33.930581
	Covington County	37818.0	...	6.696899
	Crenshaw County	13951.0	...	1.729792
	Cullman County	80374.0	...	-1.404233
	Dale County	50324.0	...	-10.749798
	Dallas County	42777.0	...	-15.635599
	DeKalb County	70942.0	...	0.294677
	Elmore County	80432.0	...	3.235576
	Escambia County	38034.0	...	-3.449988
	Etowah County	104235.0	...	-1.015919
	Fayette County	16960.0	...	-5.015601
	Franklin County	31648.0	...	-1.638750
...	...	...	...	...
Wisconsin	Washburn County	15831.0	...	-6.873936
	Washington County	132649.0	...	-0.794876
	Waukesha County	392710.0	...	-0.765799
	Waupaca County	52035.0	...	3.111756
	Waushara County	24484.0	...	4.930022
	Winnebago County	168717.0	...	0.316712
	Wood County	74384.0	...	-4.081523
Wyoming	Albany County	37396.0	...	3.708956
	Big Horn County	11785.0	...	4.868258
	Campbell County	47881.0	...	-2.843479
	Carbon County	15678.0	...	-7.581980
	Converse County	14025.0	...	-12.847499
	Crook County	7148.0	...	-1.544618
	Fremont County	41129.0	...	2.747083
	Goshen County	13666.0	...	14.293649
	Hot Springs County	4846.0	...	3.322604
	Johnson County	8610.0	...	4.995063
	Laramie County	94894.0	...	-1.200428
	Lincoln County	17943.0	...	-9.802564
	Natrona County	78699.0	...	7.189319
	Niobrara County	2475.0	...	-0.401849
	Park County	28863.0	...	4.582951
	Platte County	8732.0	...	4.373094
	Sheridan County	29594.0	...	0.958559
	Sublette County	10418.0	...	-23.741784
	Sweetwater County	45104.0	...	1.072643
	Teton County	21697.0	...	-1.589565
	Uinta County	20989.0	...	-17.755986
	Washakie County	8443.0	...	-11.637475
	Weston County	7065.0	...	-11.752361

RDOMESTICMIG2012 RDOMESTICMIG2013 \

STNAME	CTYNAME		
Alabama	Autauga County	-2.915927	-3.012349
	Baldwin County	17.647293	21.845705
	Barbour County	-2.500690	-7.056824
	Bibb County	-5.068871	-6.201001
	Blount County	-1.177622	-1.748766
	Bullock County	-5.180127	-1.130263
	Butler County	-11.684234	-5.655413
	Calhoun County	-4.611706	-5.524649
	Chambers County	3.849092	2.872721
	Cherokee County	1.113180	5.488706
	Chilton County	-2.653369	0.480044
	Choctaw County	-0.737028	-8.766391
	Clarke County	-17.667705	-0.318345
	Clay County	-13.345130	4.902871
	Cleburne County	-5.151880	7.345821
	Coffee County	7.675579	-13.146535
	Colbert County	1.065051	1.762390
	Conecuh County	-7.504690	-6.107224
	Coosa County	-10.291443	-4.313831
	Covington County	-4.612668	0.740271
	Crenshaw County	3.950156	-1.864936
	Cullman County	-1.019628	4.071247
	Dale County	-5.277150	-15.236079
	Dallas County	-11.308243	-16.745678
	DeKalb County	-9.302391	-1.748807
	Elmore County	0.822717	1.760531
	Escambia County	-3.855889	-4.822706
	Etowah County	2.062637	-1.931884
	Fayette County	-0.646640	-3.725937
	Franklin County	-5.459394	-8.043702
...	...	...	...
Wisconsin	Washburn County	7.338289	-6.732724
	Washington County	0.785279	-2.215465
	Waukesha County	2.128860	0.038132
	Waupaca County	-2.241873	6.292687
	Waushara County	-2.404973	-4.097017
	Winnebago County	2.889873	0.833819
	Wood County	-5.019090	-6.901200
Wyoming	Albany County	2.637812	-3.544634
	Big Horn County	2.804930	16.815908
	Campbell County	15.601020	-5.895711
	Carbon County	-13.081441	3.178134
	Converse County	15.493820	19.035533
	Crook County	-4.202564	1.397819
	Fremont County	7.782673	-4.990688
	Goshen County	3.961413	-8.079028

Hot Springs County	6.208609	3.095336
Johnson County	-4.058912	-0.812583
Laramie County	15.547274	4.787847
Lincoln County	-11.566801	13.564556
Natrona County	23.066162	24.322042
Niobrara County	0.806452	29.066295
Park County	8.057765	7.641997
Platte County	5.392073	2.634593
Sheridan County	8.425487	4.546373
Sublette County	15.272374	-40.870074
Sweetwater County	16.243199	-5.339774
Teton County	0.972695	19.525929
Uinta County	-4.916350	-6.902954
Washakie County	-0.827815	-2.013502
Weston County	-8.040059	12.372583

STNAME	CTYNAME	RDOMESTICMIG2014	RDOMESTICMIG2015	RNETMIG2011 \
Alabama	Autauga County	2.265971	-2.530799	7.606016
	Baldwin County	19.243287	17.197872	15.844176
	Barbour County	-3.904217	-10.543299	-4.874741
	Bibb County	-0.177537	0.177258	-5.088389
	Blount County	-2.062535	-1.369970	1.859511
	Bullock County	14.354290	-16.167247	-29.001673
	Butler County	1.085428	-6.529805	-13.936612
	Calhoun County	-4.463211	-3.376322	-5.791579
	Chambers County	-2.287222	1.349468	-1.821092
	Cherokee County	-0.076806	-3.239866	6.416167
	Chilton County	0.456017	-2.253483	-0.823761
	Choctaw County	-1.274984	-5.291205	-15.528177
	Clarke County	-8.686428	-5.613667	-6.077488
	Clay County	5.702648	3.912450	-10.816697
	Cleburne County	3.654485	-3.123961	-3.673524
	Coffee County	-3.602859	2.214774	2.166460
	Colbert County	1.835688	-0.110260	0.513964
	Conecuh County	-14.645416	2.684140	-4.861559
	Coosa County	-22.958017	-5.387581	-34.017138
	Covington County	3.697932	-0.316945	6.881460
	Crenshaw County	3.084648	3.439504	2.666763
	Cullman County	5.087142	7.915406	-1.031427
	Dale County	-11.979785	-5.107706	-9.575283
	Dallas County	-9.344789	-14.687232	-15.727573
	DeKalb County	0.267830	0.028141	1.375159
	Elmore County	-1.507057	2.067820	3.674511
	Escambia County	-1.189831	1.190902	-3.397716
	Etowah County	-1.726932	-2.082234	-0.632554
	Fayette County	0.296745	-2.797536	-5.132243



	Franklin County	-1.267849	-2.401719	0.063029
...		...	...	...
Wisconsin	Washburn County	3.510452	-5.123279	-6.747809
	Washington County	1.601149	-0.434498	-0.431504
	Waukesha County	0.760109	-0.719858	0.102448
	Waupaca County	-0.441031	-0.480617	3.359933
	Waushara County	-4.906711	-4.397793	5.174486
	Winnebago County	-2.406192	-4.557985	0.842573
	Wood County	-5.596471	-3.958322	-3.733590
Wyoming	Albany County	-3.334877	-9.911169	6.736119
	Big Horn County	-8.026420	5.095861	4.868258
	Campbell County	-8.550911	10.916963	-2.649606
	Carbon County	-2.970641	-23.300971	-7.392431
	Converse County	-20.550587	-0.070403	-12.774915
	Crook County	6.378258	18.629317	-0.982939
	Fremont County	-12.331633	-13.673610	3.093562
	Goshen County	-7.017803	-11.899450	14.886132
	Hot Springs County	-6.017222	-5.454164	5.191569
	Johnson County	-10.715742	0.933652	5.227392
	Laramie County	-1.226133	0.278940	-0.973320
	Lincoln County	6.125989	1.555544	-9.691801
	Natrona County	-0.958472	-0.061057	7.689674
	Niobrara County	-12.603387	7.492114	-0.401849
	Park County	-9.252437	-2.878980	6.486639
	Platte County	6.055759	4.662270	4.373094
	Sheridan County	3.678069	-3.298406	2.122524
	Sublette County	-16.596273	-22.870900	-21.092907
	Sweetwater County	-14.252889	-14.248864	1.255221
	Teton County	14.143021	-0.564849	0.654527
	Uinta County	-14.215862	-12.127022	-18.136812
	Washakie County	-17.781491	1.682288	-11.990126
	Weston County	1.533635	6.935294	-12.032179

STNAME	CTYNAME	RNETMIG2012	RNETMIG2013	RNETMIG2014 \
Alabama	Autauga County	-2.626146	-2.722002	2.592270
	Baldwin County	18.559627	22.727626	20.317142
	Barbour County	-2.758113	-7.167664	-3.978583
	Bibb County	-4.363636	-5.403729	0.754533
	Blount County	-0.848580	-1.402476	-1.577232
	Bullock County	-2.825524	1.507017	17.243790
	Butler County	-11.586865	-5.557058	1.184103
	Calhoun County	-4.092677	-5.062836	-3.912834
	Chambers County	4.701181	3.781439	-1.290228
	Cherokee County	1.420264	5.757384	0.230419
	Chilton County	-2.447504	0.868651	0.957636
	Choctaw County	-0.737028	-8.766391	-1.274984

	Clarke County	-17.509958	-0.159172	-8.486280
	Clay County	-13.345130	4.977157	5.776708
	Cleburne County	-5.151880	7.345821	3.654485
	Coffee County	11.513368	-10.438741	-0.767822
	Colbert County	1.469035	2.276420	2.533249
	Conecuh County	-7.504690	-6.107224	-14.645416
	Coosa County	-10.380162	-4.403703	-23.049483
	Covington County	-4.559952	0.793147	3.750759
	Crenshaw County	5.099293	-0.502098	4.734577
	Cullman County	-0.634159	4.542916	5.593387
	Dale County	-0.776637	-12.640155	-9.503292
	Dallas County	-11.378047	-16.792849	-9.368689
	DeKalb County	-8.656001	-1.029539	1.198187
	Elmore County	1.558176	2.306047	-0.951175
	Escambia County	-3.803428	-4.769999	-1.136950
	Etowah County	2.446383	-1.518596	-1.234901
	Fayette County	-0.705426	-3.785079	0.237396
	Franklin County	-3.471291	-5.700261	1.553115
...	...	...	...	...
Wisconsin	Washburn County	7.464811	-6.605691	3.638104
	Washington County	1.162817	-1.763330	2.104796
	Waukesha County	3.180527	1.189727	2.077633
	Waupaca County	-2.011937	6.561277	-0.134227
	Waushara County	-2.160399	-3.810226	-4.535615
	Winnebago County	3.502335	1.531624	-1.545153
	Wood County	-4.562809	-6.442917	-5.040889
Wyoming	Albany County	6.433032	0.719587	1.429233
	Big Horn County	3.144921	17.236306	-7.608378
	Campbell County	15.558684	-5.916543	-8.509402
	Carbon County	-12.636926	3.623073	-2.338590
	Converse County	16.502720	20.093063	-19.358233
	Crook County	-3.642222	2.096729	7.071547
	Fremont County	8.027411	-4.747240	-12.013555
	Goshen County	4.841727	-6.903896	-5.761986
	Hot Springs County	6.001656	2.888981	-6.224712
	Johnson County	-4.058912	-0.812583	-10.715742
	Laramie County	17.914554	6.003143	-0.207819
	Lincoln County	-11.566801	13.619696	6.234414
	Natrona County	23.749508	25.085233	-0.110593
	Niobrara County	0.806452	29.066295	-12.603387
	Park County	11.127389	10.877797	-5.585731
	Platte County	4.933173	2.176403	5.598720
	Sheridan County	9.342778	5.523001	4.781489
	Sublette County	16.828794	-39.211861	-14.409938
	Sweetwater County	16.243199	-5.295460	-14.075283
	Teton County	2.408578	21.160658	16.308671
	Uinta County	-5.536861	-7.521840	-14.740608

Washakie County	-1.182592	-2.250385	-18.020168
Weston County	-8.040059	12.372583	1.533635

# RNETMIG2015

STNAME	CTYNAME	
Alabama	Autauga County	-2.187333
	Baldwin County	18.293499
	Barbour County	-10.543299
	Bibb County	1.107861
	Blount County	-0.884411
	Bullock County	-13.193961
	Butler County	-6.430868
	Calhoun County	-2.806406
	Chambers County	2.346901
	Cherokee County	-2.931307
	Chilton County	-1.752709
	Choctaw County	-5.291205
	Clarke County	-5.411736
	Clay County	3.986270
	Cleburne County	-3.123961
	Coffee County	5.350738
	Colbert County	0.588052
	Conecuh County	2.684140
	Coosa County	-5.387581
	Covington County	-0.264121
	Crenshaw County	5.087600
	Cullman County	8.417777
	Dale County	-1.998668
	Dallas County	-14.711389
	DeKalb County	0.956790
	Elmore County	2.757093
	Escambia County	1.243830
	Etowah County	-1.588308
	Fayette County	-2.857058
	Franklin County	0.442422
...	...	
Wisconsin	Washburn County	-4.995197
	Washington County	0.059931
	Waukesha County	0.593567
	Waupaca County	-0.173022
	Waushara County	-4.024395
	Winnebago County	-3.685304
Wyoming	Wood County	-3.414223
	Albany County	-5.166460
	Big Horn County	5.513554
	Campbell County	10.978525
	Carbon County	-22.600668

Converse County	1.126443
Crook County	19.309219
Fremont County	-13.352750
Goshen County	-10.635133
Hot Springs County	-5.663940
Johnson County	0.933652
Laramie County	1.673640
Lincoln County	1.662823
Natrona County	0.793743
Niobrara County	7.492114
Park County	0.856839
Platte County	4.207414
Sheridan County	-2.198937
Sublette County	-20.664059
Sweetwater County	-14.070195
Teton County	1.520747
Uinta County	-12.606351
Washakie County	1.441961
Weston County	6.935294

[3142 rows x 98 columns]

```
[2]: import numpy as np

def kat_kich(qator):
    mal = qator[['POPESTIMATE2010',
                  'POPESTIMATE2011',
                  'POPESTIMATE2012',
                  'POPESTIMATE2013',
                  'POPESTIMATE2014',
                  'POPESTIMATE2015']]
    return pd.Series({'min': np.min(mal), 'max': np.max(mal)})

df.apply(kat_kich, axis=1)
```

```
[2]:
```

	max	min
0	4858979	4785161
1	55347	54660
2	203709	183193
3	27341	26489
4	22861	22512
5	57776	57373
6	10887	10606
7	20944	20154
8	118437	115620
9	34153	33993
10	26084	25859
11	43943	43665

12	13841	13170
13	25767	24675
14	13880	13456
15	15072	14921
16	51211	50177
17	54514	54354
18	13208	12662
19	11758	10724
20	38060	37796
21	13963	13853
22	82005	80374
23	50358	49501
24	43803	41131
25	71387	70869
26	81468	79465
27	38309	37784
28	104442	103057
29	17231	16759
...	...	...
3163	133674	131967
3164	396488	390076
3165	52422	51945
3166	24581	24033
3167	169639	167059
3168	74807	73435
3169	586107	564516
3170	37956	36428
3171	12022	11672
3172	49220	46244
3173	15856	15559
3174	14343	13728
3175	7444	7114
3176	41129	40222
3177	13666	13383
3178	4846	4741
3179	8636	8552
3180	97121	92271
3181	18722	17943
3182	82178	75472
3183	2548	2475
3184	29237	28259
3185	8812	8678
3186	30020	29146
3187	10418	9899
3188	45162	43593
3189	23125	21297
3190	21102	20822

```
3191      8545      8316
3192      7234      7065
```

```
[3193 rows x 2 columns]
```

```
[3]: def min_max(qator):
      mal = qator[['POPESTIMATE2010',
                    'POPESTIMATE2011',
                    'POPESTIMATE2012',
                    'POPESTIMATE2013',
                    'POPESTIMATE2014',
                    'POPESTIMATE2015']]
      qator['min'] = np.min(mal)
      qator['max'] = np.max(mal)
      return qator

df.apply(min_max, axis=1)
```

```
[3]:  SUMLEV  REGION  DIVISION  STATE  COUNTY  STNAME  CTYNAME \
0      40      3      6      1      0  Alabama  Alabama
1      50      3      6      1      1  Alabama  Autauga County
2      50      3      6      1      3  Alabama  Baldwin County
3      50      3      6      1      5  Alabama  Barbour County
4      50      3      6      1      7  Alabama  Bibb County
5      50      3      6      1      9  Alabama  Blount County
6      50      3      6      1     11  Alabama  Bullock County
7      50      3      6      1     13  Alabama  Butler County
8      50      3      6      1     15  Alabama  Calhoun County
9      50      3      6      1     17  Alabama  Chambers County
10     50      3      6      1     19  Alabama  Cherokee County
11     50      3      6      1     21  Alabama  Chilton County
12     50      3      6      1     23  Alabama  Choctaw County
13     50      3      6      1     25  Alabama  Clarke County
14     50      3      6      1     27  Alabama  Clay County
15     50      3      6      1     29  Alabama  Cleburne County
16     50      3      6      1     31  Alabama  Coffee County
17     50      3      6      1     33  Alabama  Colbert County
18     50      3      6      1     35  Alabama  Conecuh County
19     50      3      6      1     37  Alabama  Coosa County
20     50      3      6      1     39  Alabama  Covington County
21     50      3      6      1     41  Alabama  Crenshaw County
22     50      3      6      1     43  Alabama  Cullman County
23     50      3      6      1     45  Alabama  Dale County
24     50      3      6      1     47  Alabama  Dallas County
25     50      3      6      1     49  Alabama  DeKalb County
26     50      3      6      1     51  Alabama  Elmore County
27     50      3      6      1     53  Alabama  Escambia County
28     50      3      6      1     55  Alabama  Etowah County
```

29	50	3	6	1	57	Alabama	Fayette County
...	...	...	...	...	...	...	...
3163	50	2	3	55	131	Wisconsin	Washington County
3164	50	2	3	55	133	Wisconsin	Waukesha County
3165	50	2	3	55	135	Wisconsin	Waupaca County
3166	50	2	3	55	137	Wisconsin	Waushara County
3167	50	2	3	55	139	Wisconsin	Winnebago County
3168	50	2	3	55	141	Wisconsin	Wood County
3169	40	4	8	56	0	Wyoming	Wyoming
3170	50	4	8	56	1	Wyoming	Albany County
3171	50	4	8	56	3	Wyoming	Big Horn County
3172	50	4	8	56	5	Wyoming	Campbell County
3173	50	4	8	56	7	Wyoming	Carbon County
3174	50	4	8	56	9	Wyoming	Converse County
3175	50	4	8	56	11	Wyoming	Crook County
3176	50	4	8	56	13	Wyoming	Fremont County
3177	50	4	8	56	15	Wyoming	Goshen County
3178	50	4	8	56	17	Wyoming	Hot Springs County
3179	50	4	8	56	19	Wyoming	Johnson County
3180	50	4	8	56	21	Wyoming	Laramie County
3181	50	4	8	56	23	Wyoming	Lincoln County
3182	50	4	8	56	25	Wyoming	Natrona County
3183	50	4	8	56	27	Wyoming	Niobrara County
3184	50	4	8	56	29	Wyoming	Park County
3185	50	4	8	56	31	Wyoming	Platte County
3186	50	4	8	56	33	Wyoming	Sheridan County
3187	50	4	8	56	35	Wyoming	Sublette County
3188	50	4	8	56	37	Wyoming	Sweetwater County
3189	50	4	8	56	39	Wyoming	Teton County
3190	50	4	8	56	41	Wyoming	Uinta County
3191	50	4	8	56	43	Wyoming	Washakie County
3192	50	4	8	56	45	Wyoming	Weston County

	CENSUS2010POP	ESTIMATESBASE2010	POPESTIMATE2010	...	\
0	4779736	4780127	4785161	...	
1	54571	54571	54660	...	
2	182265	182265	183193	...	
3	27457	27457	27341	...	
4	22915	22919	22861	...	
5	57322	57322	57373	...	
6	10914	10915	10887	...	
7	20947	20946	20944	...	
8	118572	118586	118437	...	
9	34215	34170	34098	...	
10	25989	25986	25976	...	
11	43643	43631	43665	...	
12	13859	13858	13841	...	

13	25833	25840	25767	...
14	13932	13932	13880	...
15	14972	14972	14973	...
16	49948	49948	50177	...
17	54428	54428	54514	...
18	13228	13228	13208	...
19	11539	11758	11758	...
20	37765	37765	37796	...
21	13906	13906	13853	...
22	80406	80410	80473	...
23	50251	50251	50358	...
24	43820	43820	43803	...
25	71109	71115	71142	...
26	79303	79296	79465	...
27	38319	38319	38309	...
28	104430	104427	104442	...
29	17241	17241	17231	...
...	...	...	...	...
3163	131887	131885	131967	...
3164	389891	389938	390076	...
3165	52410	52410	52422	...
3166	24496	24496	24506	...
3167	166994	166994	167059	...
3168	74749	74749	74807	...
3169	563626	563767	564516	...
3170	36299	36299	36428	...
3171	11668	11668	11672	...
3172	46133	46133	46244	...
3173	15885	15885	15837	...
3174	13833	13833	13826	...
3175	7083	7083	7114	...
3176	40123	40123	40222	...
3177	13249	13247	13408	...
3178	4812	4812	4813	...
3179	8569	8569	8581	...
3180	91738	91881	92271	...
3181	18106	18106	18091	...
3182	75450	75450	75472	...
3183	2484	2484	2492	...
3184	28205	28205	28259	...
3185	8667	8667	8678	...
3186	29116	29116	29146	...
3187	10247	10247	10244	...
3188	43806	43806	43593	...
3189	21294	21294	21297	...
3190	21118	21118	21102	...
3191	8533	8533	8545	...



3192	7208	7208	7181	...	
	RDOMESTICMIG2013	RDOMESTICMIG2014	RDOMESTICMIG2015	RNETMIG2011	\
0	0.381066	0.582002	-0.467369	1.030015	
1	-3.012349	2.265971	-2.530799	7.606016	
2	21.845705	19.243287	17.197872	15.844176	
3	-7.056824	-3.904217	-10.543299	-4.874741	
4	-6.201001	-0.177537	0.177258	-5.088389	
5	-1.748766	-2.062535	-1.369970	1.859511	
6	-1.130263	14.354290	-16.167247	-29.001673	
7	-5.655413	1.085428	-6.529805	-13.936612	
8	-5.524649	-4.463211	-3.376322	-5.791579	
9	2.872721	-2.287222	1.349468	-1.821092	
10	5.488706	-0.076806	-3.239866	6.416167	
11	0.480044	0.456017	-2.253483	-0.823761	
12	-8.766391	-1.274984	-5.291205	-15.528177	
13	-0.318345	-8.686428	-5.613667	-6.077488	
14	4.902871	5.702648	3.912450	-10.816697	
15	7.345821	3.654485	-3.123961	-3.673524	
16	-13.146535	-3.602859	2.214774	2.166460	
17	1.762390	1.835688	-0.110260	0.513964	
18	-6.107224	-14.645416	2.684140	-4.861559	
19	-4.313831	-22.958017	-5.387581	-34.017138	
20	0.740271	3.697932	-0.316945	6.881460	
21	-1.864936	3.084648	3.439504	2.666763	
22	4.071247	5.087142	7.915406	-1.031427	
23	-15.236079	-11.979785	-5.107706	-9.575283	
24	-16.745678	-9.344789	-14.687232	-15.727573	
25	-1.748807	0.267830	0.028141	1.375159	
26	1.760531	-1.507057	2.067820	3.674511	
27	-4.822706	-1.189831	1.190902	-3.397716	
28	-1.931884	-1.726932	-2.082234	-0.632554	
29	-3.725937	0.296745	-2.797536	-5.132243	
...	...	...	...	...	
3163	-2.215465	1.601149	-0.434498	-0.431504	
3164	0.038132	0.760109	-0.719858	0.102448	
3165	6.292687	-0.441031	-0.480617	3.359933	
3166	-4.097017	-4.906711	-4.397793	5.174486	
3167	0.833819	-2.406192	-4.557985	0.842573	
3168	-6.901200	-5.596471	-3.958322	-3.733590	
3169	4.487115	-4.788275	-3.221091	0.289680	
3170	-3.544634	-3.334877	-9.911169	6.736119	
3171	16.815908	-8.026420	5.095861	4.868258	
3172	-5.895711	-8.550911	10.916963	-2.649606	
3173	3.178134	-2.970641	-23.300971	-7.392431	
3174	19.035533	-20.550587	-0.070403	-12.774915	
3175	1.397819	6.378258	18.629317	-0.982939	

3176	-4.990688	-12.331633	-13.673610	3.093562
3177	-8.079028	-7.017803	-11.899450	14.886132
3178	3.095336	-6.017222	-5.454164	5.191569
3179	-0.812583	-10.715742	0.933652	5.227392
3180	4.787847	-1.226133	0.278940	-0.973320
3181	13.564556	6.125989	1.555544	-9.691801
3182	24.322042	-0.958472	-0.061057	7.689674
3183	29.066295	-12.603387	7.492114	-0.401849
3184	7.641997	-9.252437	-2.878980	6.486639
3185	2.634593	6.055759	4.662270	4.373094
3186	4.546373	3.678069	-3.298406	2.122524
3187	-40.870074	-16.596273	-22.870900	-21.092907
3188	-5.339774	-14.252889	-14.248864	1.255221
3189	19.525929	14.143021	-0.564849	0.654527
3190	-6.902954	-14.215862	-12.127022	-18.136812
3191	-2.013502	-17.781491	1.682288	-11.990126
3192	12.372583	1.533635	6.935294	-12.032179

	RNETMIG2012	RNETMIG2013	RNETMIG2014	RNETMIG2015	min	max
0	0.826644	1.383282	1.724718	0.712594	4785161	4858979
1	-2.626146	-2.722002	2.592270	-2.187333	54660	55347
2	18.559627	22.727626	20.317142	18.293499	183193	203709
3	-2.758113	-7.167664	-3.978583	-10.543299	26489	27341
4	-4.363636	-5.403729	0.754533	1.107861	22512	22861
5	-0.848580	-1.402476	-1.577232	-0.884411	57373	57776
6	-2.825524	1.507017	17.243790	-13.193961	10606	10887
7	-11.586865	-5.557058	1.184103	-6.430868	20154	20944
8	-4.092677	-5.062836	-3.912834	-2.806406	115620	118437
9	4.701181	3.781439	-1.290228	2.346901	33993	34153
10	1.420264	5.757384	0.230419	-2.931307	25859	26084
11	-2.447504	0.868651	0.957636	-1.752709	43665	43943
12	-0.737028	-8.766391	-1.274984	-5.291205	13170	13841
13	-17.509958	-0.159172	-8.486280	-5.411736	24675	25767
14	-13.345130	4.977157	5.776708	3.986270	13456	13880
15	-5.151880	7.345821	3.654485	-3.123961	14921	15072
16	11.513368	-10.438741	-0.767822	5.350738	50177	51211
17	1.469035	2.276420	2.533249	0.588052	54354	54514
18	-7.504690	-6.107224	-14.645416	2.684140	12662	13208
19	-10.380162	-4.403703	-23.049483	-5.387581	10724	11758
20	-4.559952	0.793147	3.750759	-0.264121	37796	38060
21	5.099293	-0.502098	4.734577	5.087600	13853	13963
22	-0.634159	4.542916	5.593387	8.417777	80374	82005
23	-0.776637	-12.640155	-9.503292	-1.998668	49501	50358
24	-11.378047	-16.792849	-9.368689	-14.711389	41131	43803
25	-8.656001	-1.029539	1.198187	0.956790	70869	71387
26	1.558176	2.306047	-0.951175	2.757093	79465	81468
27	-3.803428	-4.769999	-1.136950	1.243830	37784	38309

28	2.446383	-1.518596	-1.234901	-1.588308	103057	104442
29	-0.705426	-3.785079	0.237396	-2.857058	16759	17231
...	...	...	...	...	...	...
3163	1.162817	-1.763330	2.104796	0.059931	131967	133674
3164	3.180527	1.189727	2.077633	0.593567	390076	396488
3165	-2.011937	6.561277	-0.134227	-0.173022	51945	52422
3166	-2.160399	-3.810226	-4.535615	-4.024395	24033	24581
3167	3.502335	1.531624	-1.545153	-3.685304	167059	169639
3168	-4.562809	-6.442917	-5.040889	-3.414223	73435	74807
3169	10.694870	5.440390	-3.727831	-2.091573	564516	586107
3170	6.433032	0.719587	1.429233	-5.166460	36428	37956
3171	3.144921	17.236306	-7.608378	5.513554	11672	12022
3172	15.558684	-5.916543	-8.509402	10.978525	46244	49220
3173	-12.636926	3.623073	-2.338590	-22.600668	15559	15856
3174	16.502720	20.093063	-19.358233	1.126443	13728	14343
3175	-3.642222	2.096729	7.071547	19.309219	7114	7444
3176	8.027411	-4.747240	-12.013555	-13.352750	40222	41129
3177	4.841727	-6.903896	-5.761986	-10.635133	13383	13666
3178	6.001656	2.888981	-6.224712	-5.663940	4741	4846
3179	-4.058912	-0.812583	-10.715742	0.933652	8552	8636
3180	17.914554	6.003143	-0.207819	1.673640	92271	97121
3181	-11.566801	13.619696	6.234414	1.662823	17943	18722
3182	23.749508	25.085233	-0.110593	0.793743	75472	82178
3183	0.806452	29.066295	-12.603387	7.492114	2475	2548
3184	11.127389	10.877797	-5.585731	0.856839	28259	29237
3185	4.933173	2.176403	5.598720	4.207414	8678	8812
3186	9.342778	5.523001	4.781489	-2.198937	29146	30020
3187	16.828794	-39.211861	-14.409938	-20.664059	9899	10418
3188	16.243199	-5.295460	-14.075283	-14.070195	43593	45162
3189	2.408578	21.160658	16.308671	1.520747	21297	23125
3190	-5.536861	-7.521840	-14.740608	-12.606351	20822	21102
3191	-1.182592	-2.250385	-18.020168	1.441961	8316	8545
3192	-8.040059	12.372583	1.533635	6.935294	7065	7234

[3193 rows x 102 columns]

```
[4]: data = ['POPESTIMATE2010',
            'POPESTIMATE2011',
            'POPESTIMATE2012',
            'POPESTIMATE2013',
            'POPESTIMATE2014',
            'POPESTIMATE2015']
df.apply(lambda x: np.min(x[data]), axis=1)
```

```
[4]: 0      4785161
      1       54660
      2      183193
      3       26489
```

4	22512
5	57373
6	10606
7	20154
8	115620
9	33993
10	25859
11	43665
12	13170
13	24675
14	13456
15	14921
16	50177
17	54354
18	12662
19	10724
20	37796
21	13853
22	80374
23	49501
24	41131
25	70869
26	79465
27	37784
28	103057
29	16759
	...
3163	131967
3164	390076
3165	51945
3166	24033
3167	167059
3168	73435
3169	564516
3170	36428
3171	11672
3172	46244
3173	15559
3174	13728
3175	7114
3176	40222
3177	13383
3178	4741
3179	8552
3180	92271
3181	17943
3182	75472

```

3183      2475
3184      28259
3185      8678
3186      29146
3187      9899
3188      43593
3189      21297
3190      20822
3191      8316
3192      7065
dtype: int64

```

```

[5]: import numpy as np
import pandas as pd
df = pd.read_csv('census.csv')
for group, frame in df.groupby('STNAME'):
    avg = np.average(frame['CENSUS2010POP'])
    print('Counties in ', group, 'have an average population of', avg)

```

```

Counties in Alabama have an average population of 140580.470588
Counties in Alaska have an average population of 47348.7333333
Counties in Arizona have an average population of 799002.125
Counties in Arkansas have an average population of 76734.6842105
Counties in California have an average population of 1262845.9661
Counties in Colorado have an average population of 154744.492308
Counties in Connecticut have an average population of 794243.777778
Counties in Delaware have an average population of 448967.0
Counties in District of Columbia have an average population of 601723.0
Counties in Florida have an average population of 552979.705882
Counties in Georgia have an average population of 121095.6625
Counties in Hawaii have an average population of 453433.666667
Counties in Idaho have an average population of 69670.3111111
Counties in Illinois have an average population of 249138.485437
Counties in Indiana have an average population of 139436.602151
Counties in Iowa have an average population of 60927.1
Counties in Kansas have an average population of 53832.4150943
Counties in Kentucky have an average population of 71725.0743802
Counties in Louisiana have an average population of 139488.369231
Counties in Maine have an average population of 156277.764706
Counties in Maryland have an average population of 461884.16
Counties in Massachusetts have an average population of 873017.2
Counties in Michigan have an average population of 235324.761905
Counties in Minnesota have an average population of 120543.75
Counties in Mississippi have an average population of 71501.1325301
Counties in Missouri have an average population of 103257.362069
Counties in Montana have an average population of 34716.3157895
Counties in Nebraska have an average population of 38858.3191489
Counties in Nevada have an average population of 300061.222222

```

Counties in New Hampshire have an average population of 239358.181818  
 Counties in New Jersey have an average population of 799263.090909  
 Counties in New Mexico have an average population of 121128.176471  
 Counties in New York have an average population of 615177.84127  
 Counties in North Carolina have an average population of 188821.445545  
 Counties in North Dakota have an average population of 24910.7777778  
 Counties in Ohio have an average population of 259247.280899  
 Counties in Oklahoma have an average population of 96188.4871795  
 Counties in Oregon have an average population of 207085.081081  
 Counties in Pennsylvania have an average population of 373599.382353  
 Counties in Rhode Island have an average population of 350855.666667  
 Counties in South Carolina have an average population of 196824.0  
 Counties in South Dakota have an average population of 24303.880597  
 Counties in Tennessee have an average population of 132210.520833  
 Counties in Texas have an average population of 197220.086275  
 Counties in Utah have an average population of 184259.0  
 Counties in Vermont have an average population of 83432.1333333  
 Counties in Virginia have an average population of 119371.835821  
 Counties in Washington have an average population of 336227.0  
 Counties in West Virginia have an average population of 66178.3571429  
 Counties in Wisconsin have an average population of 155807.835616  
 Counties in Wyoming have an average population of 46968.8333333

```
[6]: import pandas as pd
import numpy as np

df = pd.read_csv('census.csv')
df.head()
```

```
[6]:  SUMLEV  REGION  DIVISION  STATE  COUNTY  STNAME  CTYNAME  \
0      40        3          6      1        0  Alabama  Alabama
1      50        3          6      1        1  Alabama  Autauga County
2      50        3          6      1        3  Alabama  Baldwin County
3      50        3          6      1        5  Alabama  Barbour County
4      50        3          6      1        7  Alabama  Bibb County

      CENSUS2010POP  ESTIMATESBASE2010  POPESTIMATE2010  ...  \
0      4779736      4780127      4785161      ...
1      54571      54571      54660      ...
2      182265      182265      183193      ...
3      27457      27457      27341      ...
4      22915      22919      22861      ...

      RDOMESTICMIG2011  RDOMESTICMIG2012  RDOMESTICMIG2013  RDOMESTICMIG2014  \
0      0.002295      -0.193196      0.381066      0.582002
1      7.242091      -2.915927      -3.012349      2.265971
2      14.832960      17.647293      21.845705      19.243287
3      -4.728132      -2.500690      -7.056824      -3.904217
```

4	-5.527043	-5.068871	-6.201001	-0.177537
---	-----------	-----------	-----------	-----------

	RDOMESTICMIG2015	RNETMIG2011	RNETMIG2012	RNETMIG2013	RNETMIG2014 \
0	-0.467369	1.030015	0.826644	1.383282	1.724718
1	-2.530799	7.606016	-2.626146	-2.722002	2.592270
2	17.197872	15.844176	18.559627	22.727626	20.317142
3	-10.543299	-4.874741	-2.758113	-7.167664	-3.978583
4	0.177258	-5.088389	-4.363636	-5.403729	0.754533

	RNETMIG2015
0	0.712594
1	-2.187333
2	18.293499
3	-10.543299
4	1.107861

[5 rows x 100 columns]

```
[7]: df.groupby('STNAME').agg({'CENSUS2010POP': np.average})
```

```
[7]:
```

	CENSUS2010POP
STNAME	
Alabama	1.405805e+05
Alaska	4.734873e+04
Arizona	7.990021e+05
Arkansas	7.673468e+04
California	1.262846e+06
Colorado	1.547445e+05
Connecticut	7.942438e+05
Delaware	4.489670e+05
District of Columbia	6.017230e+05
Florida	5.529797e+05
Georgia	1.210957e+05
Hawaii	4.534337e+05
Idaho	6.967031e+04
Illinois	2.491385e+05
Indiana	1.394366e+05
Iowa	6.092710e+04
Kansas	5.383242e+04
Kentucky	7.172507e+04
Louisiana	1.394884e+05
Maine	1.562778e+05
Maryland	4.618842e+05
Massachusetts	8.730172e+05
Michigan	2.353248e+05
Minnesota	1.205438e+05
Mississippi	7.150113e+04
Missouri	1.032574e+05

Montana	3.471632e+04
Nebraska	3.885832e+04
Nevada	3.000612e+05
New Hampshire	2.393582e+05
New Jersey	7.992631e+05
New Mexico	1.211282e+05
New York	6.151778e+05
North Carolina	1.888214e+05
North Dakota	2.491078e+04
Ohio	2.592473e+05
Oklahoma	9.618849e+04
Oregon	2.070851e+05
Pennsylvania	3.735994e+05
Rhode Island	3.508557e+05
South Carolina	1.968240e+05
South Dakota	2.430388e+04
Tennessee	1.322105e+05
Texas	1.972201e+05
Utah	1.842590e+05
Vermont	8.343213e+04
Virginia	1.193718e+05
Washington	3.362270e+05
West Virginia	6.617836e+04
Wisconsin	1.558078e+05
Wyoming	4.696883e+04

```
[8]: (df.set_index('STNAME').groupby(level=0)['CENSUS2010POP']
      .agg({'avg': np.average, 'sum': np.sum}))
```

	avg	sum
STNAME		
Alabama	1.405805e+05	9559472
Alaska	4.734873e+04	1420462
Arizona	7.990021e+05	12784034
Arkansas	7.673468e+04	5831836
California	1.262846e+06	74507912
Colorado	1.547445e+05	10058392
Connecticut	7.942438e+05	7148194
Delaware	4.489670e+05	1795868
District of Columbia	6.017230e+05	1203446
Florida	5.529797e+05	37602620
Georgia	1.210957e+05	19375306
Hawaii	4.534337e+05	2720602
Idaho	6.967031e+04	3135164
Illinois	2.491385e+05	25661264
Indiana	1.394366e+05	12967604
Iowa	6.092710e+04	6092710
Kansas	5.383242e+04	5706236



Kentucky	7.172507e+04	8678734
Louisiana	1.394884e+05	9066744
Maine	1.562778e+05	2656722
Maryland	4.618842e+05	11547104
Massachusetts	8.730172e+05	13095258
Michigan	2.353248e+05	19767280
Minnesota	1.205438e+05	10607850
Mississippi	7.150113e+04	5934594
Missouri	1.032574e+05	11977854
Montana	3.471632e+04	1978830
Nebraska	3.885832e+04	3652682
Nevada	3.000612e+05	5401102
New Hampshire	2.393582e+05	2632940
New Jersey	7.992631e+05	17583788
New Mexico	1.211282e+05	4118358
New York	6.151778e+05	38756204
North Carolina	1.888214e+05	19070966
North Dakota	2.491078e+04	1345182
Ohio	2.592473e+05	23073008
Oklahoma	9.618849e+04	7502702
Oregon	2.070851e+05	7662148
Pennsylvania	3.735994e+05	25404758
Rhode Island	3.508557e+05	2105134
South Carolina	1.968240e+05	9250728
South Dakota	2.430388e+04	1628360
Tennessee	1.322105e+05	12692210
Texas	1.972201e+05	50291122
Utah	1.842590e+05	5527770
Vermont	8.343213e+04	1251482
Virginia	1.193718e+05	15995826
Washington	3.362270e+05	13449080
West Virginia	6.617836e+04	3705988
Wisconsin	1.558078e+05	11373972
Wyoming	4.696883e+04	1127252

```
[9]: (df.set_index('STNAME').groupby(level=0)['POPESTIMATE2010', 'POPESTIMATE2011']
      .agg({'sum': np.sum, 'avg': np.average}))
```

```
[9]:
```

	sum		avg \
STNAME	POPESTIMATE2010	POPESTIMATE2011	POPESTIMATE2010
Alabama	9570322	9602216	1.407400e+05
Alaska	1428042	1445440	4.760140e+04
Arizona	12816416	12937464	8.010260e+05
Arkansas	5844788	5877076	7.690511e+04
California	74668158	75400068	1.265562e+06
Colorado	10096508	10238960	1.553309e+05
Connecticut	7159434	7179518	7.954927e+05

Delaware	1799582	1815832	4.498955e+05
District of Columbia	1210252	1240944	6.051260e+05
Florida	37699780	38211066	5.544085e+05
Georgia	19426908	19624560	1.214182e+05
Hawaii	2727960	2756454	4.546600e+05
Idaho	3141972	3168268	6.982160e+04
Illinois	25682498	25723764	2.493446e+05
Indiana	12981180	13033690	1.395826e+05
Iowa	6101388	6130778	6.101388e+04
Kansas	5717648	5739834	5.394008e+04
Kentucky	8695874	8735764	7.186673e+04
Louisiana	9089902	9150762	1.398446e+05
Maine	2655390	2656514	1.561994e+05
Maryland	11576818	11688342	4.630727e+05
Massachusetts	13130072	13223594	8.753381e+05
Michigan	19754738	19753178	2.351755e+05
Minnesota	10621806	10696238	1.207023e+05
Mississippi	5940632	5955998	7.157388e+04
Missouri	11992104	12021174	1.033802e+05
Montana	1981286	1995492	3.475940e+04
Nebraska	3660050	3684766	3.893670e+04
Nevada	5406880	5437638	3.003822e+05
New Hampshire	2633416	2636688	2.394015e+05
New Jersey	17607762	17685868	8.003528e+05
New Mexico	4129482	4156452	1.214554e+05
New York	38805840	39046404	6.159657e+05
North Carolina	19117958	19302050	1.892867e+05
North Dakota	1349060	1370652	2.498259e+04
Ohio	23081532	23090884	2.593431e+05
Oklahoma	7519192	7573252	9.639990e+04
Oregon	7675944	7737018	2.074579e+05
Pennsylvania	25424028	25490404	3.738828e+05
Rhode Island	2106438	2103712	3.510730e+05
South Carolina	9271788	9345466	1.972721e+05
South Dakota	1632598	1648578	2.436713e+04
Tennessee	12713170	12796816	1.324289e+05
Texas	50488726	51308928	1.979950e+05
Utah	5550852	5632880	1.850284e+05
Vermont	1251968	1253374	8.346453e+04
Virginia	16051574	16221566	1.197879e+05
Washington	13486120	13646458	3.371530e+05
West Virginia	3708450	3709896	6.622232e+04
Wisconsin	11380408	11419440	1.558960e+05
Wyoming	1129032	1135536	4.704300e+04

POPESTIMATE2011

STNAME	
Alabama	1.412091e+05
Alaska	4.818133e+04
Arizona	8.085915e+05
Arkansas	7.732995e+04
California	1.277967e+06
Colorado	1.575225e+05
Connecticut	7.977242e+05
Delaware	4.539580e+05
District of Columbia	6.204720e+05
Florida	5.619274e+05
Georgia	1.226535e+05
Hawaii	4.594090e+05
Idaho	7.040596e+04
Illinois	2.497453e+05
Indiana	1.401472e+05
Iowa	6.130778e+04
Kansas	5.414938e+04
Kentucky	7.219640e+04
Louisiana	1.407810e+05
Maine	1.562655e+05
Maryland	4.675337e+05
Massachusetts	8.815729e+05
Michigan	2.351569e+05
Minnesota	1.215482e+05
Mississippi	7.175901e+04
Missouri	1.036308e+05
Montana	3.500863e+04
Nebraska	3.919964e+04
Nevada	3.020910e+05
New Hampshire	2.396989e+05
New Jersey	8.039031e+05
New Mexico	1.222486e+05
New York	6.197842e+05
North Carolina	1.911094e+05
North Dakota	2.538244e+04
Ohio	2.594481e+05
Oklahoma	9.709297e+04
Oregon	2.091086e+05
Pennsylvania	3.748589e+05
Rhode Island	3.506187e+05
South Carolina	1.988397e+05
South Dakota	2.460564e+04
Tennessee	1.333002e+05
Texas	2.012115e+05
Utah	1.877627e+05
Vermont	8.355827e+04

Virginia	1.210565e+05
Washington	3.411615e+05
West Virginia	6.624814e+04
Wisconsin	1.564307e+05
Wyoming	4.731400e+04

```
[10]: df = pd.DataFrame(['A+', 'A', 'A-', 'B+', 'B', 'B-', 'C+', 'C', 'C-', 'D+', 'D'],
                        index=['excellent', 'excellent', 'excellent', 'good', 'good', 'good', 'ok', 'ok', 'ok', 'poor', 'poor'])
df.rename(columns={0: 'Grades'}, inplace=True)
df['Grades'].astype('category')
```

```
[10]: excellent    A+
excellent        A
excellent        A-
good             B+
good             B
good             B-
ok               C+
ok               C
ok               C-
poor             D+
poor             D
Name: Grades, dtype: category
Categories (11, object): [A, A+, A-, B, ..., C+, C-, D, D+]
```

```
[11]: grades = df['Grades'].astype('category',
                                categories = ['D', 'D+', 'C-', 'C', 'C+', 'B-', 'B', 'B+', 'A-', 'A', 'A+'], ordered=True)
grades <= 'B-'
```

```
[11]: excellent    False
excellent    False
excellent    False
good          False
good          False
good          True
ok            True
ok            True
ok            True
poor          True
poor          True
Name: Grades, dtype: bool
```

```
[12]: import pandas as pd
import numpy as np

df = pd.read_csv('census.csv')
```

```
df=df[df['SUMLEV'] == 50]
df = df.set_index('STNAME').groupby(level=0)['CENSUS2010POP'].agg({'avg': np.
    →average})
pd.cut(df['avg'],3,labels=['small', 'medium', 'very large'])
```

```
[12]: STNAME
Alabama                small
Alaska                small
Arizona                medium
Arkansas              small
California            very large
Colorado              small
Connecticut          very large
Delaware              medium
District of Columbia  very large
Florida              medium
Georgia              small
Hawaii               medium
Idaho                small
Illinois             small
Indiana              small
Iowa                 small
Kansas               small
Kentucky             small
Louisiana            small
Maine                small
Maryland             medium
Massachusetts        very large
Michigan             small
Minnesota            small
Mississippi          small
Missouri             small
Montana              small
Nebraska             small
Nevada               small
New Hampshire        small
New Jersey           medium
New Mexico           small
New York             medium
North Carolina       small
North Dakota         small
Ohio                 small
Oklahoma             small
Oregon               small
Pennsylvania         small
Rhode Island         small
South Carolina       small
```

```

South Dakota      small
Tennessee         small
Texas             small
Utah              small
Vermont           small
Virginia          small
Washington        small
West Virginia     small
Wisconsin         small
Wyoming           small
Name: avg, dtype: category
Categories (3, object): [small < medium < very large]

```

## 2 Idiomatic Pandas: Making Code Pandorable

```

[13]: import numpy as np
import pandas as pd

df = pd.read_csv('cars.csv')
df.pivot_table(values='(kW)', index='YEAR', columns='Make', aggfunc=[np.max,np.
    ↳min], margins=True)
#df.head()

```

```

[13]:      amax \
Make  BMW CHEVROLET  FORD  KIA MITSUBISHI  NISSAN  SMART  TESLA  All
YEAR
2012   NaN         NaN   NaN   NaN         49.0   80.0   NaN   NaN   80.0
2013   NaN         NaN  107.0   NaN         49.0   80.0  35.0  310.0  310.0
2014   NaN        104.0  107.0   NaN         49.0   80.0  35.0  310.0  310.0
2015  125.0        104.0  107.0  81.0         49.0   80.0  35.0  515.0  515.0
2016  125.0        104.0  107.0  81.0         49.0   80.0  35.0  568.0  568.0
All    125.0        104.0  107.0  81.0         49.0   80.0  35.0  568.0  568.0

      amin
Make  BMW CHEVROLET  FORD  KIA MITSUBISHI  NISSAN  SMART  TESLA  All
YEAR
2012   NaN         NaN   NaN   NaN         49.0   80.0   NaN   NaN  49.0
2013   NaN         NaN  107.0   NaN         49.0   80.0  35.0  270.0  35.0
2014   NaN        104.0  107.0   NaN         49.0   80.0  35.0  225.0  35.0
2015  125.0        104.0  107.0  81.0         49.0   80.0  35.0  280.0  35.0
2016  125.0        104.0  107.0  81.0         49.0   80.0  35.0  283.0  35.0
All    125.0        104.0  107.0  81.0         49.0   80.0  35.0  225.0  35.0

```

```

[14]: import pandas as pd
import numpy as np

```

```

[15]: pd.Timestamp('2014/11/18 10:20AM')

```

```
[15]: Timestamp('2014-11-18 10:20:00')
```

```
[16]: pd.Period('21/11/2019')
```

```
[16]: Period('2019-11-21', 'D')
```

```
[17]: t1 = pd.Series(list('def'), [pd.Timestamp('2013/10/12'), pd.Timestamp('2013/10/13'), pd.Timestamp('2013/10/13')])
t1
```

```
[17]: 2013-10-12    d
      2013-10-13    e
      2013-10-13    f
      dtype: object
```

```
[18]: t2 = pd.Series(list('ghj'), [pd.Period('09/2013'), pd.Period('10/2013'), pd.Period('11/2013')])
t2
```

```
[18]: 2013-09    g
      2013-10    h
      2013-11    j
      Freq: M, dtype: object
```

```
[19]: d1 = ['2 June 2016', '20/03/2016', '31.01.2016', 'August 8 2016', '2016/03/14']
t3 = pd.DataFrame(np.random.randint(10,100,(5,3)), index=d1, columns=list('abc'))
t3
```

```
[19]:
```

	a	b	c
2 June 2016	72	34	14
20/03/2016	55	17	91
31.01.2016	93	68	15
August 8 2016	18	90	47
2016/03/14	43	83	63

```
[20]: # .index albatta quyilishi kerak! Qavs ichida ham t3.index kelishi kerak!
t3.index = pd.to_datetime(t3.index)
t3
```

```
[20]:
```

	a	b	c
2016-06-02	72	34	14
2016-03-20	55	17	91
2016-01-31	93	68	15
2016-08-08	18	90	47
2016-03-14	43	83	63

```
[21]: pd.to_datetime('12.22.12') # uzgartirib beradi
```

```
[21]: Timestamp('2012-12-22 00:00:00')
```

```
[22]: pd.Timestamp('10.05.2019') - pd.Timestamp('20.07.2019')
```

```
[22]: Timedelta('77 days 00:00:00')
```

```
[23]: pd.Timestamp('10.05.2019 8:30AM') + pd.Timedelta('12H', '30M')
```

```
[23]: Timestamp('2019-10-05 20:30:00')
```

```
[24]: dates = pd.date_range('04 April 1992', periods=30, freq='50W-FRI')
```

```
[25]: df = pd.DataFrame({'Count 1': 100+np.random.randint(-1,10,30),  
                        'Count 2': 110+np.random.randint(-2,15,30)}, index=dates)  
df
```

```
[25]:
```

	Count 1	Count 2
1992-04-10	101	122
1993-03-26	108	117
1994-03-11	102	110
1995-02-24	108	116
1996-02-09	102	124
1997-01-24	109	108
1998-01-09	108	122
1998-12-25	104	108
1999-12-10	106	117
2000-11-24	109	121
2001-11-09	99	114
2002-10-25	100	120
2003-10-10	104	120
2004-09-24	105	108
2005-09-09	108	123
2006-08-25	99	115
2007-08-10	104	108
2008-07-25	100	111
2009-07-10	107	118
2010-06-25	108	116
2011-06-10	107	120
2012-05-25	105	109
2013-05-10	102	122
2014-04-25	101	111
2015-04-10	100	119
2016-03-25	106	117
2017-03-10	106	109
2018-02-23	108	118
2019-02-08	108	112
2020-01-24	102	117

```
[26]: df.index.weekday_name
```

```
[26]: array(['Friday', 'Friday', 'Friday', 'Friday', 'Friday', 'Friday',  
        'Friday', 'Friday', 'Friday', 'Friday', 'Friday', 'Friday',  
        'Friday', 'Friday', 'Friday', 'Friday', 'Friday', 'Friday',  
        'Friday', 'Friday', 'Friday', 'Friday', 'Friday', 'Friday'],  
      dtype=object)
```



```
[27]: df.diff()
```

```
[27]:
```

	Count 1	Count 2
1992-04-10	NaN	NaN
1993-03-26	7.0	-5.0
1994-03-11	-6.0	-7.0
1995-02-24	6.0	6.0
1996-02-09	-6.0	8.0
1997-01-24	7.0	-16.0
1998-01-09	-1.0	14.0
1998-12-25	-4.0	-14.0
1999-12-10	2.0	9.0
2000-11-24	3.0	4.0
2001-11-09	-10.0	-7.0
2002-10-25	1.0	6.0
2003-10-10	4.0	0.0
2004-09-24	1.0	-12.0
2005-09-09	3.0	15.0
2006-08-25	-9.0	-8.0
2007-08-10	5.0	-7.0
2008-07-25	-4.0	3.0
2009-07-10	7.0	7.0
2010-06-25	1.0	-2.0
2011-06-10	-1.0	4.0
2012-05-25	-2.0	-11.0
2013-05-10	-3.0	13.0
2014-04-25	-1.0	-11.0
2015-04-10	-1.0	8.0
2016-03-25	6.0	-2.0
2017-03-10	0.0	-8.0
2018-02-23	2.0	9.0
2019-02-08	0.0	-6.0
2020-01-24	-6.0	5.0

```
[28]: df.resample('M').mean()
```

```
[28]:
```

	Count 1	Count 2
1992-04-30	101.0	122.0
1992-05-31	NaN	NaN
1992-06-30	NaN	NaN
1992-07-31	NaN	NaN
1992-08-31	NaN	NaN
1992-09-30	NaN	NaN
1992-10-31	NaN	NaN
1992-11-30	NaN	NaN
1992-12-31	NaN	NaN
1993-01-31	NaN	NaN
1993-02-28	NaN	NaN

1993-03-31	108.0	117.0
1993-04-30	NaN	NaN
1993-05-31	NaN	NaN
1993-06-30	NaN	NaN
1993-07-31	NaN	NaN
1993-08-31	NaN	NaN
1993-09-30	NaN	NaN
1993-10-31	NaN	NaN
1993-11-30	NaN	NaN
1993-12-31	NaN	NaN
1994-01-31	NaN	NaN
1994-02-28	NaN	NaN
1994-03-31	102.0	110.0
1994-04-30	NaN	NaN
1994-05-31	NaN	NaN
1994-06-30	NaN	NaN
1994-07-31	NaN	NaN
1994-08-31	NaN	NaN
1994-09-30	NaN	NaN
...	...	...
2017-08-31	NaN	NaN
2017-09-30	NaN	NaN
2017-10-31	NaN	NaN
2017-11-30	NaN	NaN
2017-12-31	NaN	NaN
2018-01-31	NaN	NaN
2018-02-28	108.0	118.0
2018-03-31	NaN	NaN
2018-04-30	NaN	NaN
2018-05-31	NaN	NaN
2018-06-30	NaN	NaN
2018-07-31	NaN	NaN
2018-08-31	NaN	NaN
2018-09-30	NaN	NaN
2018-10-31	NaN	NaN
2018-11-30	NaN	NaN
2018-12-31	NaN	NaN
2019-01-31	NaN	NaN
2019-02-28	108.0	112.0
2019-03-31	NaN	NaN
2019-04-30	NaN	NaN
2019-05-31	NaN	NaN
2019-06-30	NaN	NaN
2019-07-31	NaN	NaN
2019-08-31	NaN	NaN
2019-09-30	NaN	NaN
2019-10-31	NaN	NaN

2019-11-30	NaN	NaN
2019-12-31	NaN	NaN
2020-01-31	102.0	117.0

[334 rows x 2 columns]

```
[29]: df['1994']
```

```
[29]:
```

	Count 1	Count 2
1994-03-11	102	110

```
[30]: df.asfreq('3W', method='ffill')
```

```
[30]:
```

	Count 1	Count 2
1992-04-12	101	122
1992-05-03	101	122
1992-05-24	101	122
1992-06-14	101	122
1992-07-05	101	122
1992-07-26	101	122
1992-08-16	101	122
1992-09-06	101	122
1992-09-27	101	122
1992-10-18	101	122
1992-11-08	101	122
1992-11-29	101	122
1992-12-20	101	122
1993-01-10	101	122
1993-01-31	101	122
1993-02-21	101	122
1993-03-14	101	122
1993-04-04	108	117
1993-04-25	108	117
1993-05-16	108	117
1993-06-06	108	117
1993-06-27	108	117
1993-07-18	108	117
1993-08-08	108	117
1993-08-29	108	117
1993-09-19	108	117
1993-10-10	108	117
1993-10-31	108	117
1993-11-21	108	117
1993-12-12	108	117
...	...	...
2018-05-20	108	118
2018-06-10	108	118
2018-07-01	108	118
2018-07-22	108	118

2018-08-12	108	118
2018-09-02	108	118
2018-09-23	108	118
2018-10-14	108	118
2018-11-04	108	118
2018-11-25	108	118
2018-12-16	108	118
2019-01-06	108	118
2019-01-27	108	118
2019-02-17	108	112
2019-03-10	108	112
2019-03-31	108	112
2019-04-21	108	112
2019-05-12	108	112
2019-06-02	108	112
2019-06-23	108	112
2019-07-14	108	112
2019-08-04	108	112
2019-08-25	108	112
2019-09-15	108	112
2019-10-06	108	112
2019-10-27	108	112
2019-11-17	108	112
2019-12-08	108	112
2019-12-29	108	112
2020-01-19	108	112

[484 rows x 2 columns]

```
[32]: import numpy as np
def min_max(row):
    data = row[['POPESTIMATE2010',
                'POPESTIMATE2011',
                'POPESTIMATE2012',
                'POPESTIMATE2013',
                'POPESTIMATE2014',
                'POPESTIMATE2015']]
    return pd.Series({'min': np.min(data), 'max': np.max(data)})
```

```
[33]: df.apply(min_max, axis=1)
```

```
[33]:      max  min
1992-04-10  NaN  NaN
1993-03-26  NaN  NaN
1994-03-11  NaN  NaN
1995-02-24  NaN  NaN
1996-02-09  NaN  NaN
1997-01-24  NaN  NaN
```

1998-01-09	NaN	NaN
1998-12-25	NaN	NaN
1999-12-10	NaN	NaN
2000-11-24	NaN	NaN
2001-11-09	NaN	NaN
2002-10-25	NaN	NaN
2003-10-10	NaN	NaN
2004-09-24	NaN	NaN
2005-09-09	NaN	NaN
2006-08-25	NaN	NaN
2007-08-10	NaN	NaN
2008-07-25	NaN	NaN
2009-07-10	NaN	NaN
2010-06-25	NaN	NaN
2011-06-10	NaN	NaN
2012-05-25	NaN	NaN
2013-05-10	NaN	NaN
2014-04-25	NaN	NaN
2015-04-10	NaN	NaN
2016-03-25	NaN	NaN
2017-03-10	NaN	NaN
2018-02-23	NaN	NaN
2019-02-08	NaN	NaN
2020-01-24	NaN	NaN

```
[34]: import numpy as np
def min_max(row):
    data = row[['POPESTIMATE2010',
                 'POPESTIMATE2011',
                 'POPESTIMATE2012',
                 'POPESTIMATE2013',
                 'POPESTIMATE2014',
                 'POPESTIMATE2015']]
    row['max'] = np.max(data)
    row['min'] = np.min(data)
    return row
df.apply(min_max, axis=1)
```

```
[34]:
```

	Count 1	Count 2	max	min
1992-04-10	101.0	122.0	NaN	NaN
1993-03-26	108.0	117.0	NaN	NaN
1994-03-11	102.0	110.0	NaN	NaN
1995-02-24	108.0	116.0	NaN	NaN
1996-02-09	102.0	124.0	NaN	NaN
1997-01-24	109.0	108.0	NaN	NaN
1998-01-09	108.0	122.0	NaN	NaN
1998-12-25	104.0	108.0	NaN	NaN
1999-12-10	106.0	117.0	NaN	NaN

2000-11-24	109.0	121.0	NaN	NaN
2001-11-09	99.0	114.0	NaN	NaN
2002-10-25	100.0	120.0	NaN	NaN
2003-10-10	104.0	120.0	NaN	NaN
2004-09-24	105.0	108.0	NaN	NaN
2005-09-09	108.0	123.0	NaN	NaN
2006-08-25	99.0	115.0	NaN	NaN
2007-08-10	104.0	108.0	NaN	NaN
2008-07-25	100.0	111.0	NaN	NaN
2009-07-10	107.0	118.0	NaN	NaN
2010-06-25	108.0	116.0	NaN	NaN
2011-06-10	107.0	120.0	NaN	NaN
2012-05-25	105.0	109.0	NaN	NaN
2013-05-10	102.0	122.0	NaN	NaN
2014-04-25	101.0	111.0	NaN	NaN
2015-04-10	100.0	119.0	NaN	NaN
2016-03-25	106.0	117.0	NaN	NaN
2017-03-10	106.0	109.0	NaN	NaN
2018-02-23	108.0	118.0	NaN	NaN
2019-02-08	108.0	112.0	NaN	NaN
2020-01-24	102.0	117.0	NaN	NaN

```
[35]: rows = ['POPESTIMATE2010',
              'POPESTIMATE2011',
              'POPESTIMATE2012',
              'POPESTIMATE2013',
              'POPESTIMATE2014',
              'POPESTIMATE2015']
df.apply(lambda x: np.max(x[rows]), axis=1)
```

```
[35]: 1992-04-10    NaN
      1993-03-26    NaN
      1994-03-11    NaN
      1995-02-24    NaN
      1996-02-09    NaN
      1997-01-24    NaN
      1998-01-09    NaN
      1998-12-25    NaN
      1999-12-10    NaN
      2000-11-24    NaN
      2001-11-09    NaN
      2002-10-25    NaN
      2003-10-10    NaN
      2004-09-24    NaN
      2005-09-09    NaN
      2006-08-25    NaN
      2007-08-10    NaN
      2008-07-25    NaN
```

```

2009-07-10    NaN
2010-06-25    NaN
2011-06-10    NaN
2012-05-25    NaN
2013-05-10    NaN
2014-04-25    NaN
2015-04-10    NaN
2016-03-25    NaN
2017-03-10    NaN
2018-02-23    NaN
2019-02-08    NaN
2020-01-24    NaN
Freq: 50W-FRI, dtype: float64

```

### 3 Group by

```

[36]: import pandas as pd
import numpy as np
df = pd.read_csv('census.csv')
df = df[df['SUMLEV']==50]
df

```

```

[36]:   SUMLEV  REGION  DIVISION  STATE  COUNTY  STNAME  CTYNAME \
1      50      3      6      1      1  Alabama  Autauga County
2      50      3      6      1      3  Alabama  Baldwin County
3      50      3      6      1      5  Alabama  Barbour County
4      50      3      6      1      7  Alabama  Bibb County
5      50      3      6      1      9  Alabama  Blount County
6      50      3      6      1     11  Alabama  Bullock County
7      50      3      6      1     13  Alabama  Butler County
8      50      3      6      1     15  Alabama  Calhoun County
9      50      3      6      1     17  Alabama  Chambers County
10     50      3      6      1     19  Alabama  Cherokee County
11     50      3      6      1     21  Alabama  Chilton County
12     50      3      6      1     23  Alabama  Choctaw County
13     50      3      6      1     25  Alabama  Clarke County
14     50      3      6      1     27  Alabama  Clay County
15     50      3      6      1     29  Alabama  Cleburne County
16     50      3      6      1     31  Alabama  Coffee County
17     50      3      6      1     33  Alabama  Colbert County
18     50      3      6      1     35  Alabama  Conecuh County
19     50      3      6      1     37  Alabama  Coosa County
20     50      3      6      1     39  Alabama  Covington County
21     50      3      6      1     41  Alabama  Crenshaw County
22     50      3      6      1     43  Alabama  Cullman County
23     50      3      6      1     45  Alabama  Dale County

```

24	50	3	6	1	47	Alabama	Dallas County
25	50	3	6	1	49	Alabama	DeKalb County
26	50	3	6	1	51	Alabama	Elmore County
27	50	3	6	1	53	Alabama	Escambia County
28	50	3	6	1	55	Alabama	Etowah County
29	50	3	6	1	57	Alabama	Fayette County
30	50	3	6	1	59	Alabama	Franklin County
...	...	...	...	...	...	...	...
3162	50	2	3	55	129	Wisconsin	Washburn County
3163	50	2	3	55	131	Wisconsin	Washington County
3164	50	2	3	55	133	Wisconsin	Waukesha County
3165	50	2	3	55	135	Wisconsin	Waupaca County
3166	50	2	3	55	137	Wisconsin	Waushara County
3167	50	2	3	55	139	Wisconsin	Winnebago County
3168	50	2	3	55	141	Wisconsin	Wood County
3170	50	4	8	56	1	Wyoming	Albany County
3171	50	4	8	56	3	Wyoming	Big Horn County
3172	50	4	8	56	5	Wyoming	Campbell County
3173	50	4	8	56	7	Wyoming	Carbon County
3174	50	4	8	56	9	Wyoming	Converse County
3175	50	4	8	56	11	Wyoming	Crook County
3176	50	4	8	56	13	Wyoming	Fremont County
3177	50	4	8	56	15	Wyoming	Goshen County
3178	50	4	8	56	17	Wyoming	Hot Springs County
3179	50	4	8	56	19	Wyoming	Johnson County
3180	50	4	8	56	21	Wyoming	Laramie County
3181	50	4	8	56	23	Wyoming	Lincoln County
3182	50	4	8	56	25	Wyoming	Natrona County
3183	50	4	8	56	27	Wyoming	Niobrara County
3184	50	4	8	56	29	Wyoming	Park County
3185	50	4	8	56	31	Wyoming	Platte County
3186	50	4	8	56	33	Wyoming	Sheridan County
3187	50	4	8	56	35	Wyoming	Sublette County
3188	50	4	8	56	37	Wyoming	Sweetwater County
3189	50	4	8	56	39	Wyoming	Teton County
3190	50	4	8	56	41	Wyoming	Uinta County
3191	50	4	8	56	43	Wyoming	Washakie County
3192	50	4	8	56	45	Wyoming	Weston County

	CENSUS2010POP	ESTIMATESBASE2010	POPESTIMATE2010	...	\
1	54571	54571	54660	...	
2	182265	182265	183193	...	
3	27457	27457	27341	...	
4	22915	22919	22861	...	
5	57322	57322	57373	...	
6	10914	10915	10887	...	
7	20947	20946	20944	...	



8	118572	118586	118437	...
9	34215	34170	34098	...
10	25989	25986	25976	...
11	43643	43631	43665	...
12	13859	13858	13841	...
13	25833	25840	25767	...
14	13932	13932	13880	...
15	14972	14972	14973	...
16	49948	49948	50177	...
17	54428	54428	54514	...
18	13228	13228	13208	...
19	11539	11758	11758	...
20	37765	37765	37796	...
21	13906	13906	13853	...
22	80406	80410	80473	...
23	50251	50251	50358	...
24	43820	43820	43803	...
25	71109	71115	71142	...
26	79303	79296	79465	...
27	38319	38319	38309	...
28	104430	104427	104442	...
29	17241	17241	17231	...
30	31704	31709	31734	...
...	...	...	...	...
3162	15911	15911	15930	...
3163	131887	131885	131967	...
3164	389891	389938	390076	...
3165	52410	52410	52422	...
3166	24496	24496	24506	...
3167	166994	166994	167059	...
3168	74749	74749	74807	...
3170	36299	36299	36428	...
3171	11668	11668	11672	...
3172	46133	46133	46244	...
3173	15885	15885	15837	...
3174	13833	13833	13826	...
3175	7083	7083	7114	...
3176	40123	40123	40222	...
3177	13249	13247	13408	...
3178	4812	4812	4813	...
3179	8569	8569	8581	...
3180	91738	91881	92271	...
3181	18106	18106	18091	...
3182	75450	75450	75472	...
3183	2484	2484	2492	...
3184	28205	28205	28259	...
3185	8667	8667	8678	...

3186	29116	29116	29146	...
3187	10247	10247	10244	...
3188	43806	43806	43593	...
3189	21294	21294	21297	...
3190	21118	21118	21102	...
3191	8533	8533	8545	...
3192	7208	7208	7181	...

	RDOMESTICMIG2011	RDOMESTICMIG2012	RDOMESTICMIG2013	RDOMESTICMIG2014 \
1	7.242091	-2.915927	-3.012349	2.265971
2	14.832960	17.647293	21.845705	19.243287
3	-4.728132	-2.500690	-7.056824	-3.904217
4	-5.527043	-5.068871	-6.201001	-0.177537
5	1.807375	-1.177622	-1.748766	-2.062535
6	-30.953709	-5.180127	-1.130263	14.354290
7	-14.032727	-11.684234	-5.655413	1.085428
8	-6.155670	-4.611706	-5.524649	-4.463211
9	-2.731639	3.849092	2.872721	-2.287222
10	6.339327	1.113180	5.488706	-0.076806
11	-1.372935	-2.653369	0.480044	0.456017
12	-15.455274	-0.737028	-8.766391	-1.274984
13	-6.194363	-17.667705	-0.318345	-8.686428
14	-10.744102	-13.345130	4.902871	5.702648
15	-3.673524	-5.151880	7.345821	3.654485
16	0.377640	7.675579	-13.146535	-3.602859
17	-0.073423	1.065051	1.762390	1.835688
18	-4.861559	-7.504690	-6.107224	-14.645416
19	-33.930581	-10.291443	-4.313831	-22.958017
20	6.696899	-4.612668	0.740271	3.697932
21	1.729792	3.950156	-1.864936	3.084648
22	-1.404233	-1.019628	4.071247	5.087142
23	-10.749798	-5.277150	-15.236079	-11.979785
24	-15.635599	-11.308243	-16.745678	-9.344789
25	0.294677	-9.302391	-1.748807	0.267830
26	3.235576	0.822717	1.760531	-1.507057
27	-3.449988	-3.855889	-4.822706	-1.189831
28	-1.015919	2.062637	-1.931884	-1.726932
29	-5.015601	-0.646640	-3.725937	0.296745
30	-1.638750	-5.459394	-8.043702	-1.267849
...	...	...	...	...
3162	-6.873936	7.338289	-6.732724	3.510452
3163	-0.794876	0.785279	-2.215465	1.601149
3164	-0.765799	2.128860	0.038132	0.760109
3165	3.111756	-2.241873	6.292687	-0.441031
3166	4.930022	-2.404973	-4.097017	-4.906711
3167	0.316712	2.889873	0.833819	-2.406192
3168	-4.081523	-5.019090	-6.901200	-5.596471

3170	3.708956	2.637812	-3.544634	-3.334877
3171	4.868258	2.804930	16.815908	-8.026420
3172	-2.843479	15.601020	-5.895711	-8.550911
3173	-7.581980	-13.081441	3.178134	-2.970641
3174	-12.847499	15.493820	19.035533	-20.550587
3175	-1.544618	-4.202564	1.397819	6.378258
3176	2.747083	7.782673	-4.990688	-12.331633
3177	14.293649	3.961413	-8.079028	-7.017803
3178	3.322604	6.208609	3.095336	-6.017222
3179	4.995063	-4.058912	-0.812583	-10.715742
3180	-1.200428	15.547274	4.787847	-1.226133
3181	-9.802564	-11.566801	13.564556	6.125989
3182	7.189319	23.066162	24.322042	-0.958472
3183	-0.401849	0.806452	29.066295	-12.603387
3184	4.582951	8.057765	7.641997	-9.252437
3185	4.373094	5.392073	2.634593	6.055759
3186	0.958559	8.425487	4.546373	3.678069
3187	-23.741784	15.272374	-40.870074	-16.596273
3188	1.072643	16.243199	-5.339774	-14.252889
3189	-1.589565	0.972695	19.525929	14.143021
3190	-17.755986	-4.916350	-6.902954	-14.215862
3191	-11.637475	-0.827815	-2.013502	-17.781491
3192	-11.752361	-8.040059	12.372583	1.533635

	RDOMESTICMIG2015	RNETMIG2011	RNETMIG2012	RNETMIG2013	RNETMIG2014 \
1	-2.530799	7.606016	-2.626146	-2.722002	2.592270
2	17.197872	15.844176	18.559627	22.727626	20.317142
3	-10.543299	-4.874741	-2.758113	-7.167664	-3.978583
4	0.177258	-5.088389	-4.363636	-5.403729	0.754533
5	-1.369970	1.859511	-0.848580	-1.402476	-1.577232
6	-16.167247	-29.001673	-2.825524	1.507017	17.243790
7	-6.529805	-13.936612	-11.586865	-5.557058	1.184103
8	-3.376322	-5.791579	-4.092677	-5.062836	-3.912834
9	1.349468	-1.821092	4.701181	3.781439	-1.290228
10	-3.239866	6.416167	1.420264	5.757384	0.230419
11	-2.253483	-0.823761	-2.447504	0.868651	0.957636
12	-5.291205	-15.528177	-0.737028	-8.766391	-1.274984
13	-5.613667	-6.077488	-17.509958	-0.159172	-8.486280
14	3.912450	-10.816697	-13.345130	4.977157	5.776708
15	-3.123961	-3.673524	-5.151880	7.345821	3.654485
16	2.214774	2.166460	11.513368	-10.438741	-0.767822
17	-0.110260	0.513964	1.469035	2.276420	2.533249
18	2.684140	-4.861559	-7.504690	-6.107224	-14.645416
19	-5.387581	-34.017138	-10.380162	-4.403703	-23.049483
20	-0.316945	6.881460	-4.559952	0.793147	3.750759
21	3.439504	2.666763	5.099293	-0.502098	4.734577
22	7.915406	-1.031427	-0.634159	4.542916	5.593387

23	-5.107706	-9.575283	-0.776637	-12.640155	-9.503292
24	-14.687232	-15.727573	-11.378047	-16.792849	-9.368689
25	0.028141	1.375159	-8.656001	-1.029539	1.198187
26	2.067820	3.674511	1.558176	2.306047	-0.951175
27	1.190902	-3.397716	-3.803428	-4.769999	-1.136950
28	-2.082234	-0.632554	2.446383	-1.518596	-1.234901
29	-2.797536	-5.132243	-0.705426	-3.785079	0.237396
30	-2.401719	0.063029	-3.471291	-5.700261	1.553115
...	...	...	...	...	...
3162	-5.123279	-6.747809	7.464811	-6.605691	3.638104
3163	-0.434498	-0.431504	1.162817	-1.763330	2.104796
3164	-0.719858	0.102448	3.180527	1.189727	2.077633
3165	-0.480617	3.359933	-2.011937	6.561277	-0.134227
3166	-4.397793	5.174486	-2.160399	-3.810226	-4.535615
3167	-4.557985	0.842573	3.502335	1.531624	-1.545153
3168	-3.958322	-3.733590	-4.562809	-6.442917	-5.040889
3170	-9.911169	6.736119	6.433032	0.719587	1.429233
3171	5.095861	4.868258	3.144921	17.236306	-7.608378
3172	10.916963	-2.649606	15.558684	-5.916543	-8.509402
3173	-23.300971	-7.392431	-12.636926	3.623073	-2.338590
3174	-0.070403	-12.774915	16.502720	20.093063	-19.358233
3175	18.629317	-0.982939	-3.642222	2.096729	7.071547
3176	-13.673610	3.093562	8.027411	-4.747240	-12.013555
3177	-11.899450	14.886132	4.841727	-6.903896	-5.761986
3178	-5.454164	5.191569	6.001656	2.888981	-6.224712
3179	0.933652	5.227392	-4.058912	-0.812583	-10.715742
3180	0.278940	-0.973320	17.914554	6.003143	-0.207819
3181	1.555544	-9.691801	-11.566801	13.619696	6.234414
3182	-0.061057	7.689674	23.749508	25.085233	-0.110593
3183	7.492114	-0.401849	0.806452	29.066295	-12.603387
3184	-2.878980	6.486639	11.127389	10.877797	-5.585731
3185	4.662270	4.373094	4.933173	2.176403	5.598720
3186	-3.298406	2.122524	9.342778	5.523001	4.781489
3187	-22.870900	-21.092907	16.828794	-39.211861	-14.409938
3188	-14.248864	1.255221	16.243199	-5.295460	-14.075283
3189	-0.564849	0.654527	2.408578	21.160658	16.308671
3190	-12.127022	-18.136812	-5.536861	-7.521840	-14.740608
3191	1.682288	-11.990126	-1.182592	-2.250385	-18.020168
3192	6.935294	-12.032179	-8.040059	12.372583	1.533635

# RNETMIG2015

1	-2.187333
2	18.293499
3	-10.543299
4	1.107861
5	-0.884411
6	-13.193961

7	-6.430868
8	-2.806406
9	2.346901
10	-2.931307
11	-1.752709
12	-5.291205
13	-5.411736
14	3.986270
15	-3.123961
16	5.350738
17	0.588052
18	2.684140
19	-5.387581
20	-0.264121
21	5.087600
22	8.417777
23	-1.998668
24	-14.711389
25	0.956790
26	2.757093
27	1.243830
28	-1.588308
29	-2.857058
30	0.442422
...	...
3162	-4.995197
3163	0.059931
3164	0.593567
3165	-0.173022
3166	-4.024395
3167	-3.685304
3168	-3.414223
3170	-5.166460
3171	5.513554
3172	10.978525
3173	-22.600668
3174	1.126443
3175	19.309219
3176	-13.352750
3177	-10.635133
3178	-5.663940
3179	0.933652
3180	1.673640
3181	1.662823
3182	0.793743
3183	7.492114
3184	0.856839

```

3185      4.207414
3186     -2.198937
3187    -20.664059
3188    -14.070195
3189      1.520747
3190    -12.606351
3191      1.441961
3192      6.935294

```

[3142 rows x 100 columns]

```

[37]: %%timeit -n 10
      for state in df['STNAME'].unique():
          avg = np.average(df.where(df['STNAME']==state).dropna()['CENSUS2010POP'])
          print('Counties in state ' + state + ' have an average population of ' +
→str(avg))

```

```

Counties in state Alabama have an average population of 71339.3432836
Counties in state Alaska have an average population of 24490.7241379
Counties in state Arizona have an average population of 426134.466667
Counties in state Arkansas have an average population of 38878.9066667
Counties in state California have an average population of 642309.586207
Counties in state Colorado have an average population of 78581.1875
Counties in state Connecticut have an average population of 446762.125
Counties in state Delaware have an average population of 299311.333333
Counties in state District of Columbia have an average population of 601723.0
Counties in state Florida have an average population of 280616.567164
Counties in state Georgia have an average population of 60928.6352201
Counties in state Hawaii have an average population of 272060.2
Counties in state Idaho have an average population of 35626.8636364
Counties in state Illinois have an average population of 125790.509804
Counties in state Indiana have an average population of 70476.1086957
Counties in state Iowa have an average population of 30771.2626263
Counties in state Kansas have an average population of 27172.552381
Counties in state Kentucky have an average population of 36161.3916667
Counties in state Louisiana have an average population of 70833.9375
Counties in state Maine have an average population of 83022.5625
Counties in state Maryland have an average population of 240564.666667
Counties in state Massachusetts have an average population of 467687.785714
Counties in state Michigan have an average population of 119080.0
Counties in state Minnesota have an average population of 60964.6551724
Counties in state Mississippi have an average population of 36186.5487805
Counties in state Missouri have an average population of 52077.626087
Counties in state Montana have an average population of 17668.125
Counties in state Nebraska have an average population of 19638.0752688
Counties in state Nevada have an average population of 158855.941176
Counties in state New Hampshire have an average population of 131647.0
Counties in state New Jersey have an average population of 418661.619048

```

Counties in state New Mexico have an average population of 62399.3636364  
Counties in state New York have an average population of 312550.032258  
Counties in state North Carolina have an average population of 95354.83  
Counties in state North Dakota have an average population of 12690.3962264  
Counties in state Ohio have an average population of 131096.636364  
Counties in state Oklahoma have an average population of 48718.8441558  
Counties in state Oregon have an average population of 106418.722222  
Counties in state Pennsylvania have an average population of 189587.746269  
Counties in state Rhode Island have an average population of 210513.4  
Counties in state South Carolina have an average population of 100551.391304  
Counties in state South Dakota have an average population of 12336.0606061  
Counties in state Tennessee have an average population of 66801.1052632  
Counties in state Texas have an average population of 98998.2716535  
Counties in state Utah have an average population of 95306.3793103  
Counties in state Vermont have an average population of 44695.7857143  
Counties in state Virginia have an average population of 60111.2932331  
Counties in state Washington have an average population of 172424.102564  
Counties in state West Virginia have an average population of 33690.8  
Counties in state Wisconsin have an average population of 78985.9166667  
Counties in state Wyoming have an average population of 24505.4782609  
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Counties in state Michigan have an average population of 119080.0  
Counties in state Minnesota have an average population of 60964.6551724  
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Counties in state Montana have an average population of 17668.125  
Counties in state Nebraska have an average population of 19638.0752688  
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Counties in state New Hampshire have an average population of 131647.0  
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Counties in state New Mexico have an average population of 62399.3636364  
Counties in state New York have an average population of 312550.032258  
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 Counties in state Tennessee have an average population of 66801.1052632

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Counties in state Utah have an average population of 95306.3793103  
Counties in state Vermont have an average population of 44695.7857143  
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Counties in state New Mexico have an average population of 62399.3636364  
Counties in state New York have an average population of 312550.032258  
Counties in state North Carolina have an average population of 95354.83  
Counties in state North Dakota have an average population of 12690.3962264  
Counties in state Ohio have an average population of 131096.636364  
Counties in state Oklahoma have an average population of 48718.8441558  
Counties in state Oregon have an average population of 106418.722222  
Counties in state Pennsylvania have an average population of 189587.746269  
Counties in state Rhode Island have an average population of 210513.4

Counties in state South Carolina have an average population of 100551.391304  
Counties in state South Dakota have an average population of 12336.0606061  
Counties in state Tennessee have an average population of 66801.1052632  
Counties in state Texas have an average population of 98998.2716535  
Counties in state Utah have an average population of 95306.3793103  
Counties in state Vermont have an average population of 44695.7857143  
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Counties in state Vermont have an average population of 44695.7857143  
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Counties in state Florida have an average population of 280616.567164



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 3.11 s ± 1.04 s per loop (mean ± std. dev. of 7 runs, 10 loops each)

```
[38]: %%timeit -n 10
for group, frame in df.groupby('STNAME'):
    avg = np.average(frame['CENSUS2010POP'])
    print('Counties in state ' + group + ' have an average population of ' +
    →str(avg))
```

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Counties in state Montana have an average population of 17668.125  
Counties in state Nebraska have an average population of 19638.0752688  
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Counties in state New Hampshire have an average population of 131647.0  
Counties in state New Jersey have an average population of 418661.619048  
Counties in state New Mexico have an average population of 62399.3636364  
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Counties in state West Virginia have an average population of 33690.8

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Counties in state Texas have an average population of 98998.2716535  
Counties in state Utah have an average population of 95306.3793103  
Counties in state Vermont have an average population of 44695.7857143  
Counties in state Virginia have an average population of 60111.2932331  
Counties in state Washington have an average population of 172424.102564  
Counties in state West Virginia have an average population of 33690.8  
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Counties in state Iowa have an average population of 30771.2626263



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Counties in state New Mexico have an average population of 62399.3636364  
Counties in state New York have an average population of 312550.032258  
Counties in state North Carolina have an average population of 95354.83  
Counties in state North Dakota have an average population of 12690.3962264  
Counties in state Ohio have an average population of 131096.636364  
Counties in state Oklahoma have an average population of 48718.8441558  
Counties in state Oregon have an average population of 106418.722222  
Counties in state Pennsylvania have an average population of 189587.746269  
Counties in state Rhode Island have an average population of 210513.4

Counties in state South Carolina have an average population of 100551.391304  
Counties in state South Dakota have an average population of 12336.0606061  
Counties in state Tennessee have an average population of 66801.1052632  
Counties in state Texas have an average population of 98998.2716535  
Counties in state Utah have an average population of 95306.3793103  
Counties in state Vermont have an average population of 44695.7857143  
Counties in state Virginia have an average population of 60111.2932331  
Counties in state Washington have an average population of 172424.102564  
Counties in state West Virginia have an average population of 33690.8  
Counties in state Wisconsin have an average population of 78985.9166667  
Counties in state Wyoming have an average population of 24505.4782609  
Counties in state Alabama have an average population of 71339.3432836  
Counties in state Alaska have an average population of 24490.7241379  
Counties in state Arizona have an average population of 426134.466667  
Counties in state Arkansas have an average population of 38878.9066667  
Counties in state California have an average population of 642309.586207  
Counties in state Colorado have an average population of 78581.1875  
Counties in state Connecticut have an average population of 446762.125  
Counties in state Delaware have an average population of 299311.333333  
Counties in state District of Columbia have an average population of 601723.0  
Counties in state Florida have an average population of 280616.567164  
Counties in state Georgia have an average population of 60928.6352201  
Counties in state Hawaii have an average population of 272060.2  
Counties in state Idaho have an average population of 35626.8636364  
Counties in state Illinois have an average population of 125790.509804  
Counties in state Indiana have an average population of 70476.1086957  
Counties in state Iowa have an average population of 30771.2626263  
Counties in state Kansas have an average population of 27172.552381  
Counties in state Kentucky have an average population of 36161.3916667  
Counties in state Louisiana have an average population of 70833.9375  
Counties in state Maine have an average population of 83022.5625  
Counties in state Maryland have an average population of 240564.666667  
Counties in state Massachusetts have an average population of 467687.785714  
Counties in state Michigan have an average population of 119080.0  
Counties in state Minnesota have an average population of 60964.6551724  
Counties in state Mississippi have an average population of 36186.5487805  
Counties in state Missouri have an average population of 52077.626087  
Counties in state Montana have an average population of 17668.125  
Counties in state Nebraska have an average population of 19638.0752688  
Counties in state Nevada have an average population of 158855.941176  
Counties in state New Hampshire have an average population of 131647.0  
Counties in state New Jersey have an average population of 418661.619048  
Counties in state New Mexico have an average population of 62399.3636364  
Counties in state New York have an average population of 312550.032258  
Counties in state North Carolina have an average population of 95354.83  
Counties in state North Dakota have an average population of 12690.3962264  
Counties in state Ohio have an average population of 131096.636364  
Counties in state Oklahoma have an average population of 48718.8441558

Counties in state Oregon have an average population of 106418.722222  
Counties in state Pennsylvania have an average population of 189587.746269  
Counties in state Rhode Island have an average population of 210513.4  
Counties in state South Carolina have an average population of 100551.391304  
Counties in state South Dakota have an average population of 12336.0606061  
Counties in state Tennessee have an average population of 66801.1052632  
Counties in state Texas have an average population of 98998.2716535  
Counties in state Utah have an average population of 95306.3793103  
Counties in state Vermont have an average population of 44695.7857143  
Counties in state Virginia have an average population of 60111.2932331  
Counties in state Washington have an average population of 172424.102564  
Counties in state West Virginia have an average population of 33690.8  
Counties in state Wisconsin have an average population of 78985.9166667  
Counties in state Wyoming have an average population of 24505.4782609  
132 ms ± 7.99 ms per loop (mean ± std. dev. of 7 runs, 10 loops each)

[39]: df.head()

```
[39]:
```

	SUMLEV	REGION	DIVISION	STATE	COUNTY	STNAME	CTYNAME	\
1	50	3	6	1	1	Alabama	Autauga County	
2	50	3	6	1	3	Alabama	Baldwin County	
3	50	3	6	1	5	Alabama	Barbour County	
4	50	3	6	1	7	Alabama	Bibb County	
5	50	3	6	1	9	Alabama	Blount County	

  

	CENSUS2010POP	ESTIMATESBASE2010	POPESTIMATE2010	...	\
1	54571	54571	54660	...	
2	182265	182265	183193	...	
3	27457	27457	27341	...	
4	22915	22919	22861	...	
5	57322	57322	57373	...	

  

	RDOMESTICMIG2011	RDOMESTICMIG2012	RDOMESTICMIG2013	RDOMESTICMIG2014	\
1	7.242091	-2.915927	-3.012349	2.265971	
2	14.832960	17.647293	21.845705	19.243287	
3	-4.728132	-2.500690	-7.056824	-3.904217	
4	-5.527043	-5.068871	-6.201001	-0.177537	
5	1.807375	-1.177622	-1.748766	-2.062535	

  

	RDOMESTICMIG2015	RNETMIG2011	RNETMIG2012	RNETMIG2013	RNETMIG2014	\
1	-2.530799	7.606016	-2.626146	-2.722002	2.592270	
2	17.197872	15.844176	18.559627	22.727626	20.317142	
3	-10.543299	-4.874741	-2.758113	-7.167664	-3.978583	
4	0.177258	-5.088389	-4.363636	-5.403729	0.754533	
5	-1.369970	1.859511	-0.848580	-1.402476	-1.577232	

  

	RNETMIG2015
1	-2.187333

```

2    18.293499
3   -10.543299
4     1.107861
5    -0.884411

```

[5 rows x 100 columns]

```

[40]: df = df.set_index('STNAME')

def fun(item):
    if item[0]<'M':
        return 0
    if item[0]<'Q':
        return 1
    return 2

for group, frame in df.groupby(fun):
    print('There are ' + str(len(frame)) + ' records in group ' + str(group) +
    → ' for processing.')

```

There are 1177 records in group 0 for processing.

There are 1134 records in group 1 for processing.

There are 831 records in group 2 for processing.

```

[41]: df = pd.read_csv('census.csv')
df = df[df['SUMLEV']==50]

```

```

[42]: df.groupby('STNAME').agg({'CENSUS2010POP': np.average})

```

```

[42]:
          CENSUS2010POP
STNAME
Alabama      71339.343284
Alaska       24490.724138
Arizona      426134.466667
Arkansas     38878.906667
California   642309.586207
Colorado     78581.187500
Connecticut  446762.125000
Delaware     299311.333333
District of Columbia  601723.000000
Florida     280616.567164
Georgia      60928.635220
Hawaii       272060.200000
Idaho        35626.863636
Illinois     125790.509804
Indiana      70476.108696
Iowa         30771.262626
Kansas       27172.552381
Kentucky     36161.391667

```

Louisiana	70833.937500
Maine	83022.562500
Maryland	240564.666667
Massachusetts	467687.785714
Michigan	119080.000000
Minnesota	60964.655172
Mississippi	36186.548780
Missouri	52077.626087
Montana	17668.125000
Nebraska	19638.075269
Nevada	158855.941176
New Hampshire	131647.000000
New Jersey	418661.619048
New Mexico	62399.363636
New York	312550.032258
North Carolina	95354.830000
North Dakota	12690.396226
Ohio	131096.636364
Oklahoma	48718.844156
Oregon	106418.722222
Pennsylvania	189587.746269
Rhode Island	210513.400000
South Carolina	100551.391304
South Dakota	12336.060606
Tennessee	66801.105263
Texas	98998.271654
Utah	95306.379310
Vermont	44695.785714
Virginia	60111.293233
Washington	172424.102564
West Virginia	33690.800000
Wisconsin	78985.916667
Wyoming	24505.478261

```
[43]: print(type(df.groupby(level=0)['POPESTIMATE2010','POPESTIMATE2011']))
      print(type(df.groupby(level=0)['POPESTIMATE2010']))
```

```
<class 'pandas.core.groupby.DataFrameGroupBy'>
<class 'pandas.core.groupby.SeriesGroupBy'>
```

```
[44]: (df.set_index('STNAME').groupby(level=0)['CENSUS2010POP']
      .agg({'avg': np.average, 'sum': np.sum}))
```

```
[44]:
```

	avg	sum
STNAME		
Alabama	71339.343284	4779736
Alaska	24490.724138	710231
Arizona	426134.466667	6392017

Arkansas	38878.906667	2915918
California	642309.586207	37253956
Colorado	78581.187500	5029196
Connecticut	446762.125000	3574097
Delaware	299311.333333	897934
District of Columbia	601723.000000	601723
Florida	280616.567164	18801310
Georgia	60928.635220	9687653
Hawaii	272060.200000	1360301
Idaho	35626.863636	1567582
Illinois	125790.509804	12830632
Indiana	70476.108696	6483802
Iowa	30771.262626	3046355
Kansas	27172.552381	2853118
Kentucky	36161.391667	4339367
Louisiana	70833.937500	4533372
Maine	83022.562500	1328361
Maryland	240564.666667	5773552
Massachusetts	467687.785714	6547629
Michigan	119080.000000	9883640
Minnesota	60964.655172	5303925
Mississippi	36186.548780	2967297
Missouri	52077.626087	5988927
Montana	17668.125000	989415
Nebraska	19638.075269	1826341
Nevada	158855.941176	2700551
New Hampshire	131647.000000	1316470
New Jersey	418661.619048	8791894
New Mexico	62399.363636	2059179
New York	312550.032258	19378102
North Carolina	95354.830000	9535483
North Dakota	12690.396226	672591
Ohio	131096.636364	11536504
Oklahoma	48718.844156	3751351
Oregon	106418.722222	3831074
Pennsylvania	189587.746269	12702379
Rhode Island	210513.400000	1052567
South Carolina	100551.391304	4625364
South Dakota	12336.060606	814180
Tennessee	66801.105263	6346105
Texas	98998.271654	25145561
Utah	95306.379310	2763885
Vermont	44695.785714	625741
Virginia	60111.293233	7994802
Washington	172424.102564	6724540
West Virginia	33690.800000	1852994
Wisconsin	78985.916667	5686986

Wyoming 24505.478261 563626

```
[45]: (df.set_index('STNAME').groupby(level=0)['POPESTIMATE2010', 'POPESTIMATE2011']
      .agg({'avg': np.average, 'sum': np.sum}))
```

```
[45]:
```

	avg		sum \
STNAME	POPESTIMATE2010	POPESTIMATE2011	POPESTIMATE2010
Alabama	71420.313433	71658.328358	4785161
Alaska	24621.413793	24921.379310	714021
Arizona	427213.866667	431248.800000	6408208
Arkansas	38965.253333	39180.506667	2922394
California	643691.017241	650000.586207	37334079
Colorado	78878.968750	79991.875000	5048254
Connecticut	447464.625000	448719.875000	3579717
Delaware	299930.333333	302638.666667	899791
District of Columbia	605126.000000	620472.000000	605126
Florida	281341.641791	285157.208955	18849890
Georgia	61090.905660	61712.452830	9713454
Hawaii	272796.000000	275645.400000	1363980
Idaho	35704.227273	36003.045455	1570986
Illinois	125894.598039	126096.882353	12841249
Indiana	70549.891304	70835.271739	6490590
Iowa	30815.090909	30963.525253	3050694
Kansas	27226.895238	27332.542857	2858824
Kentucky	36232.808333	36399.016667	4347937
Louisiana	71014.859375	71490.328125	4544951
Maine	82980.937500	83016.062500	1327695
Maryland	241183.708333	243507.125000	5788409
Massachusetts	468931.142857	472271.214286	6565036
Michigan	119004.445783	118995.048193	9877369
Minnesota	61044.862069	61472.632184	5310903
Mississippi	36223.365854	36317.060976	2970316
Missouri	52139.582609	52265.973913	5996052
Montana	17690.053571	17816.892857	990643
Nebraska	19677.688172	19810.569892	1830025
Nevada	159025.882353	159930.529412	2703440
New Hampshire	131670.800000	131834.400000	1316708
New Jersey	419232.428571	421092.095238	8803881
New Mexico	62567.909091	62976.545455	2064741
New York	312950.322581	314890.354839	19402920
North Carolina	95589.790000	96510.250000	9558979
North Dakota	12726.981132	12930.679245	674530
Ohio	131145.068182	131198.204545	11540766
Oklahoma	48825.922078	49176.961039	3759596
Oregon	106610.333333	107458.583333	3837972
Pennsylvania	189731.552239	190226.895522	12712014
Rhode Island	210643.800000	210371.200000	1053219

South Carolina	100780.304348	101581.152174	4635894
South Dakota	12368.166667	12489.227273	816299
Tennessee	66911.421053	67351.663158	6356585
Texas	99387.255906	101001.826772	25244363
Utah	95704.344828	97118.620690	2775426
Vermont	44713.142857	44763.357143	625984
Virginia	60344.263158	60983.330827	8025787
Washington	172898.974359	174954.589744	6743060
West Virginia	33713.181818	33726.327273	1854225
Wisconsin	79030.611111	79301.666667	5690204
Wyoming	24544.173913	24685.565217	564516

# POPESTIMATE2011

STNAME	
Alabama	4801108
Alaska	722720
Arizona	6468732
Arkansas	2938538
California	37700034
Colorado	5119480
Connecticut	3589759
Delaware	907916
District of Columbia	620472
Florida	19105533
Georgia	9812280
Hawaii	1378227
Idaho	1584134
Illinois	12861882
Indiana	6516845
Iowa	3065389
Kansas	2869917
Kentucky	4367882
Louisiana	4575381
Maine	1328257
Maryland	5844171
Massachusetts	6611797
Michigan	9876589
Minnesota	5348119
Mississippi	2977999
Missouri	6010587
Montana	997746
Nebraska	1842383
Nevada	2718819
New Hampshire	1318344
New Jersey	8842934
New Mexico	2078226



New York	19523202
North Carolina	9651025
North Dakota	685326
Ohio	11545442
Oklahoma	3786626
Oregon	3868509
Pennsylvania	12745202
Rhode Island	1051856
South Carolina	4672733
South Dakota	824289
Tennessee	6398408
Texas	25654464
Utah	2816440
Vermont	626687
Virginia	8110783
Washington	6823229
West Virginia	1854948
Wisconsin	5709720
Wyoming	567768

```
[46]: (df.set_index('STNAME').groupby(level=0)['POPESTIMATE2010', 'POPESTIMATE2011']
      .agg({'POPESTIMATE2010': np.average, 'POPESTIMATE2011': np.sum}))
```

```
[46]:
```

	POPESTIMATE2010	POPESTIMATE2011
STNAME		
Alabama	71420.313433	4801108
Alaska	24621.413793	722720
Arizona	427213.866667	6468732
Arkansas	38965.253333	2938538
California	643691.017241	37700034
Colorado	78878.968750	5119480
Connecticut	447464.625000	3589759
Delaware	299930.333333	907916
District of Columbia	605126.000000	620472
Florida	281341.641791	19105533
Georgia	61090.905660	9812280
Hawaii	272796.000000	1378227
Idaho	35704.227273	1584134
Illinois	125894.598039	12861882
Indiana	70549.891304	6516845
Iowa	30815.090909	3065389
Kansas	27226.895238	2869917
Kentucky	36232.808333	4367882
Louisiana	71014.859375	4575381
Maine	82980.937500	1328257
Maryland	241183.708333	5844171
Massachusetts	468931.142857	6611797
Michigan	119004.445783	9876589

Minnesota	61044.862069	5348119
Mississippi	36223.365854	2977999
Missouri	52139.582609	6010587
Montana	17690.053571	997746
Nebraska	19677.688172	1842383
Nevada	159025.882353	2718819
New Hampshire	131670.800000	1318344
New Jersey	419232.428571	8842934
New Mexico	62567.909091	2078226
New York	312950.322581	19523202
North Carolina	95589.790000	9651025
North Dakota	12726.981132	685326
Ohio	131145.068182	11545442
Oklahoma	48825.922078	3786626
Oregon	106610.333333	3868509
Pennsylvania	189731.552239	12745202
Rhode Island	210643.800000	1051856
South Carolina	100780.304348	4672733
South Dakota	12368.166667	824289
Tennessee	66911.421053	6398408
Texas	99387.255906	25654464
Utah	95704.344828	2816440
Vermont	44713.142857	626687
Virginia	60344.263158	8110783
Washington	172898.974359	6823229
West Virginia	33713.181818	1854948
Wisconsin	79030.611111	5709720
Wyoming	24544.173913	567768

## 4 Scales

```
[47]: df = pd.DataFrame(['A+', 'A', 'A-', 'B+', 'B', 'B-', 'C+', 'C', 'C-', 'D+', 'D'],
                        index=['excellent', 'excellent', 'excellent', 'good', 'good',
                        'good', 'ok', 'ok', 'ok', 'poor', 'poor'])
df.rename(columns={0: 'Grades'}, inplace=True)
df
```

```
[47]:      Grades
excellent  A+
excellent  A
excellent  A-
good       B+
good       B
good       B-
ok         C+
```

```

ok          C
ok          C-
poor        D+
poor        D

```

```
[48]: df['Grades'].astype('category').head()
```

```
[48]: excellent    A+
      excellent    A
      excellent    A-
      good         B+
      good         B
      Name: Grades, dtype: category
      Categories (11, object): [A, A+, A-, B, ..., C+, C-, D, D+]
```

```
[49]: grades = df['Grades'].astype('category',
                                   categories=['D', 'D+', 'C-', 'C', 'C+', 'B-', 'B',
                                   → 'B+', 'A-', 'A', 'A+'],
                                   ordered=True)
      grades.head()
```

```
[49]: excellent    A+
      excellent    A
      excellent    A-
      good         B+
      good         B
      Name: Grades, dtype: category
      Categories (11, object): [D < D+ < C- < C ... B+ < A- < A < A+]
```

```
[50]: grades > 'C'
```

```
[50]: excellent    True
      excellent    True
      excellent    True
      good         True
      good         True
      good         True
      ok           True
      ok           False
      ok           False
      poor         False
      poor         False
      Name: Grades, dtype: bool
```

```
[51]: df = pd.read_csv('census.csv')
      df = df[df['SUMLEV']==50]
      df = df.set_index('STNAME').groupby(level=0)['CENSUS2010POP'].agg({'avg': np.
      → average})
      pd.cut(df['avg'],10)
```

[51]: STNAME

Alabama	(11706.0871, 75333.413]
Alaska	(11706.0871, 75333.413]
Arizona	(390320.176, 453317.529]
Arkansas	(11706.0871, 75333.413]
California	(579312.234, 642309.586]
Colorado	(75333.413, 138330.766]
Connecticut	(390320.176, 453317.529]
Delaware	(264325.471, 327322.823]
District of Columbia	(579312.234, 642309.586]
Florida	(264325.471, 327322.823]
Georgia	(11706.0871, 75333.413]
Hawaii	(264325.471, 327322.823]
Idaho	(11706.0871, 75333.413]
Illinois	(75333.413, 138330.766]
Indiana	(11706.0871, 75333.413]
Iowa	(11706.0871, 75333.413]
Kansas	(11706.0871, 75333.413]
Kentucky	(11706.0871, 75333.413]
Louisiana	(11706.0871, 75333.413]
Maine	(75333.413, 138330.766]
Maryland	(201328.118, 264325.471]
Massachusetts	(453317.529, 516314.881]
Michigan	(75333.413, 138330.766]
Minnesota	(11706.0871, 75333.413]
Mississippi	(11706.0871, 75333.413]
Missouri	(11706.0871, 75333.413]
Montana	(11706.0871, 75333.413]
Nebraska	(11706.0871, 75333.413]
Nevada	(138330.766, 201328.118]
New Hampshire	(75333.413, 138330.766]
New Jersey	(390320.176, 453317.529]
New Mexico	(11706.0871, 75333.413]
New York	(264325.471, 327322.823]
North Carolina	(75333.413, 138330.766]
North Dakota	(11706.0871, 75333.413]
Ohio	(75333.413, 138330.766]
Oklahoma	(11706.0871, 75333.413]
Oregon	(75333.413, 138330.766]
Pennsylvania	(138330.766, 201328.118]
Rhode Island	(201328.118, 264325.471]
South Carolina	(75333.413, 138330.766]
South Dakota	(11706.0871, 75333.413]
Tennessee	(11706.0871, 75333.413]
Texas	(75333.413, 138330.766]
Utah	(75333.413, 138330.766]
Vermont	(11706.0871, 75333.413]

```

Virginia          (11706.0871, 75333.413]
Washington        (138330.766, 201328.118]
West Virginia     (11706.0871, 75333.413]
Wisconsin          (75333.413, 138330.766]
Wyoming           (11706.0871, 75333.413]
Name: avg, dtype: category
Categories (10, object): [(11706.0871, 75333.413] < (75333.413, 138330.766] <
(138330.766, 201328.118] < (201328.118, 264325.471] ... (390320.176, 453317.529]
< (453317.529, 516314.881] < (516314.881, 579312.234] < (579312.234,
642309.586]]

```

## 5 Pivot Tables

```
[52]: #http://open.canada.ca/data/en/dataset/98f1a129-f628-4ce4-b24d-6f16bf24dd64
df = pd.read_csv('cars.csv')
```

```
[53]: df.head()
```

```
[53]:
```

	YEAR	Make	Model	Size	(kW)	Unnamed: 5	TYPE	\
0	2012	MITSUBISHI	i-MiEV	SUBCOMPACT	49	A1	B	
1	2012	NISSAN	LEAF	MID-SIZE	80	A1	B	
2	2013	FORD	FOCUS ELECTRIC	COMPACT	107	A1	B	
3	2013	MITSUBISHI	i-MiEV	SUBCOMPACT	49	A1	B	
4	2013	NISSAN	LEAF	MID-SIZE	80	A1	B	

  

	CITY (kWh/100 km)	HWY (kWh/100 km)	COMB (kWh/100 km)	CITY (Le/100 km)	\
0	16.9	21.4	18.7	1.9	
1	19.3	23.0	21.1	2.2	
2	19.0	21.1	20.0	2.1	
3	16.9	21.4	18.7	1.9	
4	19.3	23.0	21.1	2.2	

  

	HWY (Le/100 km)	COMB (Le/100 km)	(g/km)	RATING	(km)	TIME (h)
0	2.4	2.1	0	n/a	100	7
1	2.6	2.4	0	n/a	117	7
2	2.4	2.2	0	n/a	122	4
3	2.4	2.1	0	n/a	100	7
4	2.6	2.4	0	n/a	117	7

```
[54]: df.pivot_table(values='(kW)', index='YEAR', columns='Make', aggfunc=np.mean)
```

```
[54]:
```

	Make	BMW	CHEVROLET	FORD	KIA	MITSUBISHI	NISSAN	SMART	TESLA
YEAR									
2012		NaN	NaN	NaN	NaN	49.0	80.0	NaN	NaN
2013		NaN	NaN	107.0	NaN	49.0	80.0	35.0	280.000000
2014		NaN	104.0	107.0	NaN	49.0	80.0	35.0	268.333333
2015		125.0	104.0	107.0	81.0	49.0	80.0	35.0	320.666667
2016		125.0	104.0	107.0	81.0	49.0	80.0	35.0	409.700000

```
[55]: df.pivot_table(values='(kW)', index='YEAR', columns='Make', aggfunc=[np.mean,np.
      ↪min], margins=True)
```

```
[55]:
```

	mean								
Make	BMW	CHEVROLET	FORD	KIA	MITSUBISHI	NISSAN	SMART	TESLA	
YEAR									
2012	NaN	NaN	NaN	NaN	49.0	80.0	NaN	NaN	
2013	NaN	NaN	107.0	NaN	49.0	80.0	35.0	280.000000	
2014	NaN	104.0	107.0	NaN	49.0	80.0	35.0	268.333333	
2015	125.0	104.0	107.0	81.0	49.0	80.0	35.0	320.666667	
2016	125.0	104.0	107.0	81.0	49.0	80.0	35.0	409.700000	
All	125.0	104.0	107.0	81.0	49.0	80.0	35.0	345.478261	

  

```

      amin
Make      All  BMW CHEVROLET  FORD  KIA MITSUBISHI  NISSAN  SMART  TESLA
YEAR
2012  64.500000  NaN      NaN  NaN  NaN      49.0  80.0  NaN  NaN
2013  158.444444  NaN      NaN  107.0  NaN      49.0  80.0  35.0  270.0
2014  135.000000  NaN     104.0  107.0  NaN      49.0  80.0  35.0  225.0
2015  181.428571  125.0    104.0  107.0  81.0      49.0  80.0  35.0  280.0
2016  252.263158  125.0    104.0  107.0  81.0      49.0  80.0  35.0  283.0
All   190.622642  125.0    104.0  107.0  81.0      49.0  80.0  35.0  225.0

```

  

```

Make  All
YEAR
2012  49.0
2013  35.0
2014  35.0
2015  35.0
2016  35.0
All   35.0

```

## 6 Date Functionality in Pandas

```
[56]: import pandas as pd
      import numpy as np
```

### 6.0.1 Timestamp

```
[57]: pd.Timestamp('9/1/2016 10:05AM')
```

```
[57]: Timestamp('2016-09-01 10:05:00')
```

## 6.0.2 Period

```
[58]: pd.Period('1/2016')
```

```
[58]: Period('2016-01', 'M')
```

```
[59]: pd.Period('3/5/2016')
```

```
[59]: Period('2016-03-05', 'D')
```

## 6.0.3 DatetimeIndex

```
[60]: t1 = pd.Series(list('abc'), [pd.Timestamp('2016-09-01'), pd.  
    ↳Timestamp('2016-09-02'), pd.Timestamp('2016-09-03')])  
t1
```

```
[60]: 2016-09-01    a  
      2016-09-02    b  
      2016-09-03    c  
      dtype: object
```

```
[61]: type(t1.index)
```

```
[61]: pandas.tseries.index.DatetimeIndex
```

## 6.0.4 PeriodIndex

```
[62]: t2 = pd.Series(list('def'), [pd.Period('2016-09'), pd.Period('2016-10'), pd.  
    ↳Period('2016-11')])  
t2
```

```
[62]: 2016-09    d  
      2016-10    e  
      2016-11    f  
      Freq: M, dtype: object
```

```
[63]: type(t2.index)
```

```
[63]: pandas.tseries.period.PeriodIndex
```

## 6.0.5 Converting to Datetime

```
[64]: d1 = ['2 June 2013', 'Aug 29, 2014', '2015-06-26', '7/12/16']  
ts3 = pd.DataFrame(np.random.randint(10, 100, (4,2)), index=d1,  
    ↳columns=list('ab'))  
ts3
```

```
[64]:           a    b  
2 June 2013   24   39  
Aug 29, 2014  17   42  
2015-06-26   72   99
```

```
7/12/16      12  69
```

```
[65]: ts3.index = pd.to_datetime(ts3.index)
      ts3
```

```
[65]:
```

	a	b
2013-06-02	24	39
2014-08-29	17	42
2015-06-26	72	99
2016-07-12	12	69

```
[66]: pd.to_datetime('4.7.12', dayfirst=True)
```

```
[66]: Timestamp('2012-07-04 00:00:00')
```

### 6.0.6 Timedeltas

```
[67]: pd.Timestamp('9/3/2016')-pd.Timestamp('9/1/2016')
```

```
[67]: Timedelta('2 days 00:00:00')
```

```
[68]: pd.Timestamp('9/2/2016 8:10AM') + pd.Timedelta('12D 3H')
```

```
[68]: Timestamp('2016-09-14 11:10:00')
```

### 6.0.7 Working with Dates in a Dataframe

```
[69]: dates = pd.date_range('10-01-2016', periods=9, freq='2W-SUN')
      dates
```

```
[69]: DatetimeIndex(['2016-10-02', '2016-10-16', '2016-10-30', '2016-11-13',
                    '2016-11-27', '2016-12-11', '2016-12-25', '2017-01-08',
                    '2017-01-22'],
                    dtype='datetime64[ns]', freq='2W-SUN')
```

```
[70]: df = pd.DataFrame({'Count 1': 100 + np.random.randint(-5, 10, 9).cumsum(),
                        'Count 2': 120 + np.random.randint(-5, 10, 9)}, index=dates)
      df
```

```
[70]:
```

	Count 1	Count 2
2016-10-02	101	122
2016-10-16	98	128
2016-10-30	95	117
2016-11-13	92	127
2016-11-27	87	119
2016-12-11	93	117
2016-12-25	102	127
2017-01-08	99	124
2017-01-22	105	121

```
[71]: df.index.weekday_name
```



```
[71]: array(['Sunday', 'Sunday', 'Sunday', 'Sunday', 'Sunday', 'Sunday',  
        'Sunday', 'Sunday', 'Sunday'], dtype=object)
```

```
[72]: df.diff()
```

```
[72]:
```

	Count 1	Count 2
2016-10-02	NaN	NaN
2016-10-16	-3.0	6.0
2016-10-30	-3.0	-11.0
2016-11-13	-3.0	10.0
2016-11-27	-5.0	-8.0
2016-12-11	6.0	-2.0
2016-12-25	9.0	10.0
2017-01-08	-3.0	-3.0
2017-01-22	6.0	-3.0

```
[73]: df.resample('M').mean()
```

```
[73]:
```

	Count 1	Count 2
2016-10-31	98.0	122.333333
2016-11-30	89.5	123.000000
2016-12-31	97.5	122.000000
2017-01-31	102.0	122.500000

```
[74]: df['2017']
```

```
[74]:
```

	Count 1	Count 2
2017-01-08	99	124
2017-01-22	105	121

```
[75]: df['2016-12']
```

```
[75]:
```

	Count 1	Count 2
2016-12-11	93	117
2016-12-25	102	127

```
[76]: df['2016-12':]
```

```
[76]:
```

	Count 1	Count 2
2016-12-11	93	117
2016-12-25	102	127
2017-01-08	99	124
2017-01-22	105	121

```
[77]: df.asfreq('W', method='ffill')
```

```
[77]:
```

	Count 1	Count 2
2016-10-02	101	122
2016-10-09	101	122
2016-10-16	98	128
2016-10-23	98	128
2016-10-30	95	117
2016-11-06	95	117

2016-11-13	92	127
2016-11-20	92	127
2016-11-27	87	119
2016-12-04	87	119
2016-12-11	93	117
2016-12-18	93	117
2016-12-25	102	127
2017-01-01	102	127
2017-01-08	99	124
2017-01-15	99	124
2017-01-22	105	121

```
[78]: import matplotlib.pyplot as plt
      %matplotlib inline

      df.plot()
```

[78]: <matplotlib.axes.\_subplots.AxesSubplot at 0x7f635e323e48>

