Shonil Dabreo, s3835204

Rpubs link:-

https://rpubs.com/NightxWalker/763955

Code:-

```
library(dplyr)
library(tidyr)
library(plotly)
library(ggplot2)
df <-
read.csv("https://raw.githubusercontent.com/RamiKrispin/coronavirus/master/csv/coronavirus.cs
v", stringsAsFactors= FALSE) %>% mutate(country = ifelse(country == "United Arab
Emirates", "UAE", country),
         country = ifelse(country == "Mainland China", "China", country),
         country = ifelse(country == "North Macedonia", "N.Macedonia", country),
         country = trimws(country),
         country = factor(country, levels = unique(country)))
df tree <- df %>%
 group by(country, type) %>%
 summarise(total = sum(cases)) %>%
 mutate(type = ifelse(type == "confirmed", "Confirmed", type),
         type = ifelse(type == "recovered", "Recovered", type),
         type = ifelse(type == "death", "Death", type)) %>%
 pivot wider(names from = type, values from = total) %>%
 mutate(Active = Confirmed - Death - Recovered) %>%
 pivot longer(cols = -country, names to = "type", values to = "total")
### Cases Distribution by Type
plot ly(
 data = df tree %>% dplyr::filter(type == "Confirmed"), type= "treemap", values = ~total,
labels = ~country, parents = ~type, domain = list(column=0), name = "Confirmed",
textinfo="label+value+percent parent")
### Reconstruction
tree df <- df tree %>% filter(type == "Confirmed") %>% arrange(-total) %>%
ungroup(country) \%>% top n(20, total)
ggplot(data = tree df, aes(x = reorder(country, total), y = total)) +
 geom bar(stat="identity", fill = "#FF6666") +
 geom text(aes(label = total), hjust = -0.1) +
 coord flip() +
 ggtitle("Confirmed covid cases of the countries in World")
```