Data Placement Test Answers

Data Placement Test

The following test will determine your best fit in the class - Track 1, the basic data or
Track 2, more advanced data. I think some people will migrate from Track 1 to Track 2 over the
course of the semester. Others may stay in Track 1. That's fine. I just want to have a decent
fit for everyone.

The task involves following the instructions below to download data, make calculations in
Excel and build a Tableau chart with per capita calculations.

1) Download data: master_file_jan7.csv
--This is the Arkansascovid.com data file as of Jan 7, 2021
--"positive" represents total positive cases
--Arkansas_all_counties represents the statewide totals
--pop_5yr_est_2018 represents the 2018 population
--Create a new column with the positive per capita calculation

Part 1, Create a Google Sheet, answer the following questions:
1) What day did the state reach .07 cases per capita or 7% of the population?
Answer: On Dec. 24, 2020, Arkansas statewide reported .0706 COVID-19 cases per capita.

2) Which county had the highest per capita rate in Jan 1, 2021?
Answer: On Jan. 1, 2021, Lincoln County led the state with 0.2065 cases per capita

3) Supply the rates for Washington County and its contiguous counties.
Answer:
Here are the COVID-19 positivity rates per capita on Jan. 1, 2021 for Washington and its
surrounding counties:
Washington - .095
Benton - .0719
Crawford - .073
Madison - .065

4) Create a separate tab in the spreadsheet, listing just the following: top 10 counties per
capita as of Nov. 26, with the date, county, positive, pop_5yr_est_2018, and your per capita
calculation, sorted highest to lowest

5) Find the per capita statewide rate for Jan 7, 2021. List the counties were above the
statewide rate.

The COVID-19 positive rate was 0.82 per capita on Jan 7, 2021.
There were 26 counties with a higher rate:
Lincoln
Jackson
Lee
Chicot
Sevier
Yell
HotSpring
St.Francis
Mississippi

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Poinsett
Greene
Izard
Washington
Craighead
Lawrence
Jefferson
Bradley
Pope
Crittenden
Clay
Cross
Randolph
Howard
Desha
Drew
Sebastian


6) Upload your spreadsheet as a Google Sheet with these calculations.
7) Post the Google Doc and Google Sheets links in Teams by 11:59 pm Tuesday



Use Tableau Public or Desktop to create bar chart:
--Counties above the statewide per capita rate on Jan 7, 2021.
--Have a news headline and proper sourcing.
--Do a screenshot or export an image file of your chart.
--Consult this tutorial to build a Tableau chart.
--Embed the Tableau image in your Google Doc.
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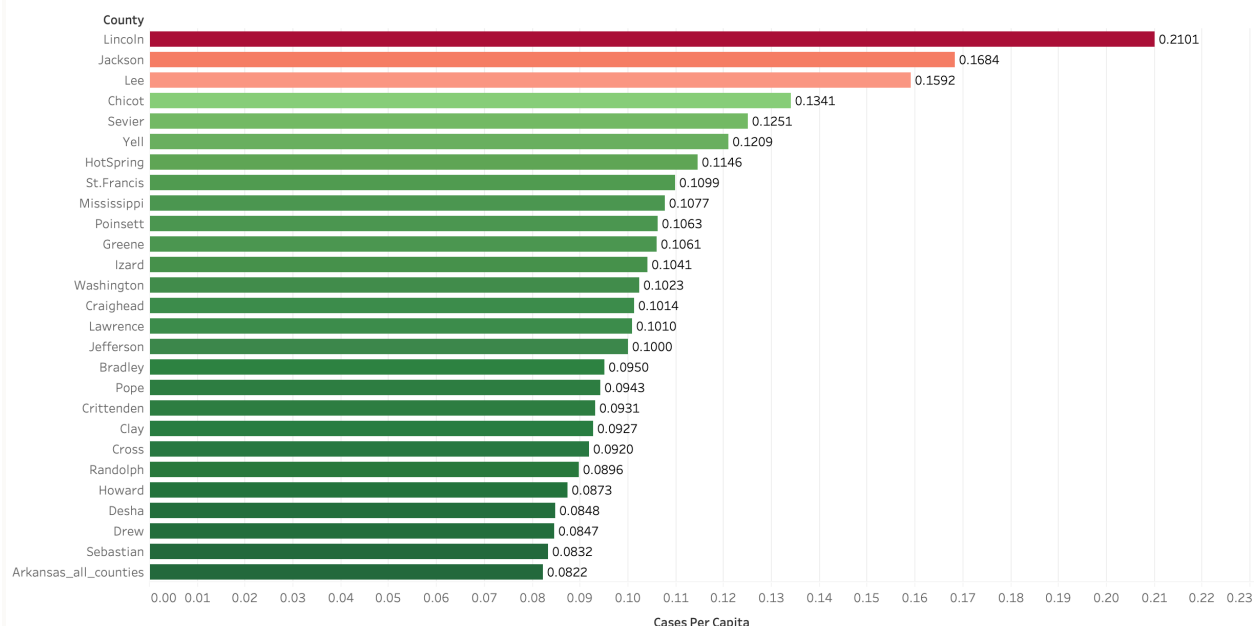
Lincoln County, 25 Others Report Above Average Per-Capita COVID-19 Positivity

Source: Arkansas Dept. of Health data. Date, Jan 7, 2021. https://experience.arcgis.com/experience/c2ef4a4fcbe5458fbf2e48a21e4fece9

County	Cases Per Capita
Lincoln	0.2101
Jackson	0.1684
Lee	0.1592
Chicot	0.1341
Sevier	0.1251
Yell	0.1209
HotSpring	0.1146
St.Francis	0.1099
Mississippi	0.1077
Poinsett	0.1063
Greene	0.1061
Izard	0.1041
Washington	0.1023
Craighead	0.1014
Lawrence	0.1010
Jefferson	0.1000
Bradley	0.0950
Pope	0.0943
Crittenden	0.0931
Clay	0.0927
Cross	0.0920
Randolph	0.0896
Howard	0.0873
Desha	0.0848
Drew	0.0847
Sebastian	0.0832
Arkansas_all_counties	0.0822

Post all of your answers and links to a single Google Doc. Post a link to that Google Doc (make sure I can edit it!) on Blackboard by 11:59 pm Tuesday

If you can't figure out something, do as much as you can and explain what you can't figure out. Do not spend more than two hours on this exercise.

Data:
https://docs.google.com/spreadsheets/d/1YFayBtoQBMxw7M2e3ZDbOXflRlhYeC4_mCRJCNCXFZQ/edit#gid=1480709327