

DataEng: Data Integration Activity

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repo: <https://github.com/brialee/data-integration>

A. Aggregate Census Data to County Level

Question: Show your aggregated county-level data rows for the following counties:
Loudon County Virginia, Washington County Oregon, Harlan County Kentucky, Malheur
County Oregon

	state	county	total_population	mean_poverty	mean_incomepercap
2230	Oregon	Malheur	30421	24.414286	17966.428571
2241	Oregon	Washington	572071	10.446154	34970.817308
	state	county	total_population	mean_poverty	mean_incomepercap
2968	Virginia	Loudoun	374558	3.884375	50391.015625
	state	county	total_population	mean_poverty	mean_incomepercap
1040	Kentucky	Harlan	27548	33.318182	16010.363636

B. Simplify the COVID Data

Question: Show your simplified COVID data for the counties listed above.

C. Integrate COVID Data with ACS Data

Question: List your integrated data for all counties in the State of Oregon.

	state	county	total_deaths	total_cases	total_population	mean_poverty	mean_incomepercap	cases per 100k	deaths per 100k
2156	Oregon	Malheur	1465.0	82916	30421	24.414286	17966.428571	272561.717235	4815.752276
2167	Oregon	Washington	3860.0	424620	572071	10.446154	34970.817308	74225.052485	674.741422
2816	Virginia	Loudoun	4729.0	376223	374558	3.884375	50391.015625	100444.523946	1262.554798
1035	Kentucky	Harlan	506.0	38959	27548	33.318182	16010.363636	141422.244809	1836.79396
2994	Virginia	Loudoun	4729.0	376223					
1047	Kentucky	Harlan	506.0	38959					

D. Analysis

- Across all of the counties in the State of Oregon
 - COVID total cases vs. % population in poverty
 - COVID total deaths vs. % population in poverty
 - COVID total cases vs. Per Capita Income level
 - COVID total cases vs. Per Capita Income level
 - COVID cases during December 2020 vs. % population in poverty
 - COVID deaths during December 2020 vs. % population in poverty
 - COVID cases during December 2020 vs. Per Capita Income level
 - COVID cases during December 2020 vs. Per Capita Income level
- Across all of the counties in the entire USA
 - COVID total cases vs. % population in poverty
 - COVID total deaths vs. % population in poverty
 - COVID total cases vs. Per Capita Income level
 - COVID total cases vs. Per Capita Income level
 - COVID cases during December 2020 vs. % population in poverty
 - COVID deaths during December 2020 vs. % population in poverty
 - COVID cases during December 2020 vs. Per Capita Income level
 - COVID cases during December 2020 vs. Per Capita Income level

None of the above comparison were within the threshold for my analysis.