

Census Demographic ACS

This enrichment dataset contains demographic information of different countries in Unites States. This data is taken from the United States Census Bureau. This data represents population on factors such as age, gender, race, citizens and many more.

Column Name (Variable)	Data Type	Description of the variable
countyFIPS	Int64	County ID
GEO_ID	Object	Geography ID with last 5 digits as countyFIPS
Name	Object	Name of the county and State
DP05_0001E	Object	Estimation of total population
DP05_0002E	Object	Estimation of total Male population
DP05_0003E	Object	Estimation of total Female population
DP05_0004E	Object	Sex ratio of males per 100 Females
DP05_0005E	Object	Total population under 5 years of age
DP05_0006E	Object	Total population between 5 to 9 years of age
DP05_0007E	Object	Total population between 10 to 14 years of age
DP05_0008E	Object	Total population estimate between 15 to 19 years of age
DP05_0009E	Object	Total population estimate between 20 to 24 years of age
DP05_0010E	Object	Total population estimate between 25 to 34 years of age
DP05_0011E	Object	Total population estimate between 35 to 44 years of age
DP05_0012E	Object	Total population estimate between 45 to 54 years of age
DP05_0013E	Object	Total population estimate between 55 to 59 years of age
DP05_0014E	Object	Total population estimate between 60 to 64 years of age
DP05_0015E	Object	Total population estimate between 65 to 74 years of age
DP05_0016E	Object	Total population estimate between 75 to 84 years of age

DP05_0017E	Object	Total population estimate of 85 years and over
DP05_0018E	Object	Total population estimate of median age
DP05_0037E	Object	Total population of white race
DP05_0038E	Object	Total population of Black or African American
DP05_0039E	Object	Total population of American Indian and Alaska Native
DP05_0044E	Object	Total population of Asian race
DP05_0045E	Object	Total population of Asian Indian
DP05_0052E	Object	Total population of Native Hawaiian and other Pacific Islander
DP05_0086E	Object	Estimated Total Housing Units
DP05_0087E	Object	Estimated Citizens over 18
DP05_0088E	Object	Estimated Male citizens
DP05_0089E	Object	Estimated Femlae Citizens

How to merge the enrichment dataset with covid-19 dataset ?

The enrichment dataset consists of a column name GEO_ID in which last 5 digits are equal to the countyFIPS in covid-19 dataset. So we create a separate column for countyFIPS in enrichment dataset by splitting the GEO_ID. Then we can perform a merge operation between two datasets.

How demographic enrichment dataset helps in analysis of covid-19 spread ?

We know that covid-19 has a big impact on the world population. This demographic enrichment dataset helps in analyzing which race, age group, state, sex(male/female), county and state got most affected in USA.

Hypothesis questions

- 1) Are children more affected by covid-19 ?
- 2) Did large states of America failed to control the spread of covid-19 ?

- 3) Did death count of Senior citizens more compared to middle age ?
- 4) Are small states most affected by covid-19 ?
- 5) Are the covid cases more in higher housing unit areas ?
- 6) Which Race is more affected by the covid-19 ?

Last week trends in a state.

I have chosen the Virginia state to calculate the last week trends. And the results are as below. The cases during the last week are stable.

