**Task 3. Covid Vaccine Analysis**

**Code:**

library(dplyr)

library(ggplot2)

file<-read.csv("country\_vaccinations.csv")

head(file)

countrytable<-as.data.frame(table(file$country))

countrytable

subset(countrytable, countrytable$Var1!= "England" & countrytable$Var1!= "Scotland" & countrytable$Var1!= "Wales" & countrytable$Var1!= "Northern Ireland" )

vaccines<-as.data.frame(table(file$vaccines))

vaccinebycountry<-as.data.frame(table(file$vaccines,file$country))

colnames(vaccinebycountry)<-c('Vaccine','region','Frequency')

WorldData <- map\_data('world') %>% filter(region != "Antarctica") %>% fortify

p <- ggplot() +

geom\_map(data = WorldData, map = WorldData,

aes(x = long, y = lat, group = group, map\_id=region),

fill = "white", colour = "blue", size=0.5) +

geom\_map(data = vaccinebycountry, map=WorldData,

aes(map\_id=region),

colour="green", size=0.5) +

coord\_map("rectangular", lat0=0, xlim=c(-180,180), ylim=c(-60, 90)) +

scale\_fill\_continuous( ) +

scale\_y\_continuous() +

scale\_x\_continuous() +

labs(fill="Vaccines", title="Covid Vaccine Distribution", x="Longitude", y="Latitude") +

theme\_bw()

p

**ScreenShot:**

