**Task 3. Covid Vaccine Analysis**

library(dplyr)

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))

vaccinebycountry %>% rename( vaccine = Var1, country = Var2)

vaccinebycountry<-vaccinebycountry %>% rename( Vaccine = Vaccine, region = Country)

map\_data<- left\_join(map\_data,vaccinebycountry,by="region")

mapdata1<-map\_data%>% filter(!is.na(map\_data$Freq))

map1<-ggplot(mapdata1,aes(x=long,y=lat,group=group))+geom\_polygon(aes(fill=mapdata1$Freq),color="black")

map1

