Project 1

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Topic: COVID Data vs Age & Race



Introduction & Problem

- We are looking at the relationship between certain COVID data metrics and demographic metrics
- COVID
 - Vaccination Status
 - Confirmed Case Totals
 - Death Count Totals
- Demographic
 - Age
 - Race

Our Data Source

LA Times Archive of California Coronavirus Data

https://github.com/datadesk/california-coronavirus-data

- California Public Dept. of Health Covid-19 Cases by Age Group (cdph-age.csv)
- California Public Dept. of Health Covid-19 Cases by Race / Ethnicity (cdph-race-ethnicity.csv)
- California Public Dept. of Health Covid-19 Vaccinations by Age Group (cdph-vaccination-state-by-age.csv)
- California Public Dept. of Health Covid-19 Vaccinations by Race / Ethnicity (cdph-vaccination-state-by-race-ethnicity.csv)

Which age groups have the highest vaccination numbers in

California?

RQ1 Findings

What age groups have the highest vaccination numbers in California?

Bar Chart

- Shows that 18-49 is the largest age group
- 50-64 and 65+ were the same

Limitations

- Age groups
- Comparisons w/ US Census Data

RQ1EDA

What age groups have the highest vaccination numbers in California?

• Replaced certain values

- Vacc_age =
 vacc_age.replace(to_replace="17-Dec",value =
 "12-17")
- Vacc_age =
 vacc_age.replace(to_replace="11-May",value =
 "5-11")

Which races have the highest vaccination numbers in

California?

RQ 2 Findings

What races have the highest vaccination numbers in California?

Pie Chart

- Whites and Latinos had the highest percentage of fully vaccinated
- Formatting

Limitations

- Unknown?
- Comparisons w/ US Census Data
 - California's population makeup is 39% Latino, 36% White, 15% Asian and 6% Black
 - Latinos 28.6% vaccinated
 - Asians 18% vaccinated

Which races have the highest positive test rates and death counts?

RQ 3 EDA

Which races have the highest positive

test rates and death counts?

All Visuals (4)

- Replaced/combined cdph-other into other
- Coded to ignore any rows with specific age groups in data set
 - Only calculated the case total and death count total columns in rows with "all" as age group

Bar Charts

- Grouped by race
- Descending order of confirmed cases and death totals
- Capitalized race names for bar labels

Other Formatting

- Titles
- Labels
- Colors
- Font Size
- Figure Size
- Rotation

RQ 3 Findings

Which races have the highest positive

test rates and death counts?

- Latinos had the highest number of confirmed cases
 - 55% of total cases
- Blacks had the lowest number of cases
 - 4.6% of total cases
- Latinos also had the highest number of deaths
 - 46.5% of total deaths
- Blacks had the lowest number of deaths
 - 2.7% of total deaths

Which **ages** have the highest **positive test rates** and **death counts**?

RQ 4 EDA

Which ages have the highest positive test rates and death counts?

RQ 4 Findings

Which ages have the highest positive test rates and death counts?

Limitations & Challenges

1. When combining datasets, we have to take into account whether they're pulling from the original raw dataset with access to the same amount of data.

2. Our data only covers California, therefore, any assumptions or recommendations we make may not apply to other states or countries.

3. Due to time constraints, we did not use any datasets with current population counts, therefore we cannot make any per capita calculations.

