Vaccination rate mini project

Pham Vo

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## Getting Started

# Import vaccination data  
vax <- read.csv("covid19vaccinesbyzipcode\_test.csv")  
tail(vax)

## as\_of\_date zip\_code\_tabulation\_area local\_health\_jurisdiction  
## 107599 2022-03-01 91945 San Diego  
## 107600 2022-03-01 91741 Los Angeles  
## 107601 2022-03-01 91768 Los Angeles  
## 107602 2022-03-01 91345 Los Angeles  
## 107603 2022-03-01 91356 Los Angeles  
## 107604 2022-03-01 94402 San Mateo  
## county vaccine\_equity\_metric\_quartile vem\_source  
## 107599 San Diego 2 Healthy Places Index Score  
## 107600 Los Angeles 3 Healthy Places Index Score  
## 107601 Los Angeles 1 Healthy Places Index Score  
## 107602 Los Angeles 2 Healthy Places Index Score  
## 107603 Los Angeles 3 Healthy Places Index Score  
## 107604 San Mateo 4 Healthy Places Index Score  
## age12\_plus\_population age5\_plus\_population persons\_fully\_vaccinated  
## 107599 22820.5 25486 18164  
## 107600 22895.7 25243 19051  
## 107601 29837.1 32658 20587  
## 107602 16767.4 18029 14872  
## 107603 26392.1 28379 22863  
## 107604 21862.1 24150 23094  
## persons\_partially\_vaccinated percent\_of\_population\_fully\_vaccinated  
## 107599 4032 0.712705  
## 107600 1438 0.754704  
## 107601 2467 0.630382  
## 107602 1371 0.824893  
## 107603 2114 0.805631  
## 107604 1697 0.956273  
## percent\_of\_population\_partially\_vaccinated  
## 107599 0.158205  
## 107600 0.056966  
## 107601 0.075540  
## 107602 0.076044  
## 107603 0.074492  
## 107604 0.070269  
## percent\_of\_population\_with\_1\_plus\_dose booster\_recip\_count redacted  
## 107599 0.870910 6542 No  
## 107600 0.811670 10331 No  
## 107601 0.705922 8694 No  
## 107602 0.900937 6715 No  
## 107603 0.880123 12372 No  
## 107604 1.000000 16049 No

Q1. What column details the total number of people fully vaccinated? persons\_fully\_vaccinated

Q2. What column details the Zip code tabulation area? zip\_code\_tabulation\_area

Q3. What is the earliest date in this dataset? 2021-01-05

Q4. What is the latest date in this dataset? 2022-03-01

# As we have done previously, let’s call the skim() function from the skimr package to get a quick overview of this dataset  
  
library(skimr)  
skimr::skim(vax)

Data summary

|  |  |
| --- | --- |
| Name | vax |
| Number of rows | 107604 |
| Number of columns | 15 |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Column type frequency: |  |
| character | 5 |
| numeric | 10 |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Group variables | None |

**Variable type: character**

| skim\_variable | n\_missing | complete\_rate | min | max | empty | n\_unique | whitespace |
| --- | --- | --- | --- | --- | --- | --- | --- |
| as\_of\_date | 0 | 1 | 10 | 10 | 0 | 61 | 0 |
| local\_health\_jurisdiction | 0 | 1 | 0 | 15 | 305 | 62 | 0 |
| county | 0 | 1 | 0 | 15 | 305 | 59 | 0 |
| vem\_source | 0 | 1 | 15 | 26 | 0 | 3 | 0 |
| redacted | 0 | 1 | 2 | 69 | 0 | 2 | 0 |

**Variable type: numeric**

| skim\_variable | n\_missing | complete\_rate | mean | sd | p0 | p25 | p50 | p75 | p100 | hist |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| zip\_code\_tabulation\_area | 0 | 1.00 | 93665.11 | 1817.39 | 90001 | 92257.75 | 93658.50 | 95380.50 | 97635.0 | ▃▅▅▇▁ |
| vaccine\_equity\_metric\_quartile | 5307 | 0.95 | 2.44 | 1.11 | 1 | 1.00 | 2.00 | 3.00 | 4.0 | ▇▇▁▇▇ |
| age12\_plus\_population | 0 | 1.00 | 18895.04 | 18993.91 | 0 | 1346.95 | 13685.10 | 31756.12 | 88556.7 | ▇▃▂▁▁ |
| age5\_plus\_population | 0 | 1.00 | 20875.24 | 21106.02 | 0 | 1460.50 | 15364.00 | 34877.00 | 101902.0 | ▇▃▂▁▁ |
| persons\_fully\_vaccinated | 18338 | 0.83 | 12155.61 | 13063.88 | 11 | 1066.25 | 7374.50 | 20005.00 | 77744.0 | ▇▃▁▁▁ |
| persons\_partially\_vaccinated | 18338 | 0.83 | 831.74 | 1348.68 | 11 | 76.00 | 372.00 | 1076.00 | 34219.0 | ▇▁▁▁▁ |
| percent\_of\_population\_fully\_vaccinated | 18338 | 0.83 | 0.51 | 0.26 | 0 | 0.33 | 0.54 | 0.70 | 1.0 | ▅▅▇▇▃ |
| percent\_of\_population\_partially\_vaccinated | 18338 | 0.83 | 0.05 | 0.09 | 0 | 0.01 | 0.03 | 0.05 | 1.0 | ▇▁▁▁▁ |
| percent\_of\_population\_with\_1\_plus\_dose | 18338 | 0.83 | 0.54 | 0.28 | 0 | 0.36 | 0.58 | 0.75 | 1.0 | ▅▃▆▇▅ |
| booster\_recip\_count | 64317 | 0.40 | 4100.55 | 5900.21 | 11 | 176.00 | 1136.00 | 6154.50 | 50602.0 | ▇▁▁▁▁ |

Q5. How many numeric columns are in this dataset? 10

Q6. Note that there are “missing values” in the dataset. How many NA values there in the persons\_fully\_vaccinated column?

sum(is.na(vax$persons\_fully\_vaccinated))

## [1] 18338

Q7. What percent of persons\_fully\_vaccinated values are missing (to 2 significant figures)?

round(sum(is.na(vax$persons\_fully\_vaccinated))/length(vax$persons\_fully\_vaccinated)\*100,2)

## [1] 17.04

## Working with dates

library(lubridate)

##   
## Attaching package: 'lubridate'

## The following objects are masked from 'package:base':  
##   
## date, intersect, setdiff, union

today()

## [1] "2022-03-06"

# Specify that we are using the year-month-day format  
vax$as\_of\_date <- ymd(vax$as\_of\_date)

# Now we can do math with dates. For example: How many days have passed since the first vaccination reported in this dataset  
  
today() - vax$as\_of\_date[1]

## Time difference of 425 days

Q9. How many days have passed since the last update of the dataset?

# Using the last and the first date value we can now determine how many days the dataset span  
  
vax$as\_of\_date[nrow(vax)] - vax$as\_of\_date[1]

## Time difference of 420 days

Q10. How many unique dates are in the dataset (i.e. how many different dates are detailed)?

unique.dates <- (unique(vax$as\_of\_date))  
num.unique.dates <- length(unique.dates)  
num.unique.dates

## [1] 61

## Working with ZIP codes

library(zipcodeR)  
  
# find the centroid of the La Jolla 92037 (i.e. UC San Diego) ZIP code area  
geocode\_zip('92037')

## # A tibble: 1 × 3  
## zipcode lat lng  
## <chr> <dbl> <dbl>  
## 1 92037 32.8 -117.

# Calculate the distance between the centroids of any two ZIP codes in miles  
zip\_distance('92037','92109')

## zipcode\_a zipcode\_b distance  
## 1 92037 92109 2.33

# pull census data about ZIP code areas (including median household income etc.)  
reverse\_zipcode(c('92037', "92109") )

## # A tibble: 2 × 24  
## zipcode zipcode\_type major\_city post\_office\_city common\_city\_list county state  
## <chr> <chr> <chr> <chr> <blob> <chr> <chr>  
## 1 92037 Standard La Jolla La Jolla, CA <raw 20 B> San D… CA   
## 2 92109 Standard San Diego San Diego, CA <raw 21 B> San D… CA   
## # … with 17 more variables: lat <dbl>, lng <dbl>, timezone <chr>,  
## # radius\_in\_miles <dbl>, area\_code\_list <blob>, population <int>,  
## # population\_density <dbl>, land\_area\_in\_sqmi <dbl>,  
## # water\_area\_in\_sqmi <dbl>, housing\_units <int>,  
## # occupied\_housing\_units <int>, median\_home\_value <int>,  
## # median\_household\_income <int>, bounds\_west <dbl>, bounds\_east <dbl>,  
## # bounds\_north <dbl>, bounds\_south <dbl>

# Pull data for all ZIP codes in the dataset  
#zipdata <- reverse\_zipcode( vax$zip\_code\_tabulation\_area )

## Focus on the San Diego area

# Subset to San Diego county only areas  
sd <- vax[vax$county == "San Diego", ]  
sd

## as\_of\_date zip\_code\_tabulation\_area local\_health\_jurisdiction county  
## 2 2021-01-05 92130 San Diego San Diego  
## 13 2021-01-05 91945 San Diego San Diego  
## 33 2021-01-05 91917 San Diego San Diego  
## 54 2021-01-05 92103 San Diego San Diego  
## 57 2021-01-05 92075 San Diego San Diego  
## 58 2021-01-05 92084 San Diego San Diego  
## 83 2021-01-05 92116 San Diego San Diego  
## 91 2021-01-05 92086 San Diego San Diego  
## 92 2021-01-05 92069 San Diego San Diego  
## 109 2021-01-05 92064 San Diego San Diego  
## 117 2021-01-05 92091 San Diego San Diego  
## 119 2021-01-05 92118 San Diego San Diego  
## 120 2021-01-05 92126 San Diego San Diego  
## 125 2021-01-05 92008 San Diego San Diego  
## 134 2021-01-05 92108 San Diego San Diego  
## 135 2021-01-05 92106 San Diego San Diego  
## 137 2021-01-05 92037 San Diego San Diego  
## 139 2021-01-05 92105 San Diego San Diego  
## 145 2021-01-05 92027 San Diego San Diego  
## 148 2021-01-05 92113 San Diego San Diego  
## 151 2021-01-05 92020 San Diego San Diego  
## 152 2021-01-05 92083 San Diego San Diego  
## 153 2021-01-05 92004 San Diego San Diego  
## 162 2021-01-05 92127 San Diego San Diego  
## 163 2021-01-05 92101 San Diego San Diego  
## 164 2021-01-05 92028 San Diego San Diego  
## 165 2021-01-05 92003 San Diego San Diego  
## 171 2021-01-05 92119 San Diego San Diego  
## 173 2021-01-05 92121 San Diego San Diego  
## 177 2021-01-05 92104 San Diego San Diego  
## 179 2021-01-05 92129 San Diego San Diego  
## 180 2021-01-05 92059 San Diego San Diego  
## 200 2021-01-05 91931 San Diego San Diego  
## 201 2021-01-05 92066 San Diego San Diego  
## 223 2021-01-05 92036 San Diego San Diego  
## 224 2021-01-05 92065 San Diego San Diego  
## 225 2021-01-05 92025 San Diego San Diego  
## 234 2021-01-05 92007 San Diego San Diego  
## 238 2021-01-05 92060 San Diego San Diego  
## 243 2021-01-05 91915 San Diego San Diego  
## 410 2021-01-05 91977 San Diego San Diego  
## 527 2021-01-05 92040 San Diego San Diego  
## 635 2021-01-05 92056 San Diego San Diego  
## 679 2021-01-05 92054 San Diego San Diego  
## 796 2021-01-05 92071 San Diego San Diego  
## 797 2021-01-05 92070 San Diego San Diego  
## 802 2021-01-05 92024 San Diego San Diego  
## 805 2021-01-05 92107 San Diego San Diego  
## 806 2021-01-05 92128 San Diego San Diego  
## 814 2021-01-05 92110 San Diego San Diego  
## 822 2021-01-05 92109 San Diego San Diego  
## 827 2021-01-05 92111 San Diego San Diego  
## 847 2021-01-05 92021 San Diego San Diego  
## 991 2021-01-05 91901 San Diego San Diego  
## 1010 2021-01-05 92067 San Diego San Diego  
## 1080 2021-01-05 91902 San Diego San Diego  
## 1095 2021-01-05 92010 San Diego San Diego  
## 1096 2021-01-05 92058 San Diego San Diego  
## 1107 2021-01-05 92132 San Diego San Diego  
## 1109 2021-01-05 92134 San Diego San Diego  
## 1128 2021-01-05 92135 San Diego San Diego  
## 1130 2021-01-05 92145 San Diego San Diego  
## 1132 2021-01-05 92117 San Diego San Diego  
## 1150 2021-01-05 92019 San Diego San Diego  
## 1165 2021-01-05 92011 San Diego San Diego  
## 1167 2021-01-05 92055 San Diego San Diego  
## 1172 2021-01-05 92140 San Diego San Diego  
## 1214 2021-01-05 92102 San Diego San Diego  
## 1223 2021-01-05 91906 San Diego San Diego  
## 1228 2021-01-05 91948 San Diego San Diego  
## 1233 2021-01-05 91916 San Diego San Diego  
## 1234 2021-01-05 91934 San Diego San Diego  
## 1237 2021-01-05 91962 San Diego San Diego  
## 1241 2021-01-05 92082 San Diego San Diego  
## 1259 2021-01-05 91905 San Diego San Diego  
## 1268 2021-01-05 91932 San Diego San Diego  
## 1271 2021-01-05 92029 San Diego San Diego  
## 1274 2021-01-05 92131 San Diego San Diego  
## 1275 2021-01-05 92014 San Diego San Diego  
## 1293 2021-01-05 92057 San Diego San Diego  
## 1301 2021-01-05 92124 San Diego San Diego  
## 1302 2021-01-05 92061 San Diego San Diego  
## 1308 2021-01-05 91913 San Diego San Diego  
## 1312 2021-01-05 91914 San Diego San Diego  
## 1314 2021-01-05 91942 San Diego San Diego  
## 1319 2021-01-05 91950 San Diego San Diego  
## 1320 2021-01-05 91935 San Diego San Diego  
## 1323 2021-01-05 92009 San Diego San Diego  
## 1343 2021-01-05 92122 San Diego San Diego  
## 1346 2021-01-05 92155 San Diego San Diego  
## 1362 2021-01-05 92154 San Diego San Diego  
## 1376 2021-01-05 92115 San Diego San Diego  
## 1377 2021-01-05 92114 San Diego San Diego  
## 1387 2021-01-05 92147 San Diego San Diego  
## 1411 2021-01-05 91978 San Diego San Diego  
## 1416 2021-01-05 91910 San Diego San Diego  
## 1417 2021-01-05 92026 San Diego San Diego  
## 1424 2021-01-05 92120 San Diego San Diego  
## 1529 2021-01-05 92139 San Diego San Diego  
## 1556 2021-01-05 91980 San Diego San Diego  
## 1564 2021-01-05 91911 San Diego San Diego  
## 1567 2021-01-05 91941 San Diego San Diego  
## 1648 2021-01-05 92173 San Diego San Diego  
## 1670 2021-01-05 92081 San Diego San Diego  
## 1671 2021-01-05 91963 San Diego San Diego  
## 1695 2021-01-05 92123 San Diego San Diego  
## 1708 2021-01-05 92078 San Diego San Diego  
## 1765 2021-01-12 91911 San Diego San Diego  
## 1770 2021-01-12 91941 San Diego San Diego  
## 1786 2021-01-12 92057 San Diego San Diego  
## 1791 2021-01-12 92009 San Diego San Diego  
## 1803 2021-01-12 91901 San Diego San Diego  
## 1807 2021-01-12 91963 San Diego San Diego  
## 1844 2021-01-12 92082 San Diego San Diego  
## 1847 2021-01-12 92037 San Diego San Diego  
## 1902 2021-01-12 92075 San Diego San Diego  
## 1910 2021-01-12 92135 San Diego San Diego  
## 1921 2021-01-12 92055 San Diego San Diego  
## 1922 2021-01-12 92060 San Diego San Diego  
## 1926 2021-01-12 92113 San Diego San Diego  
## 1946 2021-01-12 92019 San Diego San Diego  
## 1947 2021-01-12 92155 San Diego San Diego  
## 1950 2021-01-12 92173 San Diego San Diego  
## 1952 2021-01-12 92134 San Diego San Diego  
## 1966 2021-01-12 92116 San Diego San Diego  
## 1970 2021-01-12 92083 San Diego San Diego  
## 1971 2021-01-12 92103 San Diego San Diego  
## 1976 2021-01-12 92066 San Diego San Diego  
## 1981 2021-01-12 92078 San Diego San Diego  
## 1992 2021-01-12 92140 San Diego San Diego  
## 2006 2021-01-12 92084 San Diego San Diego  
## 2010 2021-01-12 92011 San Diego San Diego  
## 2011 2021-01-12 92104 San Diego San Diego  
## 2020 2021-01-12 92123 San Diego San Diego  
## 2022 2021-01-12 92081 San Diego San Diego  
## 2023 2021-01-12 92010 San Diego San Diego  
## 2072 2021-01-12 91902 San Diego San Diego  
## 2089 2021-01-12 92067 San Diego San Diego  
## 2109 2021-01-12 92117 San Diego San Diego  
## 2110 2021-01-12 92091 San Diego San Diego  
## 2114 2021-01-12 92139 San Diego San Diego  
## 2120 2021-01-12 91977 San Diego San Diego  
## 2392 2021-01-12 92122 San Diego San Diego  
## 2398 2021-01-12 91948 San Diego San Diego  
## 2402 2021-01-12 91910 San Diego San Diego  
## 2403 2021-01-12 91905 San Diego San Diego  
## 2405 2021-01-12 91916 San Diego San Diego  
## 2419 2021-01-12 92154 San Diego San Diego  
## 2427 2021-01-12 92114 San Diego San Diego  
## 2434 2021-01-12 92120 San Diego San Diego  
## 2437 2021-01-12 91914 San Diego San Diego  
## 2441 2021-01-12 91934 San Diego San Diego  
## 2443 2021-01-12 92029 San Diego San Diego  
## 2446 2021-01-12 92026 San Diego San Diego  
## 2450 2021-01-12 92131 San Diego San Diego  
## 2474 2021-01-12 91935 San Diego San Diego  
## 2482 2021-01-12 91932 San Diego San Diego  
## 2489 2021-01-12 91962 San Diego San Diego  
## 2490 2021-01-12 91942 San Diego San Diego  
## 2683 2021-01-12 92111 San Diego San Diego  
## 2684 2021-01-12 92110 San Diego San Diego  
## 2685 2021-01-12 92028 San Diego San Diego  
## 2811 2021-01-12 92056 San Diego San Diego  
## 2812 2021-01-12 92054 San Diego San Diego  
## 2813 2021-01-12 92040 San Diego San Diego  
## 2841 2021-01-12 92069 San Diego San Diego  
## 2858 2021-01-12 92126 San Diego San Diego  
## 2877 2021-01-12 92086 San Diego San Diego  
## 2928 2021-01-12 91945 San Diego San Diego  
## 2944 2021-01-12 91915 San Diego San Diego  
## 2950 2021-01-12 92108 San Diego San Diego  
## 2951 2021-01-12 92025 San Diego San Diego  
## 2954 2021-01-12 92007 San Diego San Diego  
## 2961 2021-01-12 92036 San Diego San Diego  
## 2966 2021-01-12 92106 San Diego San Diego  
## 2968 2021-01-12 92065 San Diego San Diego  
## 2970 2021-01-12 92070 San Diego San Diego  
## 2973 2021-01-12 92119 San Diego San Diego  
## 2974 2021-01-12 92003 San Diego San Diego  
## 2975 2021-01-12 92128 San Diego San Diego  
## 2980 2021-01-12 92121 San Diego San Diego  
## 2982 2021-01-12 92101 San Diego San Diego  
## 2983 2021-01-12 92071 San Diego San Diego  
## 2985 2021-01-12 92105 San Diego San Diego  
## 2987 2021-01-12 92109 San Diego San Diego  
## 2992 2021-01-12 92021 San Diego San Diego  
## 2997 2021-01-12 92008 San Diego San Diego  
## 3003 2021-01-12 91931 San Diego San Diego  
## 3024 2021-01-12 91917 San Diego San Diego  
## 3030 2021-01-12 92027 San Diego San Diego  
## 3032 2021-01-12 92004 San Diego San Diego  
## 3043 2021-01-12 92130 San Diego San Diego  
## 3092 2021-01-12 92118 San Diego San Diego  
## 3133 2021-01-12 91980 San Diego San Diego  
## 3357 2021-01-12 92102 San Diego San Diego  
## 3359 2021-01-12 92145 San Diego San Diego  
## 3370 2021-01-12 92024 San Diego San Diego  
## 3382 2021-01-12 91978 San Diego San Diego  
## 3393 2021-01-12 92107 San Diego San Diego  
## 3406 2021-01-12 92132 San Diego San Diego  
## 3408 2021-01-12 92127 San Diego San Diego  
## 3417 2021-01-12 92020 San Diego San Diego  
## 3418 2021-01-12 91906 San Diego San Diego  
## 3434 2021-01-12 92147 San Diego San Diego  
## 3445 2021-01-12 91950 San Diego San Diego  
## 3458 2021-01-12 91913 San Diego San Diego  
## 3466 2021-01-12 92058 San Diego San Diego  
## 3476 2021-01-12 92059 San Diego San Diego  
## 3489 2021-01-12 92061 San Diego San Diego  
## 3493 2021-01-12 92115 San Diego San Diego  
## 3499 2021-01-12 92014 San Diego San Diego  
## 3508 2021-01-12 92129 San Diego San Diego  
## 3522 2021-01-12 92124 San Diego San Diego  
## 3524 2021-01-12 92064 San Diego San Diego  
## 3530 2021-01-19 92040 San Diego San Diego  
## 3532 2021-01-19 92037 San Diego San Diego  
## 3542 2021-01-19 92054 San Diego San Diego  
## 3543 2021-01-19 92004 San Diego San Diego  
## 3559 2021-01-19 92007 San Diego San Diego  
## 3577 2021-01-19 92029 San Diego San Diego  
## 3586 2021-01-19 92108 San Diego San Diego  
## 3599 2021-01-19 92020 San Diego San Diego  
## 3624 2021-01-19 92025 San Diego San Diego  
## 3636 2021-01-19 92008 San Diego San Diego  
## 3639 2021-01-19 92036 San Diego San Diego  
## 3653 2021-01-19 92027 San Diego San Diego  
## 3696 2021-01-19 92003 San Diego San Diego  
## 3721 2021-01-19 92127 San Diego San Diego  
## 3722 2021-01-19 92129 San Diego San Diego  
## 3745 2021-01-19 92024 San Diego San Diego  
## 3746 2021-01-19 92028 San Diego San Diego  
## 3762 2021-01-19 92071 San Diego San Diego  
## 3763 2021-01-19 92021 San Diego San Diego  
## 3766 2021-01-19 92109 San Diego San Diego  
## 3775 2021-01-19 92105 San Diego San Diego  
## 3785 2021-01-19 92059 San Diego San Diego  
## 3786 2021-01-19 92101 San Diego San Diego  
## 3807 2021-01-19 92107 San Diego San Diego  
## 3808 2021-01-19 91915 San Diego San Diego  
## 3810 2021-01-19 92065 San Diego San Diego  
## 3812 2021-01-19 92128 San Diego San Diego  
## 3829 2021-01-19 92106 San Diego San Diego  
## 3853 2021-01-19 92121 San Diego San Diego  
## 3859 2021-01-19 92070 San Diego San Diego  
## 3889 2021-01-19 92110 San Diego San Diego  
## 3893 2021-01-19 92111 San Diego San Diego  
## 3895 2021-01-19 92119 San Diego San Diego  
## 3921 2021-01-19 91911 San Diego San Diego  
## 3922 2021-01-19 91980 San Diego San Diego  
## 3942 2021-01-19 92011 San Diego San Diego  
## 3943 2021-01-19 92135 San Diego San Diego  
## 3944 2021-01-19 92140 San Diego San Diego  
## 3945 2021-01-19 92123 San Diego San Diego  
## 3950 2021-01-19 92019 San Diego San Diego  
## 3952 2021-01-19 92132 San Diego San Diego  
## 4011 2021-01-19 91941 San Diego San Diego  
## 4026 2021-01-19 91963 San Diego San Diego  
## 4049 2021-01-19 92147 San Diego San Diego  
## 4051 2021-01-19 92067 San Diego San Diego  
## 4062 2021-01-19 91901 San Diego San Diego  
## 4086 2021-01-19 92061 San Diego San Diego  
## 4106 2021-01-19 92009 San Diego San Diego  
## 4107 2021-01-19 92014 San Diego San Diego  
## 4114 2021-01-19 92082 San Diego San Diego  
## 4130 2021-01-19 92055 San Diego San Diego  
## 4131 2021-01-19 92081 San Diego San Diego  
## 4132 2021-01-19 92139 San Diego San Diego  
## 4133 2021-01-19 92173 San Diego San Diego  
## 4135 2021-01-19 92010 San Diego San Diego  
## 4137 2021-01-19 92058 San Diego San Diego  
## 4147 2021-01-19 92078 San Diego San Diego  
## 4152 2021-01-19 92117 San Diego San Diego  
## 4164 2021-01-19 92155 San Diego San Diego  
## 4176 2021-01-19 92134 San Diego San Diego  
## 4185 2021-01-19 92145 San Diego San Diego  
## 4186 2021-01-19 91902 San Diego San Diego  
## 4261 2021-01-19 92056 San Diego San Diego  
## 4332 2021-01-19 91977 San Diego San Diego  
## 4334 2021-01-19 92118 San Diego San Diego  
## 4343 2021-01-19 92066 San Diego San Diego  
## 4344 2021-01-19 92116 San Diego San Diego  
## 4361 2021-01-19 92075 San Diego San Diego  
## 4362 2021-01-19 92083 San Diego San Diego  
## 4363 2021-01-19 92104 San Diego San Diego  
## 4387 2021-01-19 92113 San Diego San Diego  
## 4395 2021-01-19 92091 San Diego San Diego  
## 4396 2021-01-19 92084 San Diego San Diego  
## 4450 2021-01-19 92103 San Diego San Diego  
## 4451 2021-01-19 92060 San Diego San Diego  
## 4744 2021-01-19 91962 San Diego San Diego  
## 4746 2021-01-19 91914 San Diego San Diego  
## 4747 2021-01-19 91932 San Diego San Diego  
## 4751 2021-01-19 91905 San Diego San Diego  
## 4767 2021-01-19 91906 San Diego San Diego  
## 4768 2021-01-19 91913 San Diego San Diego  
## 4791 2021-01-19 92115 San Diego San Diego  
## 4801 2021-01-19 92114 San Diego San Diego  
## 4802 2021-01-19 92154 San Diego San Diego  
## 4803 2021-01-19 91916 San Diego San Diego  
## 4811 2021-01-19 92124 San Diego San Diego  
## 4817 2021-01-19 92102 San Diego San Diego  
## 4823 2021-01-19 92026 San Diego San Diego  
## 4837 2021-01-19 92131 San Diego San Diego  
## 4844 2021-01-19 92057 San Diego San Diego  
## 4852 2021-01-19 91948 San Diego San Diego  
## 4855 2021-01-19 91934 San Diego San Diego  
## 4856 2021-01-19 91935 San Diego San Diego  
## 4857 2021-01-19 91910 San Diego San Diego  
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## 4396 2 Healthy Places Index Score  
## 4450 4 Healthy Places Index Score  
## 4451 3 CDPH-Derived ZCTA Score  
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## 16443 3 CDPH-Derived ZCTA Score  
## 16450 1 CDPH-Derived ZCTA Score  
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## 16475 2 Healthy Places Index Score  
## 16476 3 Healthy Places Index Score  
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## 16508 NA No VEM Assigned  
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## 16515 NA No VEM Assigned  
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## 16642 NA No VEM Assigned  
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## 16754 NA No VEM Assigned  
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## 17396 2 Healthy Places Index Score  
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## 18056 NA No VEM Assigned  
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## 18129 3 Healthy Places Index Score  
## 18141 2 Healthy Places Index Score  
## 18143 3 Healthy Places Index Score  
## 18144 1 Healthy Places Index Score  
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## 28217 2 CDPH-Derived ZCTA Score  
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## 28252 2 Healthy Places Index Score  
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## 28345 4 Healthy Places Index Score  
## 28367 NA No VEM Assigned  
## 28375 4 Healthy Places Index Score  
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## 28487 2 Healthy Places Index Score  
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## 28538 NA No VEM Assigned  
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## 28599 3 Healthy Places Index Score  
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## 28634 3 Healthy Places Index Score  
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## 28707 NA No VEM Assigned  
## 28710 NA No VEM Assigned  
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## 29901 3 Healthy Places Index Score  
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## 30008 3 Healthy Places Index Score  
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## 30036 1 CDPH-Derived ZCTA Score  
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## 30043 4 CDPH-Derived ZCTA Score  
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## 30052 4 Healthy Places Index Score  
## 30053 3 CDPH-Derived ZCTA Score  
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## 35633 NA No VEM Assigned  
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## 39593 3 Healthy Places Index Score  
## 39789 3 Healthy Places Index Score  
## 39818 4 Healthy Places Index Score  
## 39915 2 Healthy Places Index Score  
## 39920 1 CDPH-Derived ZCTA Score  
## 39972 2 Healthy Places Index Score  
## 40048 2 Healthy Places Index Score  
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## 40060 3 Healthy Places Index Score  
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## 40167 2 Healthy Places Index Score  
## 40168 NA No VEM Assigned  
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## 40217 NA No VEM Assigned  
## 40218 2 Healthy Places Index Score  
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## 40543 4 CDPH-Derived ZCTA Score  
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## 40718 2 Healthy Places Index Score  
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## 41275 4 Healthy Places Index Score  
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## 41305 2 CDPH-Derived ZCTA Score  
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## 41872 NA No VEM Assigned  
## 41875 NA No VEM Assigned  
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## 41938 2 Healthy Places Index Score  
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## 42218 1 Healthy Places Index Score  
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## 42521 NA No VEM Assigned  
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## 42680 NA No VEM Assigned  
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## 44833 NA No VEM Assigned  
## 44834 NA No VEM Assigned  
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## 46290 NA No VEM Assigned  
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## 51693 2 Healthy Places Index Score  
## 51694 4 Healthy Places Index Score  
## 51703 2 Healthy Places Index Score  
## 51704 3 Healthy Places Index Score  
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## 51739 NA No VEM Assigned  
## 51755 3 Healthy Places Index Score  
## 51763 3 CDPH-Derived ZCTA Score  
## 51764 NA No VEM Assigned  
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## 51792 3 Healthy Places Index Score  
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## 51840 2 CDPH-Derived ZCTA Score  
## 51857 3 Healthy Places Index Score  
## 51867 NA No VEM Assigned  
## 51902 3 Healthy Places Index Score  
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## 51945 NA No VEM Assigned  
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## 53284 NA No VEM Assigned  
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## 53499 NA No VEM Assigned  
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## 58856 1 Healthy Places Index Score  
## 58869 4 Healthy Places Index Score  
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## 58871 NA No VEM Assigned  
## 58880 NA No VEM Assigned  
## 58895 NA No VEM Assigned  
## 58896 NA No VEM Assigned  
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## 58903 NA No VEM Assigned  
## 58920 NA No VEM Assigned  
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## 97008 1 Healthy Places Index Score  
## 97018 1 CDPH-Derived ZCTA Score  
## 97095 3 Healthy Places Index Score  
## 97096 1 Healthy Places Index Score  
## 97098 2 Healthy Places Index Score  
## 97103 3 Healthy Places Index Score  
## 97104 3 Healthy Places Index Score  
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## 97112 4 Healthy Places Index Score  
## 97114 2 Healthy Places Index Score  
## 97115 2 Healthy Places Index Score  
## 97116 3 Healthy Places Index Score  
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## 97124 3 Healthy Places Index Score  
## 97126 4 Healthy Places Index Score  
## 97128 2 Healthy Places Index Score  
## 97161 2 CDPH-Derived ZCTA Score  
## 97162 4 Healthy Places Index Score  
## 97218 2 Healthy Places Index Score  
## 97219 3 Healthy Places Index Score  
## 97306 4 Healthy Places Index Score  
## 97353 4 Healthy Places Index Score  
## 97370 1 Healthy Places Index Score  
## 97376 2 Healthy Places Index Score  
## 97466 2 Healthy Places Index Score  
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## 97468 4 Healthy Places Index Score  
## 97469 2 Healthy Places Index Score  
## 97476 3 Healthy Places Index Score  
## 97477 4 Healthy Places Index Score  
## 97481 1 CDPH-Derived ZCTA Score  
## 97491 3 CDPH-Derived ZCTA Score  
## 97497 4 Healthy Places Index Score  
## 97508 2 Healthy Places Index Score  
## 97513 3 Healthy Places Index Score  
## 97525 2 Healthy Places Index Score  
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## 97559 4 Healthy Places Index Score  
## 97592 2 Healthy Places Index Score  
## 97621 2 Healthy Places Index Score  
## 97622 3 Healthy Places Index Score  
## 97638 2 CDPH-Derived ZCTA Score  
## 97646 3 CDPH-Derived ZCTA Score  
## 97647 2 Healthy Places Index Score  
## 97648 NA No VEM Assigned  
## 97657 2 Healthy Places Index Score  
## 97664 3 Healthy Places Index Score  
## 97755 NA No VEM Assigned  
## 97762 NA No VEM Assigned  
## 97763 NA No VEM Assigned  
## 97766 4 Healthy Places Index Score  
## 97797 3 Healthy Places Index Score  
## 97806 4 Healthy Places Index Score  
## 97807 3 Healthy Places Index Score  
## 97809 2 Healthy Places Index Score  
## 97827 3 Healthy Places Index Score  
## 97828 2 Healthy Places Index Score  
## 97829 1 Healthy Places Index Score  
## 97835 1 Healthy Places Index Score  
## 97836 3 Healthy Places Index Score  
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## 97842 NA No VEM Assigned  
## 97843 1 Healthy Places Index Score  
## 97854 4 Healthy Places Index Score  
## 97862 4 Healthy Places Index Score  
## 97863 3 Healthy Places Index Score  
## 97873 3 Healthy Places Index Score  
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## 97886 3 Healthy Places Index Score  
## 97888 NA No VEM Assigned  
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## 98090 2 Healthy Places Index Score  
## 98112 1 CDPH-Derived ZCTA Score  
## 98113 4 Healthy Places Index Score  
## 98114 3 Healthy Places Index Score  
## 98120 3 CDPH-Derived ZCTA Score  
## 98173 4 CDPH-Derived ZCTA Score  
## 98174 2 Healthy Places Index Score  
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## 98556 4 CDPH-Derived ZCTA Score  
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## 98975 2 Healthy Places Index Score  
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## 99057 1 Healthy Places Index Score  
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## 99065 3 Healthy Places Index Score  
## 99066 2 Healthy Places Index Score  
## 99081 3 Healthy Places Index Score  
## 99082 NA No VEM Assigned  
## 99084 2 Healthy Places Index Score  
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## 99088 NA No VEM Assigned  
## 99090 NA No VEM Assigned  
## 99091 NA No VEM Assigned  
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## 99096 3 Healthy Places Index Score  
## 99107 4 Healthy Places Index Score  
## 99111 1 Healthy Places Index Score  
## 99117 2 Healthy Places Index Score  
## 99122 2 Healthy Places Index Score  
## 99124 4 CDPH-Derived ZCTA Score  
## 99132 1 Healthy Places Index Score  
## 99134 1 Healthy Places Index Score  
## 99135 1 Healthy Places Index Score  
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## 99158 4 Healthy Places Index Score  
## 99161 3 Healthy Places Index Score  
## 99172 3 Healthy Places Index Score  
## 99173 2 Healthy Places Index Score  
## 99175 NA No VEM Assigned  
## 99184 2 Healthy Places Index Score  
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## 99257 1 CDPH-Derived ZCTA Score  
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## 99388 3 Healthy Places Index Score  
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## 99390 1 CDPH-Derived ZCTA Score  
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## 99435 2 Healthy Places Index Score  
## 99445 2 CDPH-Derived ZCTA Score  
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## 99459 3 Healthy Places Index Score  
## 99461 NA No VEM Assigned  
## 99512 2 Healthy Places Index Score  
## 99516 NA No VEM Assigned  
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## 99577 4 Healthy Places Index Score  
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## 99675 2 CDPH-Derived ZCTA Score  
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## 100563 3 CDPH-Derived ZCTA Score  
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## 100649 2 Healthy Places Index Score  
## 100667 1 CDPH-Derived ZCTA Score  
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## 101615 3 Healthy Places Index Score  
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## 101637 4 Healthy Places Index Score  
## 101643 NA No VEM Assigned  
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## 101657 2 Healthy Places Index Score  
## 101707 1 Healthy Places Index Score  
## 101718 4 Healthy Places Index Score  
## 101723 2 Healthy Places Index Score  
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## 101727 NA No VEM Assigned  
## 101728 NA No VEM Assigned  
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## 101912 2 Healthy Places Index Score  
## 101923 NA No VEM Assigned  
## 101936 4 Healthy Places Index Score  
## 101959 4 CDPH-Derived ZCTA Score  
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## 101967 1 Healthy Places Index Score  
## 101971 2 Healthy Places Index Score  
## 101975 2 Healthy Places Index Score  
## 101989 2 Healthy Places Index Score  
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## 102193 NA No VEM Assigned  
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## 102228 4 Healthy Places Index Score  
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## 102381 2 Healthy Places Index Score  
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## 102463 3 Healthy Places Index Score  
## 102467 2 Healthy Places Index Score  
## 102478 1 Healthy Places Index Score  
## 102479 2 Healthy Places Index Score  
## 102481 3 Healthy Places Index Score  
## 102483 NA No VEM Assigned  
## 102484 3 CDPH-Derived ZCTA Score  
## 102487 3 Healthy Places Index Score  
## 102488 1 Healthy Places Index Score  
## 102494 4 Healthy Places Index Score  
## 102496 2 Healthy Places Index Score  
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## 102540 NA No VEM Assigned  
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## 102565 2 Healthy Places Index Score  
## 102573 4 CDPH-Derived ZCTA Score  
## 102574 3 CDPH-Derived ZCTA Score  
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## 102600 3 Healthy Places Index Score  
## 102608 4 Healthy Places Index Score  
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## 102652 NA No VEM Assigned  
## 102681 2 Healthy Places Index Score  
## 102711 1 CDPH-Derived ZCTA Score  
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## 103099 1 CDPH-Derived ZCTA Score  
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## 103302 2 Healthy Places Index Score  
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## 103315 3 Healthy Places Index Score  
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## 103941 3 Healthy Places Index Score  
## 103973 2 CDPH-Derived ZCTA Score  
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## 104170 1 CDPH-Derived ZCTA Score  
## 104173 3 CDPH-Derived ZCTA Score  
## 104190 1 CDPH-Derived ZCTA Score  
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## 105078 NA No VEM Assigned  
## 105080 NA No VEM Assigned  
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## 105138 2 CDPH-Derived ZCTA Score  
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## 105221 4 Healthy Places Index Score  
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## 105965 NA No VEM Assigned  
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## 106212 NA No VEM Assigned  
## 106228 NA No VEM Assigned  
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## age12\_plus\_population age5\_plus\_population persons\_fully\_vaccinated  
## 2 46300.3 53102 61  
## 13 22820.5 25486 NA  
## 33 826.1 939 NA  
## 54 32146.4 33213 45  
## 57 11136.3 12177 NA  
## 58 42677.7 47784 12  
## 83 30255.7 31673 NA  
## 91 1460.5 1492 NA  
## 92 41447.3 46850 24  
## 109 42177.1 46855 40  
## 117 1238.3 1303 NA  
## 119 19835.0 21470 NA  
## 120 71820.2 77775 31  
## 125 24104.7 25958 NA  
## 134 20384.0 21182 NA  
## 135 17253.3 19025 NA  
## 137 33675.6 36144 35  
## 139 61097.9 68711 NA  
## 145 47422.5 52758 19  
## 148 47799.7 53883 NA  
## 151 49284.5 54991 13  
## 152 32246.5 36283 NA  
## 153 2151.8 2186 NA  
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## 163 39588.5 40077 42  
## 164 41252.1 44782 18  
## 165 4475.4 4803 NA  
## 171 21444.8 23472 NA  
## 173 4134.7 4387 NA  
## 177 40343.9 42839 44  
## 179 46449.1 51493 44  
## 180 1200.0 1371 NA  
## 200 475.7 586 NA  
## 201 589.5 685 NA  
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# Using dplyr the code would look like this  
  
library(dplyr)

##   
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':  
##   
## filter, lag

## The following objects are masked from 'package:base':  
##   
## intersect, setdiff, setequal, union

sd <- filter(vax, county == "San Diego")  
nrow(sd)

## [1] 6527

# subsetting across multiple criteria - for example all San Diego county areas with a population of over 10,000  
  
sd.10 <- filter(vax, county == "San Diego" &  
 age5\_plus\_population > 10000)

Q11. How many distinct zip codes are listed for San Diego County?

length(unique(vax$zip\_code\_tabulation\_area))

## [1] 1764

Q12. What San Diego County Zip code area has the largest 12 + Population in this dataset?

largest\_plus12\_population <- which.max(vax$age12\_plus\_population)  
vax$zip\_code\_tabulation\_area[largest\_plus12\_population]

## [1] 91331

Q13. What is the overall average “Percent of Population Fully Vaccinated” value for all San Diego “County” as of “2022-02-22”?

sd\_20220222 <- filter(vax, county == "San Diego" & as\_of\_date == "2022-02-22")  
round(mean(na.omit(sd\_20220222$percent\_of\_population\_fully\_vaccinated))\*100,2)

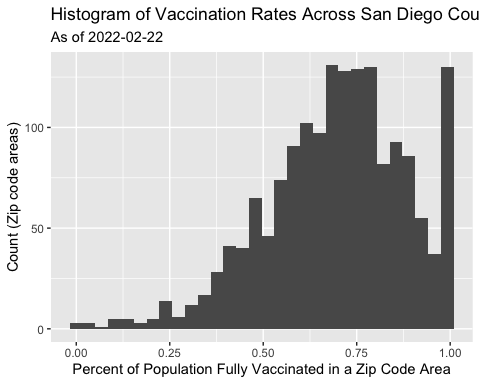
## [1] 70.42

Q14. Using either ggplot or base R graphics make a summary figure that shows the distribution of Percent of Population Fully Vaccinated values as of “2022-02-22”?

pfv\_20220222 <- filter(vax, as\_of\_date == "2022-02-22")  
library(ggplot2)  
ggplot(pfv\_20220222, aes(percent\_of\_population\_fully\_vaccinated)) +  
 geom\_histogram() +  
 labs(x="Percent of Population Fully Vaccinated in a Zip Code Area", y="Count (Zip code areas)", title = "Histogram of Vaccination Rates Across San Diego County", subtitle = "As of 2022-02-22")

## `stat\_bin()` using `bins = 30`. Pick better value with `binwidth`.

## Warning: Removed 105 rows containing non-finite values (stat\_bin).



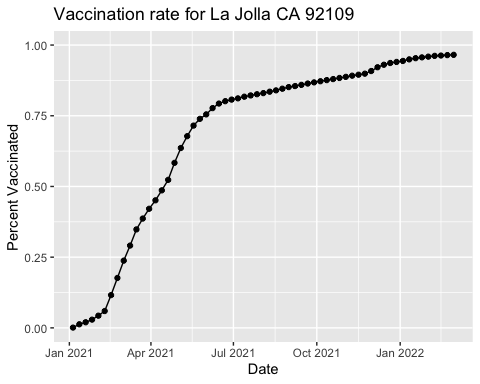
## Focus on UCSD/La Jolla

#UC San Diego resides in the 92037 ZIP code area and is listed with an age 5+ population size of 36,144  
  
ucsd <- filter(sd, zip\_code\_tabulation\_area=="92037")  
ucsd[1,]$age5\_plus\_population

## [1] 36144

Q15. Using ggplot make a graph of the vaccination rate time course for the 92037 ZIP code area:

ggplot(ucsd) +  
 aes(as\_of\_date, percent\_of\_population\_fully\_vaccinated) +  
 geom\_point() +  
 geom\_line(group=1) +  
 ylim(c(0,1)) +  
 labs(x="Date", y="Percent Vaccinated", title = "Vaccination rate for La Jolla CA 92109")

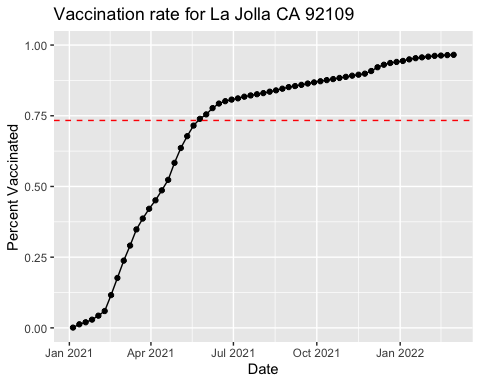


## Comparing to similar sized areas

# Subset to all CA areas with a population as large as 92037  
vax.36 <- filter(vax, age5\_plus\_population > 36144 &  
 as\_of\_date == "2022-02-22")  
  
#head(vax.36)

Q16. Calculate the mean “Percent of Population Fully Vaccinated” for ZIP code areas with a population as large as 92037 (La Jolla) as\_of\_date “2022-02-22”. Add this as a straight horizontal line to your plot from above with the geom\_hline() function?

vax.mean.36 <- mean(na.omit(vax.36$percent\_of\_population\_fully\_vaccinated))  
  
ggplot(ucsd) +  
 aes(as\_of\_date, percent\_of\_population\_fully\_vaccinated) +  
 geom\_point() +  
 geom\_line(group=1) +  
 ylim(c(0,1)) +  
 labs(x="Date", y="Percent Vaccinated", title = "Vaccination rate for La Jolla CA 92109") +  
 geom\_hline(aes(yintercept=vax.mean.36), linetype = "dashed", color = "red")



Q17. What is the 6 number summary (Min, 1st Qu., Median, Mean, 3rd Qu., and Max) of the “Percent of Population Fully Vaccinated” values for ZIP code areas with a population as large as 92037 (La Jolla) as\_of\_date “2022-02-22”?

summary(vax.36)

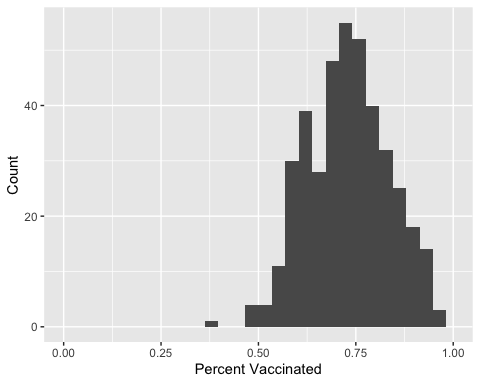
## as\_of\_date zip\_code\_tabulation\_area local\_health\_jurisdiction  
## Min. :2022-02-22 Min. :90001 Length:411   
## 1st Qu.:2022-02-22 1st Qu.:91762 Class :character   
## Median :2022-02-22 Median :92646 Mode :character   
## Mean :2022-02-22 Mean :92862   
## 3rd Qu.:2022-02-22 3rd Qu.:94517   
## Max. :2022-02-22 Max. :96003   
## county vaccine\_equity\_metric\_quartile vem\_source   
## Length:411 Min. :1.000 Length:411   
## Class :character 1st Qu.:1.000 Class :character   
## Mode :character Median :2.000 Mode :character   
## Mean :2.353   
## 3rd Qu.:3.000   
## Max. :4.000   
## age12\_plus\_population age5\_plus\_population persons\_fully\_vaccinated  
## Min. :31651 Min. : 36181 Min. :15406   
## 1st Qu.:37694 1st Qu.: 41612 1st Qu.:30551   
## Median :43985 Median : 48573 Median :35305   
## Mean :46847 Mean : 52012 Mean :38118   
## 3rd Qu.:53932 3rd Qu.: 59168 3rd Qu.:43420   
## Max. :88557 Max. :101902 Max. :77457   
## persons\_partially\_vaccinated percent\_of\_population\_fully\_vaccinated  
## Min. : 1714 Min. :0.3881   
## 1st Qu.: 2774 1st Qu.:0.6539   
## Median : 3600 Median :0.7333   
## Mean : 4480 Mean :0.7334   
## 3rd Qu.: 5064 3rd Qu.:0.8027   
## Max. :33548 Max. :1.0000   
## percent\_of\_population\_partially\_vaccinated  
## Min. :0.03933   
## 1st Qu.:0.05924   
## Median :0.06875   
## Mean :0.08614   
## 3rd Qu.:0.08706   
## Max. :0.90997   
## percent\_of\_population\_with\_1\_plus\_dose booster\_recip\_count redacted   
## Min. :0.4980 Min. : 5011 Length:411   
## 1st Qu.:0.7373 1st Qu.:13356 Class :character   
## Median :0.8154 Median :17437 Mode :character   
## Mean :0.8121 Mean :18545   
## 3rd Qu.:0.8866 3rd Qu.:22749   
## Max. :1.0000 Max. :50031

Q18. Using ggplot generate a histogram of this data

ggplot(vax.36) +  
 aes(percent\_of\_population\_fully\_vaccinated) +  
 geom\_histogram() +  
 xlim(c(0,1)) +  
 labs(x="Percent Vaccinated", y="Count")

## `stat\_bin()` using `bins = 30`. Pick better value with `binwidth`.

## Warning: Removed 2 rows containing missing values (geom\_bar).



Q19. Is the 92109 and 92040 ZIP code areas above or below the average value you calculated for all these above?

zip\_92040 <- vax %>% filter(as\_of\_date == "2022-02-22") %>%   
 filter(zip\_code\_tabulation\_area=="92040") %>%  
 select(percent\_of\_population\_fully\_vaccinated)  
  
zip\_92040 < vax.mean.36

## percent\_of\_population\_fully\_vaccinated  
## [1,] TRUE

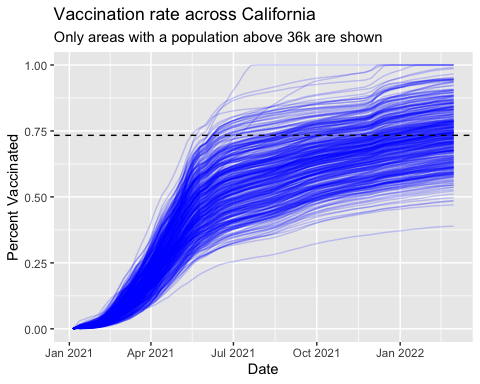
zip\_92109 <- vax %>% filter(as\_of\_date == "2022-02-22") %>%   
 filter(zip\_code\_tabulation\_area=="92109") %>%  
 select(percent\_of\_population\_fully\_vaccinated)  
  
zip\_92109 < vax.mean.36

## percent\_of\_population\_fully\_vaccinated  
## [1,] TRUE

Q20. Finally make a time course plot of vaccination progress for all areas in the full dataset with a age5\_plus\_population > 36144

vax.36.all <- filter(vax, age5\_plus\_population > 36144)  
  
  
ggplot(vax.36.all) +  
 aes(as\_of\_date,  
 percent\_of\_population\_fully\_vaccinated,   
 group=zip\_code\_tabulation\_area) +  
 geom\_line(alpha=0.2, color="blue") +  
 ylim(c(0,1)) +  
 labs(x= "Date", y= "Percent Vaccinated",  
 title= "Vaccination rate across California",  
 subtitle= "Only areas with a population above 36k are shown") +  
 geom\_hline(yintercept = vax.mean.36, linetype= "dashed")

## Warning: Removed 311 row(s) containing missing values (geom\_path).



sessionInfo()

## R version 4.1.2 (2021-11-01)  
## Platform: x86\_64-apple-darwin17.0 (64-bit)  
## Running under: macOS Big Sur 10.16  
##   
## Matrix products: default  
## BLAS: /Library/Frameworks/R.framework/Versions/4.1/Resources/lib/libRblas.0.dylib  
## LAPACK: /Library/Frameworks/R.framework/Versions/4.1/Resources/lib/libRlapack.dylib  
##   
## locale:  
## [1] en\_US.UTF-8/en\_US.UTF-8/en\_US.UTF-8/C/en\_US.UTF-8/en\_US.UTF-8  
##   
## attached base packages:  
## [1] stats graphics grDevices utils datasets methods base   
##   
## other attached packages:  
## [1] ggplot2\_3.3.5 dplyr\_1.0.8 zipcodeR\_0.3.3 lubridate\_1.8.0  
## [5] skimr\_2.1.3   
##   
## loaded via a namespace (and not attached):  
## [1] httr\_1.4.2 tidyr\_1.2.0 bit64\_4.0.5 jsonlite\_1.8.0   
## [5] sp\_1.4-6 highr\_0.9 blob\_1.2.2 yaml\_2.3.5   
## [9] tidycensus\_1.1 pillar\_1.7.0 RSQLite\_2.2.10 lattice\_0.20-45   
## [13] glue\_1.6.2 uuid\_1.0-3 digest\_0.6.29 rvest\_1.0.2   
## [17] colorspace\_2.0-3 htmltools\_0.5.2 pkgconfig\_2.0.3 raster\_3.5-15   
## [21] purrr\_0.3.4 scales\_1.1.1 terra\_1.5-21 tzdb\_0.2.0   
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## [29] generics\_0.1.2 ellipsis\_0.3.2 cachem\_1.0.6 withr\_2.4.3   
## [33] repr\_1.1.4 cli\_3.2.0 magrittr\_2.0.2 crayon\_1.5.0   
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## [53] units\_0.8-0 grid\_4.1.2 rstudioapi\_0.13 rappdirs\_0.3.3   
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## [61] codetools\_0.2-18 DBI\_1.1.2 curl\_4.3.2 R6\_2.5.1   
## [65] knitr\_1.37 rgdal\_1.5-28 fastmap\_1.1.0 bit\_4.0.4   
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## [73] Rcpp\_1.0.8 vctrs\_0.3.8 sf\_1.0-6 tidyselect\_1.1.2   
## [77] xfun\_0.29