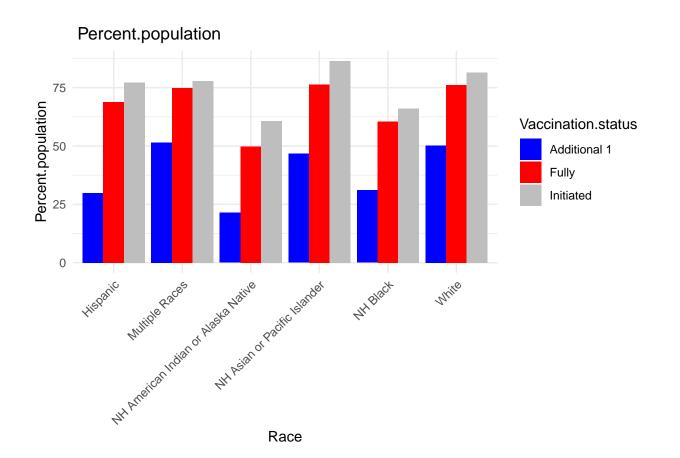
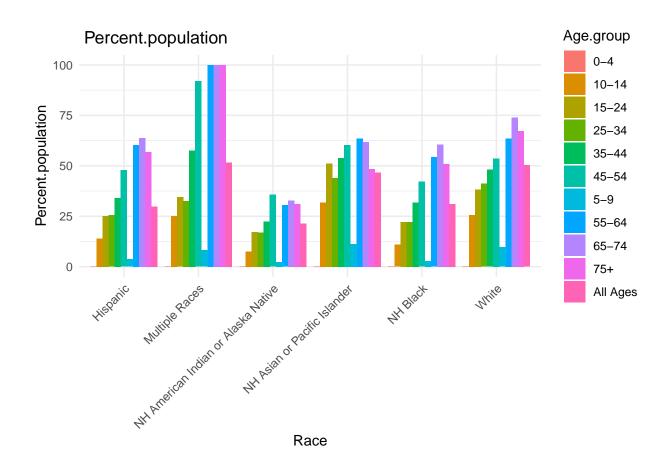
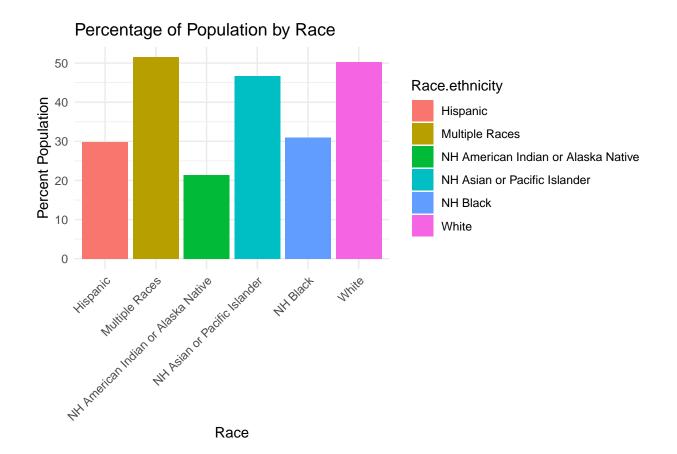
Dara Visulization_by_Race_Ethnicity_and_Age

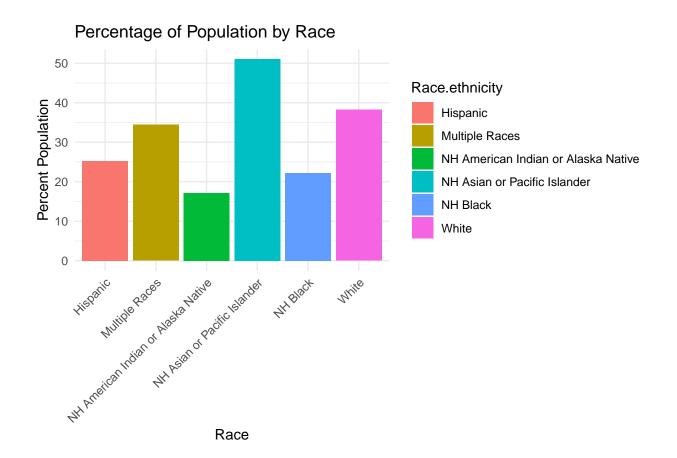
```
setwd("/Users/jiataizhang/Desktop")
vac_data <- read.csv("COVID-19_Vaccinations_by_Race_Ethnicity_and_Age_-_ARCHIVED.csv")
df <- na.omit(vac data)</pre>
head(df)
     Race.ethnicity Age.group Vaccination.status Count Population
## 1
           Hispanic
                          0 - 4
                                     Additional 1
                                                     12
                                                              52476
## 2
           Hispanic
                           0 - 4
                                            Fully 1879
                                                              52476
                           0-4
## 3
           Hispanic
                                        Initiated 3911
                                                              52476
## 4
           Hispanic
                                     Additional 1 7785
                                                              55874
                         10-14
## 5
           Hispanic
                        10-14
                                            Fully 33391
                                                              55874
                                        Initiated 37542
## 6
           Hispanic
                        10-14
                                                              55874
##
     Percent.population Date.updated
## 1
                   0.02
                          02/08/2023
## 2
                   3.58
                          02/08/2023
## 3
                   7.45
                          02/08/2023
## 4
                  13.93
                          02/08/2023
## 5
                  59.76
                          02/08/2023
## 6
                  67.19
                          02/08/2023
library(ggplot2)
data2 <- df[df$Age.group == "All Ages" &df$Date.updated == "02/08/2023", ]</pre>
ggplot(data = data2, aes(x = Race.ethnicity, y = Percent.population, fill = Vaccination.status)) +
  geom_col(position = "dodge") +
  labs(title = " Percent.population",
       x = "Race",
       y = "Percent.population",
       fill = "Vaccination.status") +
  scale_fill_manual(values = c("Additional 1" = "blue", "Initiated" = "gray", "Fully"="red")) +
  theme_minimal() +
  theme(axis.text.x = element_text(angle = 45, hjust = 1))
```





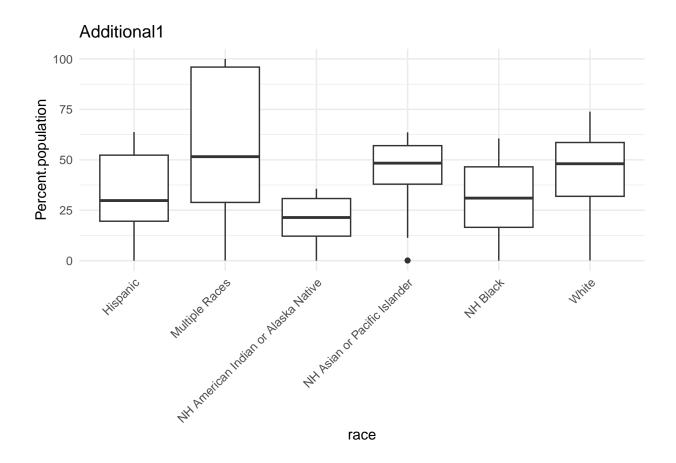


```
additional1_data_age_15_24 <- df[df$Vaccination.status == "Additional 1" & df$Age.group == "15-24" &df$Age.group ==
```



```
cross_table <- table(additional1_data_age$Race.ethnicity, additional1_data_age$Percent.population)
library(ggplot2)

ggplot(additional1_data, aes(x = Race.ethnicity, y = Percent.population)) +
    geom_boxplot() +
    labs(title = "Additional1", x = "race", y = "Percent.population") +
    theme_minimal() +
    theme(axis.text.x = element_text(angle = 45, hjust = 1))</pre>
```



```
cross_table <- table(additional1_data_age_15_24$Race.ethnicity, additional1_data_age_15_24$Percent.popu
library(ggplot2)

ggplot(additional1_data, aes(x = Race.ethnicity, y = Percent.population)) +
    geom_boxplot() +
    labs(title = "Additional1", x = "race", y = "Percent.population") +
    theme_minimal() +
    theme(axis.text.x = element_text(angle = 45, hjust = 1))</pre>
```

