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1: #Clemson Design Thinking, 2021-08-30 (Brygg Ullmer)
2: import csv, sys, traceback
3: covidF      = open('COVID-19_Reported_Patient_Impact_and_Hospital_
4: dataReader  = csv.reader(covidF, delimiter=',');
5:
6: def getFieldsFloat(d, fields): # extract specified float fields from list d
7:     result = []
8:     for field in fields: result.append(float(d[field]))
9:     return result
10:
11: def perc(f): return str(int(100*f))
12:
13: for d in dataReader:
14:     try:
15:         city, state, date              = d[6], d[2], d[1]
16:         tac, tb, taa, icuBeds, icuUsed, icuCovid = getFieldsFloat(d, [35, 31, 34,
17:         covidBeds = perc(tac/tb); ocuBeds=perc(taa/tb); percIcu = perc(icuUsed/icu
18:         if float(percIcu) >= 200: print(','.join([state, city, date, covidBeds, oc
19:     except: pass #traceback.print_exc()
20:
```

			% adult beds covid				% adult beds full				% ICU covid				% ICU full					
State	City	Date	% adult beds covid	% adult beds full	% ICU covid	% ICU full	State	City	Date	% adult beds covid	% adult beds full	% ICU covid	% ICU full	State	City	Date	% adult beds covid	% adult beds full	% ICU covid	% ICU full
SC	EASLEY	2021/08/20	36	63	88	90	FL	PANAMA CITY	2021/08/20	55	117	130	156	FL	PANAMA CITY	2021/08/20	55	117	130	156
SC	PICKENS	2021/08/20	25	50			FL	JACKSONVILLE	2021/08/20	35	110	45	100	FL	JACKSONVILLE	2021/08/20	35	110	45	100
SC	SPARTANBURG	2021/08/20	25	83	45	89	FL	JACKSONVILLE BEACH	2021/08/20	64	113	84	93	FL	JACKSONVILLE BEACH	2021/08/20	64	113	84	93
SC	GREER	2021/08/20	43	75	100		IN	COLUMBUS	2021/08/20	31	157	38	68	IN	COLUMBUS	2021/08/20	31	157	38	68
SC	GREER	2021/08/20	31	61	77	90	TX	LAKE JACKSON	2021/08/20	56	113	116	100	TX	LAKE JACKSON	2021/08/20	56	113	116	100
							FL	PANAMA CITY	2021/08/13	64	120	128	162	FL	PANAMA CITY	2021/08/13	64	120	128	162
							FL	MIDDLEBURG	2021/08/13	75	115	155	160	FL	MIDDLEBURG	2021/08/13	75	115	155	160
SC	BEAUFORT	2021/08/20	29	93	80	109	IN	COLUMBUS	2021/08/13	23	144	31	55	IN	COLUMBUS	2021/08/13	23	144	31	55
SC	WALTERBORO	2021/08/20	20	51	67	107	FL	PANAMA CITY	2021/08/06	56	110	101	140	FL	PANAMA CITY	2021/08/06	56	110	101	140
SC	SUMMERVILLE	2021/08/20	20	80	55	96	FL	MIDDLEBURG	2021/08/06	83	117	147	149	FL	MIDDLEBURG	2021/08/06	83	117	147	149
SC	DILLON	2021/08/20	23	64	93	98	FL	JACKSONVILLE	2021/08/06	46	111	49	100	FL	JACKSONVILLE	2021/08/06	46	111	49	100
SC	LORIS	2021/08/20	23	66	64	97	KY	DANVILLE	2021/08/06	26	114	26	66	KY	DANVILLE	2021/08/06	26	114	26	66
SC	MURRELLS INLET	2021/08/20	21	85	30	94	TX	MESQUITE	2021/08/06	100	190	38	43	TX	MESQUITE	2021/08/06	100	190	38	43
SC	MYRTLE BEACH	2021/08/20	22	89	31	94	FL	MIDDLEBURG	2021/07/30	75	115	113	103	FL	MIDDLEBURG	2021/07/30	75	115	113	103
SC	CONWAY	2021/08/20	25	71	70	91	FL	JACKSONVILLE	2021/07/30	41	110	45	100	FL	JACKSONVILLE	2021/07/30	41	110	45	100
							TX	MESQUITE	2021/07/30	97	215	27	30	TX	MESQUITE	2021/07/30	97	215	27	30
							KY	DANVILLE	2021/07/23	7	110	14	22	KY	DANVILLE	2021/07/23	7	110	14	22
SC	MOUNT PLEASANT	2021/08/20	42	65	74	86	TX	MESQUITE	2021/07/23	45	163	14	22	TX	MESQUITE	2021/07/23	45	163	14	22
SC	HARDEEVILLE	2021/08/20	34	69	88		IN	COLUMBUS	2021/06/25	1	128	0	48	IN	COLUMBUS	2021/06/25	1	128	0	48
							MO	KANSAS CITY	2021/06/25	11	114	0	0	MO	KANSAS CITY	2021/06/25	11	114	0	0
SC	ABBEVILLE	2021/08/20	20	53	0	0	TX	CONROE	2021/06/25	0	141	0	95	TX	CONROE	2021/06/25	0	141	0	95
SC	HILTON HEAD ISLAND	2021/08/20	30	84	41	66	IN	COLUMBUS	2021/06/18	1	134	0	57	IN	COLUMBUS	2021/06/18	1	134	0	57
SC	CHARLESTON	2021/08/20	31	78	38	65	IL	WAUKEGAN	2021/05/21	8	111	20	80	IL	WAUKEGAN	2021/05/21	8	111	20	80
AL	FOLEY	2021/08/20	39	76	236	260	IL	WAUKEGAN	2021/05/14	11	113	22	85	IL	WAUKEGAN	2021/05/14	11	113	22	85
SC	GAFNEY	2021/08/20	32	56	62		CO	WHEAT RIDGE	2021/04/23	15	118	23	82	CO	WHEAT RIDGE	2021/04/23	15	118	23	82
SC	JACKSONVILLE	2021/08/20	30	64	206	242	MD	FREDERICK	2021/04/09	25	130	54	100	MD	FREDERICK	2021/04/09	25	130	54	100
SC	PARTON	2021/08/20	24	33	39															
NJ	NEWARK	2021/08/20	0	33	0	382														

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