[1] "countyid" the 4 digit geoid

[2] "countyname"

[3] "county\_pop2019" from census data

[4] "female"

[5] "male"

[6] "american\_indian\_or\_alaska\_native"

[7] "asian\_or\_pacific\_islander"

[8] "black\_or\_african\_american"

[9] "hispanic\_or\_latino"

[10] "white"

[11] "estimate\_housing\_occupancy\_total\_housing\_units\_occupied\_housing\_units"

[12] "percent\_housing\_occupancy\_total\_housing\_units\_occupied\_housing\_units"

[13] "estimate\_housing\_occupancy\_total\_housing\_units\_vacant\_housing\_units"

[14] "percent\_housing\_occupancy\_total\_housing\_units\_vacant\_housing\_units"

[15] "estimate\_housing\_occupancy\_total\_housing\_units\_homeowner\_vacancy\_rate"

[16] "estimate\_housing\_occupancy\_total\_housing\_units\_rental\_vacancy\_rate"

[17] "estimate\_units\_in\_structure\_total\_housing\_units\_1\_unit\_detached"

[18] "estimate\_units\_in\_structure\_total\_housing\_units\_1\_unit\_attached"

[19] "estimate\_units\_in\_structure\_total\_housing\_units\_2\_units"

[20] "estimate\_units\_in\_structure\_total\_housing\_units\_3\_or\_4\_units"

[21] "estimate\_units\_in\_structure\_total\_housing\_units\_5\_to\_9\_units"

[22] "estimate\_units\_in\_structure\_total\_housing\_units\_10\_to\_19\_units"

[23] "estimate\_units\_in\_structure\_total\_housing\_units\_20\_or\_more\_units"

[24] "estimate\_units\_in\_structure\_total\_housing\_units\_mobile\_home"

[25] "estimate\_units\_in\_structure\_total\_housing\_units\_boat\_rv\_van\_etc"

[26] "estimate\_year\_structure\_built\_total\_housing\_units\_built\_2014\_or\_later"

[27] "percent\_year\_structure\_built\_total\_housing\_units\_built\_2014\_or\_later"

[28] "estimate\_year\_structure\_built\_total\_housing\_units\_built\_2010\_to\_2013"

[29] "percent\_year\_structure\_built\_total\_housing\_units\_built\_2010\_to\_2013"

[30] "estimate\_year\_structure\_built\_total\_housing\_units\_built\_2000\_to\_2009"

[31] "percent\_year\_structure\_built\_total\_housing\_units\_built\_2000\_to\_2009"

[32] "estimate\_year\_structure\_built\_total\_housing\_units\_built\_1990\_to\_1999"

[33] "percent\_year\_structure\_built\_total\_housing\_units\_built\_1990\_to\_1999"

[34] "estimate\_year\_structure\_built\_total\_housing\_units\_built\_1980\_to\_1989"

[35] "percent\_year\_structure\_built\_total\_housing\_units\_built\_1980\_to\_1989"

[36] "estimate\_year\_structure\_built\_total\_housing\_units\_built\_1970\_to\_1979"

[37] "percent\_year\_structure\_built\_total\_housing\_units\_built\_1970\_to\_1979"

[38] "estimate\_year\_structure\_built\_total\_housing\_units\_built\_1960\_to\_1969"

[39] "percent\_year\_structure\_built\_total\_housing\_units\_built\_1960\_to\_1969"

[40] "estimate\_year\_structure\_built\_total\_housing\_units\_built\_1950\_to\_1959"

[41] "percent\_year\_structure\_built\_total\_housing\_units\_built\_1950\_to\_1959"

[42] "estimate\_year\_structure\_built\_total\_housing\_units\_built\_1940\_to\_1949"

[43] "percent\_year\_structure\_built\_total\_housing\_units\_built\_1940\_to\_1949"

[44] "estimate\_year\_structure\_built\_total\_housing\_units\_built\_1939\_or\_earlier"

[45] "percent\_year\_structure\_built\_total\_housing\_units\_built\_1939\_or\_earlier"

[46] "estimate\_rooms\_total\_housing\_units\_median\_rooms"

[47] "estimate\_occupants\_per\_room\_occupied\_housing\_units"

[48] "estimate\_occupants\_per\_room\_occupied\_housing\_units\_1\_00\_or\_less"

[49] "estimate\_occupants\_per\_room\_occupied\_housing\_units\_1\_01\_to\_1\_50"

[50] "estimate\_occupants\_per\_room\_occupied\_housing\_units\_1\_51\_or\_more"

[51] "percent\_new" percentage of house built after 1960

[52] "percent\_old" percentage of house built before 1960

[53] "county\_pop\_2020" population data from California Department of Public Health, should be the most recent pop data, only used for var 56 and 57.

[54] "total\_confirmed\_cases"

[55] "total\_deaths"

[56] "death\_rate" per 100,000 people

[57] "confirmed\_case\_rate" per 100,000 people

[58] "percent\_female" var 58-64 all calculated based on county\_pop2019

[59] "percent\_male"

[60] "percent\_american\_indian\_or\_alaska\_native"

[61] "percent\_asian\_or\_pacific\_islander"

[62] "percent\_black\_or\_african\_american"

[63] "percent\_hispanic\_or\_latino"

[64] "percent\_white"

[65] "total\_housing\_units" total # housing units, sum(var11+var13)

[66] "Parks usage percent during covid"

[67] "Workspace usage percent during covid"

[68] "Residential usage percent during covid"

[69] "Housing units in multi-unit structures percent"

[70] "Persons per household"

[71] "Median household income in dollar"

[72] "dominant\_race"

[73] "dominant\_ethnicity"

[74] "dominant\_race\_white" binary variable for [72]

[75] "dominant\_ethnicity\_hispanic\_or\_latino" binary variable for [73]

[76] "occupants\_per\_room\_1\_more\_vs\_1\_less" calculated based on [48],[49],[50]

[77] "percnet\_housing\_small" % of housing with more than 1.5 occupants per room

[78] "percnet\_housing\_small\_medium" % of housing with more than 1 occupants per room

Draft correlation

death\_rate confirmed\_case\_rate

Percent\_housing\_occupancy\_total\_

housing\_units\_occupied\_housing\_units 0.03580914 0.1899866

Percent\_housing\_occupancy\_total\_

housing\_units\_vacant\_housing\_units -0.03580914 -0.1899866

percent\_new 0.11159658 0.1435488

percent\_old -0.11002605 -0.1419614

percent\_female -0.24424351 -0.5328700

percent\_male 0.24424351 0.5328700

percent\_american\_indian\_or\_alaska\_native -0.22038428 -0.3225886

percent\_asian\_or\_pacific\_islander -0.15091288 -0.2045021

percent\_black\_or\_african\_american 0.11138765 0.1684186

percent\_hispanic\_or\_latino 0.73561457 0.8584442

percent\_white -0.62317006 -0.7146931