20BDS0146

VENNELA G

DATA VISUALIZATION & PRESENTATION LAB

LAB SLOT: L31+L32

LAB ASSIGNMENT 3

DATE: 06-03-2023

TITLE OF EXPERIMENT: Color map visualization

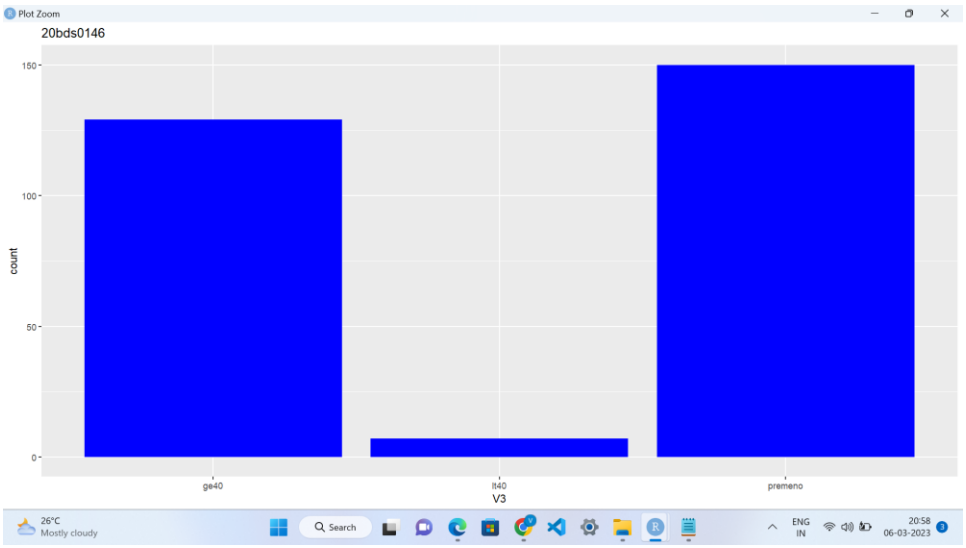
AIM: Draw the various plot for the given dataset. Use various color set options like Categorical , Sequential, Diverging, bivariate.

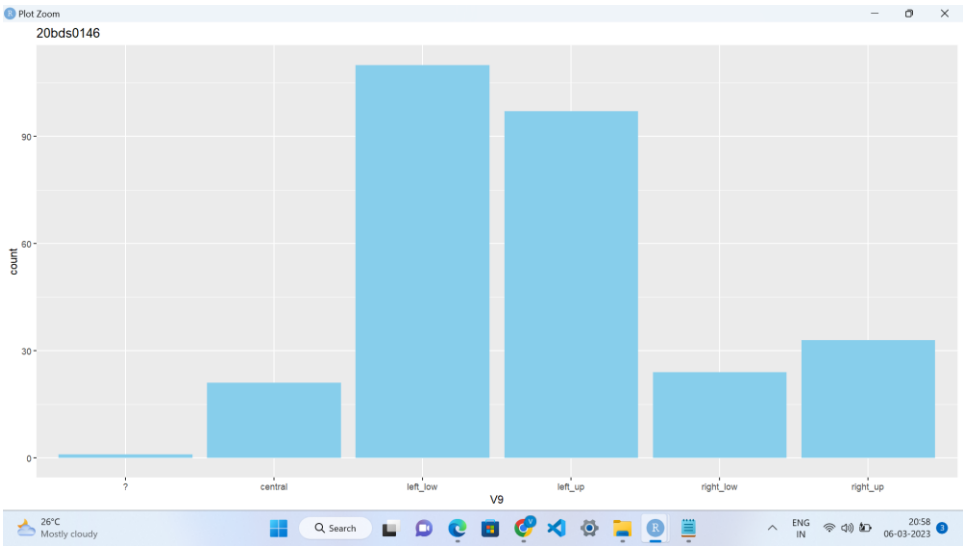
CODE:

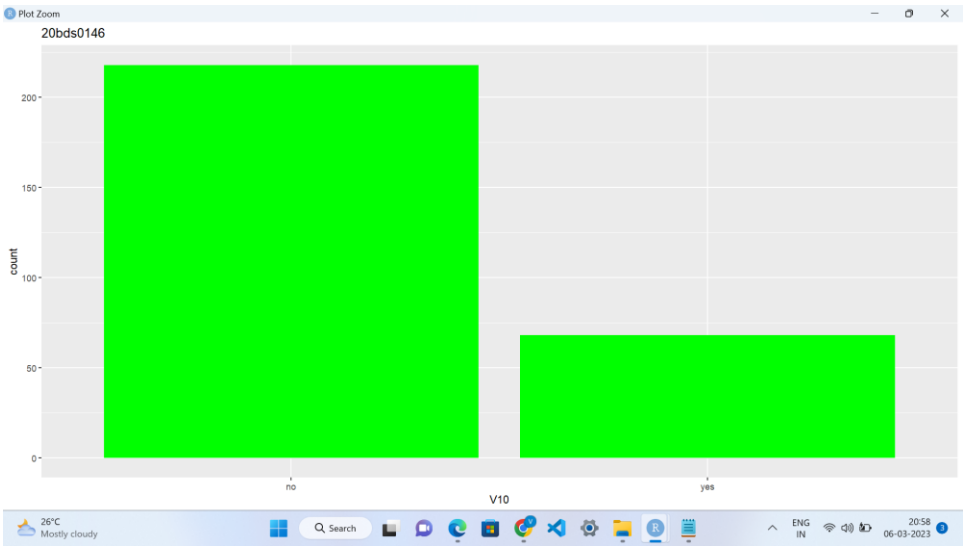
```
View(breast.cancer)

View(mtcars)

install.packages("ggplot2")

library(ggplot2)

library(dplyr)

install.packages("plotrix")

library(plotrix)

df<-breast.cancer

ggplot(df,aes(x=V3))+geom_bar(fill="blue")+labs(title="20bds0146")

ggplot(df,aes(x=V9))+geom_bar(fill="skyblue")+labs(title="20bds0146")

ggplot(df,aes(x=V10))+geom_bar(fill="green")+labs(title="20bds0146")

ggplot(df,aes(x=V7,fill=V7))+geom_bar()+labs(title="20bds0146")


ggplot(df,aes(x=V3,fill=V3))+geom_bar(fill="blue")+coord_flip()+labs(title="20bds0146")+theme_bw()

ggplot(df,aes(x=V9))+geom_bar(fill="pink")+coord_flip()+labs(title="20bds0146")

ggplot(df,aes(x=V10))+geom_bar(fill="skyblue")+coord_flip()+labs(title="20bds0146")

ggplot(df,aes(x=V7))+geom_bar(fill="yellow")+coord_flip()+labs(title="20bds0146")


subset_data<-df[1:50,]

ggplot(subset_data,aes(x=V3,y=V9,fill=V3))+geom_bar(stat="identity",position="dodge")+geom_errorbar(aes(ymin=V3,ymax=V3),width=0.2,position=position_dodge(0.9))+labs(title="20BDS0146")+theme_classic()
```

```
ggplot(subset_data,aes(x=V3,y=V7,fill=V3))+geom_bar(stat="identity",position="dodge")+geom_errorbar(aes(ymin=V3,ymax=V3),width=0.2,position=position_dodge(0.9))+labs(title="20BDS0146")+theme_classic()

ggplot(subset_data,aes(x=V9,y=V10,fill=V3))+geom_bar(stat="identity",position="dodge")+geom_errorbar(aes(ymin=V3,ymax=V3),width=0.2,position=position_dodge(0.9))+labs(title="20BDS0146")+theme_classic()

ggplot(subset_data,aes(x=V7,y=V10,fill=V7))+geom_bar(stat="identity",position="dodge")+geom_errorbar(aes(ymin=V3,ymax=V3),width=0.2,position=position_dodge(0.9))+labs(title="20BDS0146")+theme_classic()


data<-df[1:10,]

ggplot(data,aes(x=V1,y=V7,fill=V3))+geom_bar(stat="identity")+labs(title="20BDS0146")+theme_minimal()


subset_data1<-df[1:100,]

ggplot(subset_data1,aes(x=V3,y=V9))+geom_point(shape=23,fill="white")+labs(title="20BDS0146")

ggplot(subset_data1,aes(x=V3,y=V7))+geom_point(shape=23,fill="blue")+labs(title="20BDS0146")

ggplot(subset_data1,aes(x=V3,y=V9))+geom_point(shape=24,fill="white")+labs(title="20BDS0146")

ggplot(subset_data1,aes(x=V3,y=V10))+geom_point(shape=24,fill="skyblue")+labs(title="20BDS0146")


x<-select_if(df, is.numeric)

df1<-as.matrix(x)

heatmap(df1,scale="column",col = colorRampPalette(c("blue", "yellow", "red"))(100),cex.main=1.5,main="20BDS0146-VENNELA G")

pie3D(df$V7,labels = df$V3,explode = 0.1, main = "20BDS0146-VENNELA G")
```

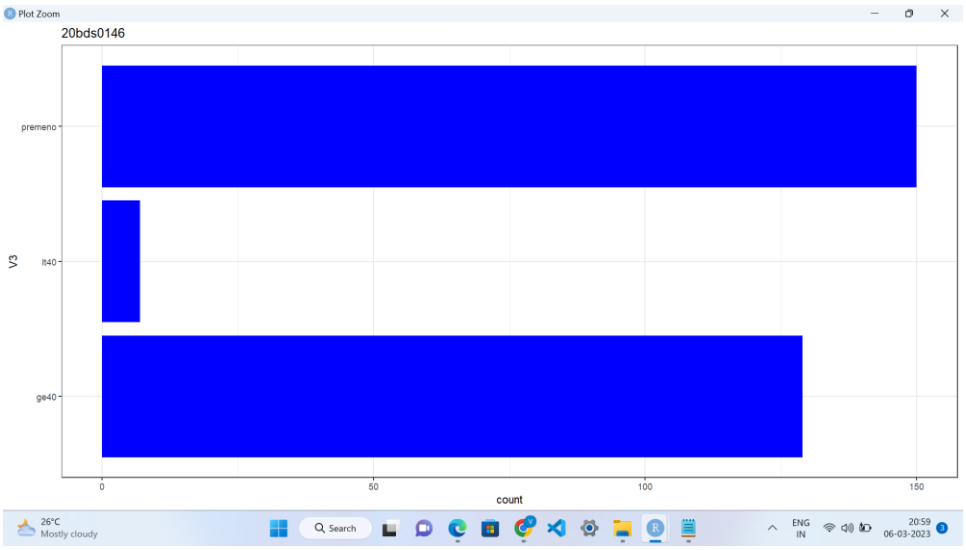
OUTPUT:

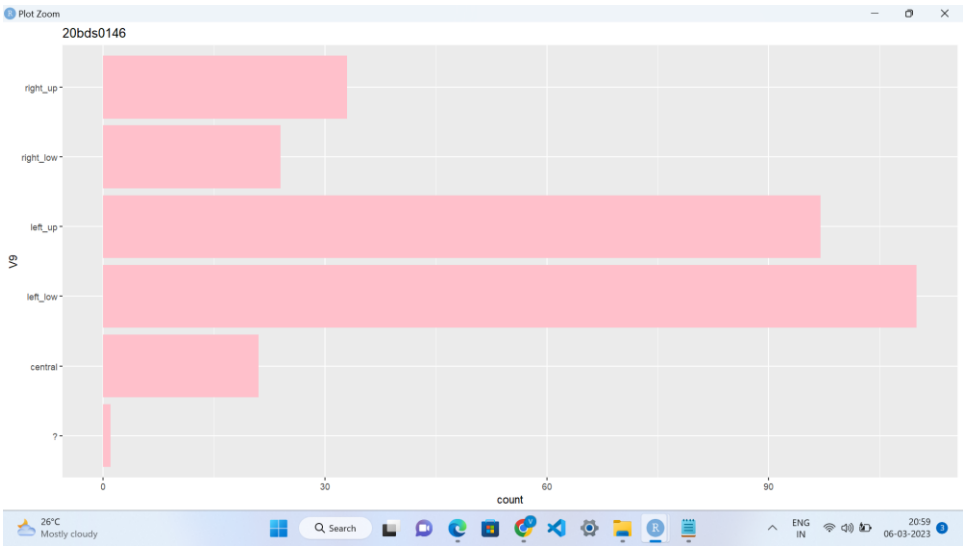

Plot Zoom
20bds0146
150
100
50
0
count
ge40
lt40
premeno
V3
26°C
Mostly cloudy
Search
ENG
IN
20:58
06-03-2023

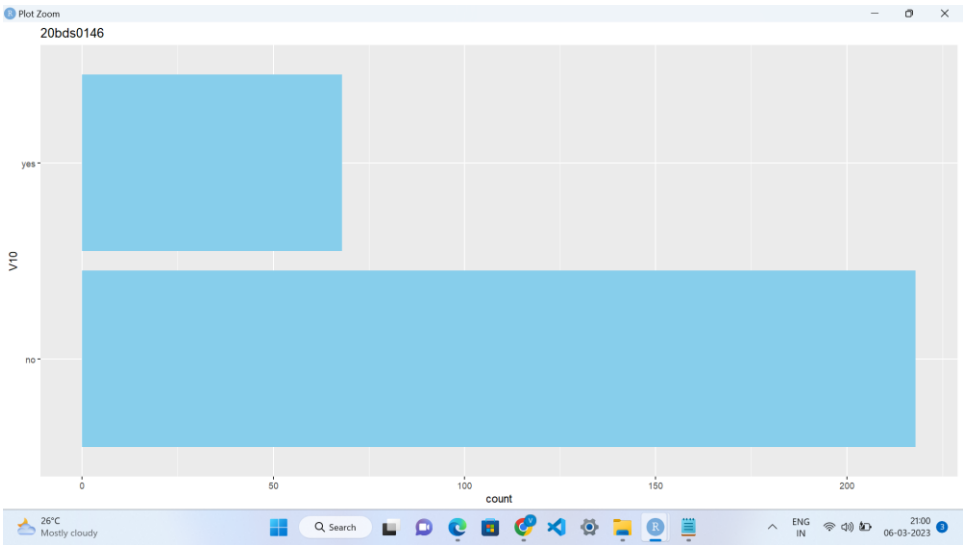

Plot Zoom
20bds0146
90
60
30
0
count
?
central
left_low
left_up
right_low
right_up
V9
26°C
Mostly cloudy
Search
ENG
IN
20:58
06-03-2023


Plot Zoom
20bds0146
200
150
100
50
0
count
no
yes
V10
26°C
Mostly cloudy
Search
ENG
IN
20:58
06-03-2023

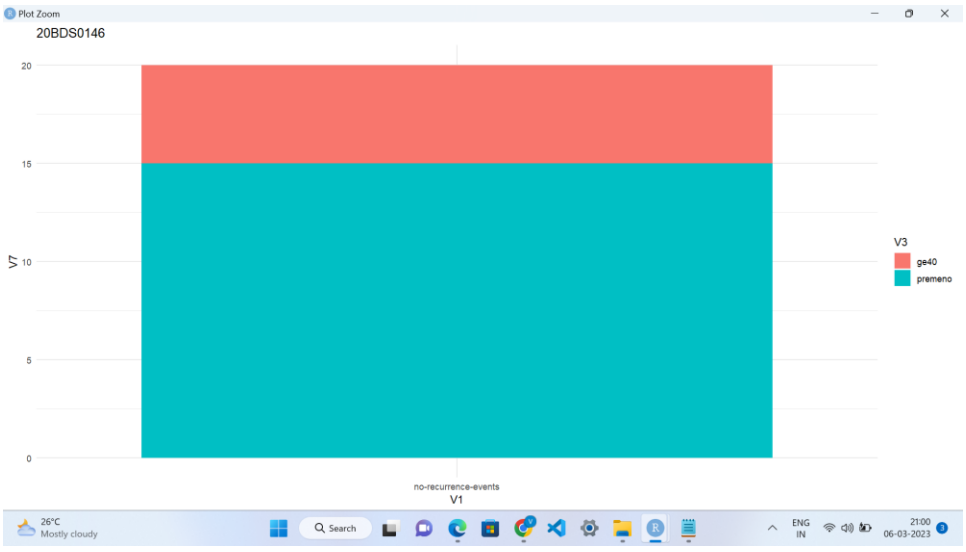

Plot Zoom
20bds0146
count
100
50
0
1
2
3
V7
26°C
Mostly cloudy
Search
ENG
IN
20:59
06-03-2023

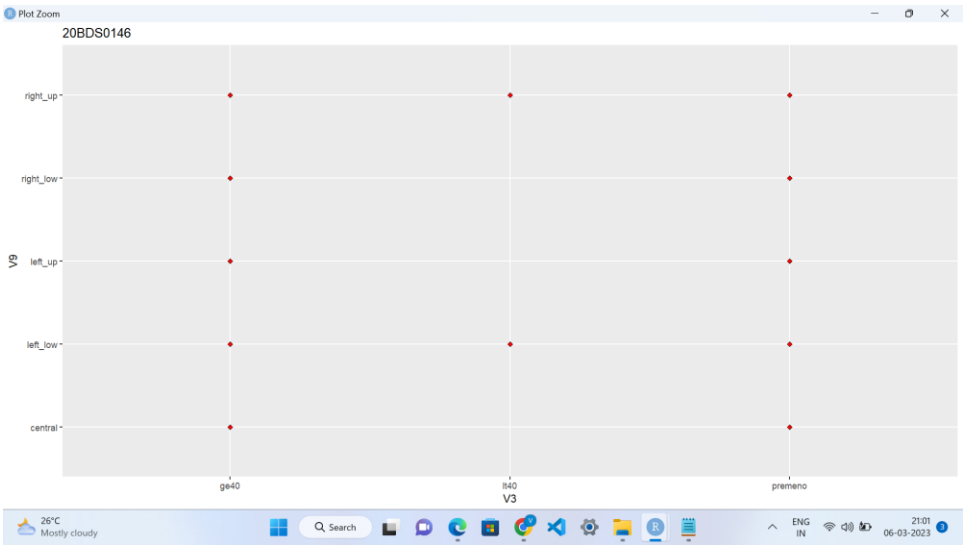

Plot Zoom
20bds0146
V3
premeno
lt40
ge40
0
50
100
150
count
26°C
Mostly cloudy
Search
ENG
IN
20:59
06-03-2023

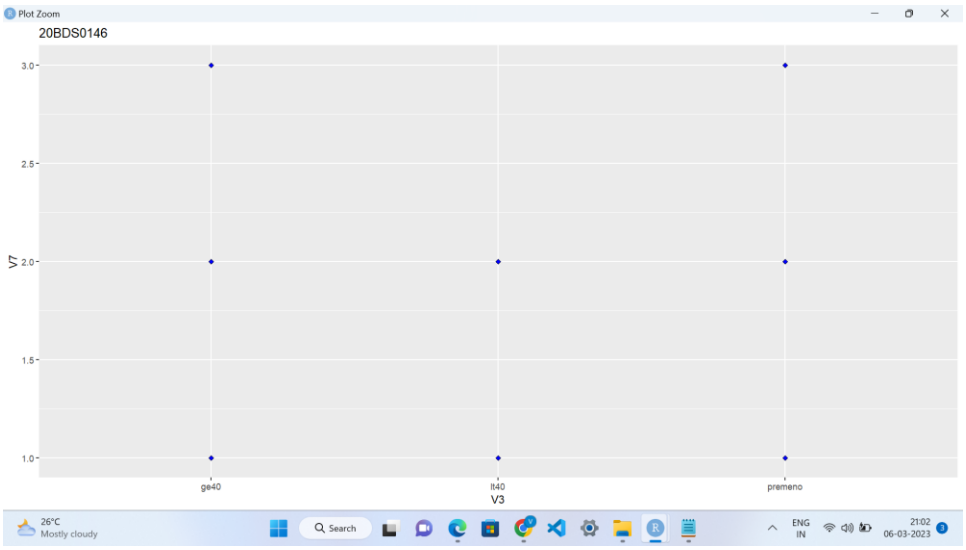

Plot Zoom
20bds0146
V9
right_up
right_low
left_up
left_low
central
?
0
30
60
90
count
26°C
Mostly cloudy
Search
ENG
IN
20:59
06-03-2023

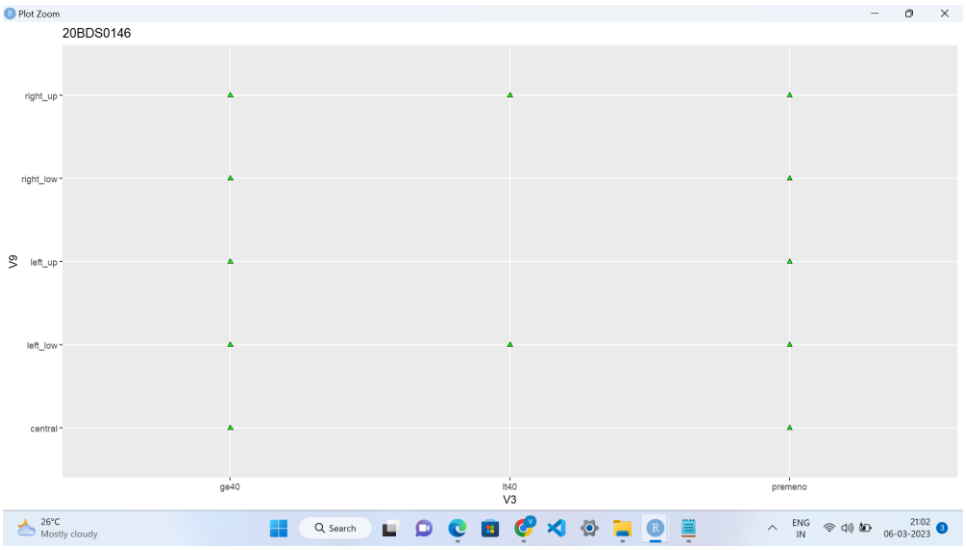

Plot Zoom
20bds0146
yes
no
V10
0
50
100
150
200
count
26°C
Mostly cloudy
Search
ENG
IN
21:00
06-03-2023

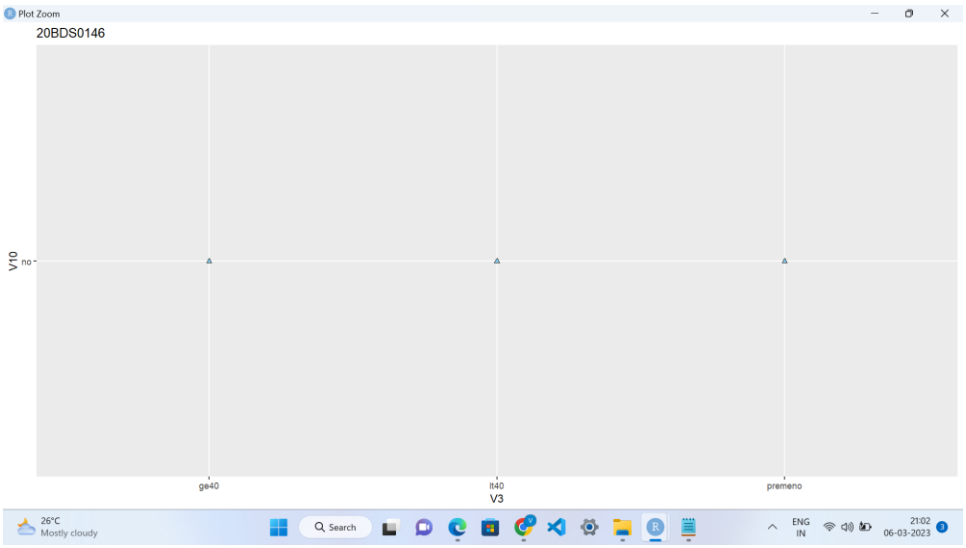

Plot Zoom
20bds0146
3
2
1
V7
0
50
100
count
26°C
Mostly cloudy
Search
ENG
IN
21:00
06-03-2023

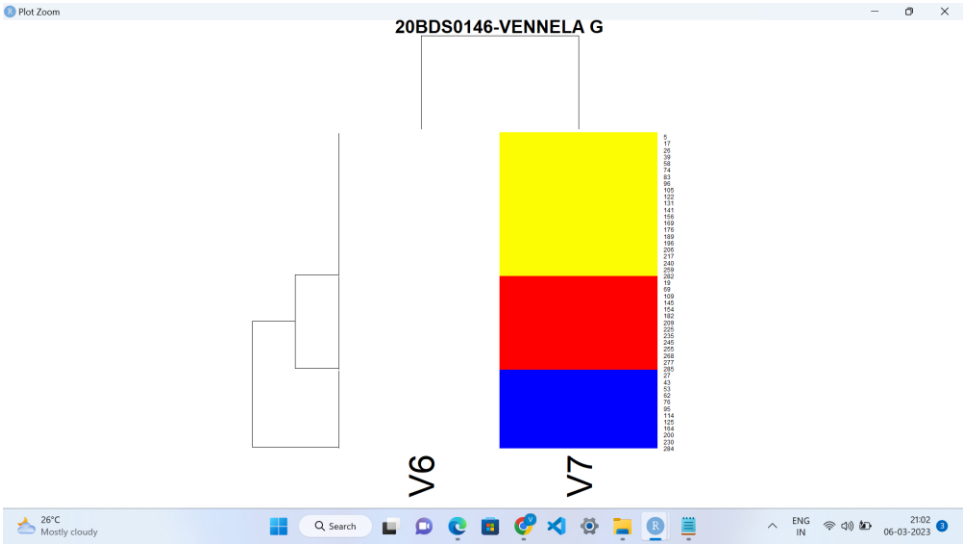

Plot Zoom
20BDS0146
20
15
10
5
0
V7
no-recurrence-events
V1
V3
ge40
premeno
26°C
Mostly cloudy
Search
ENG
IN
21:00
06-03-2023

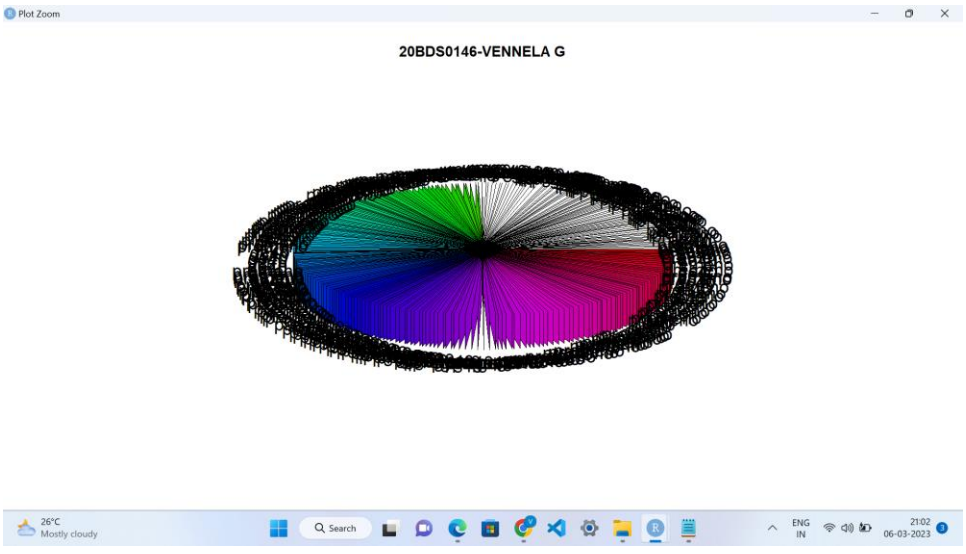

Plot Zoom
20BDS0146
right_up
right_low
left_up
left_low
central
V9
ge40
lt40
premeno
V3
26°C
Mostly cloudy
Search
ENG
IN
21:01
06-03-2023


Plot Zoom
20BDS0146
3.0
2.5
2.0
1.5
1.0
V7
ge40
lt40
premeno
V3
26°C
Mostly cloudy
Search
ENG
IN
21:02
06-03-2023


Plot Zoom
20BDS0146
right_up
right_low
left_up
left_low
central
V9
ge40
lt40
premeno
V3
26°C
Mostly cloudy
Search
ENG
IN
21:02
06-03-2023


Plot Zoom
20BDS0146
V10
no
ge40
lt40
premeno
V3
26°C
Mostly cloudy
Search
ENG
IN
21:02
06-03-2023


Plot Zoom
20BDS0146-VENNELA G
V6
V7
26°C
Mostly cloudy
Search
ENG
IN
21:02
06-03-2023


Plot Zoom
20BDS0146-VENNELA G
26°C
Mostly cloudy
Search
ENG
IN
21:02
06-03-2023

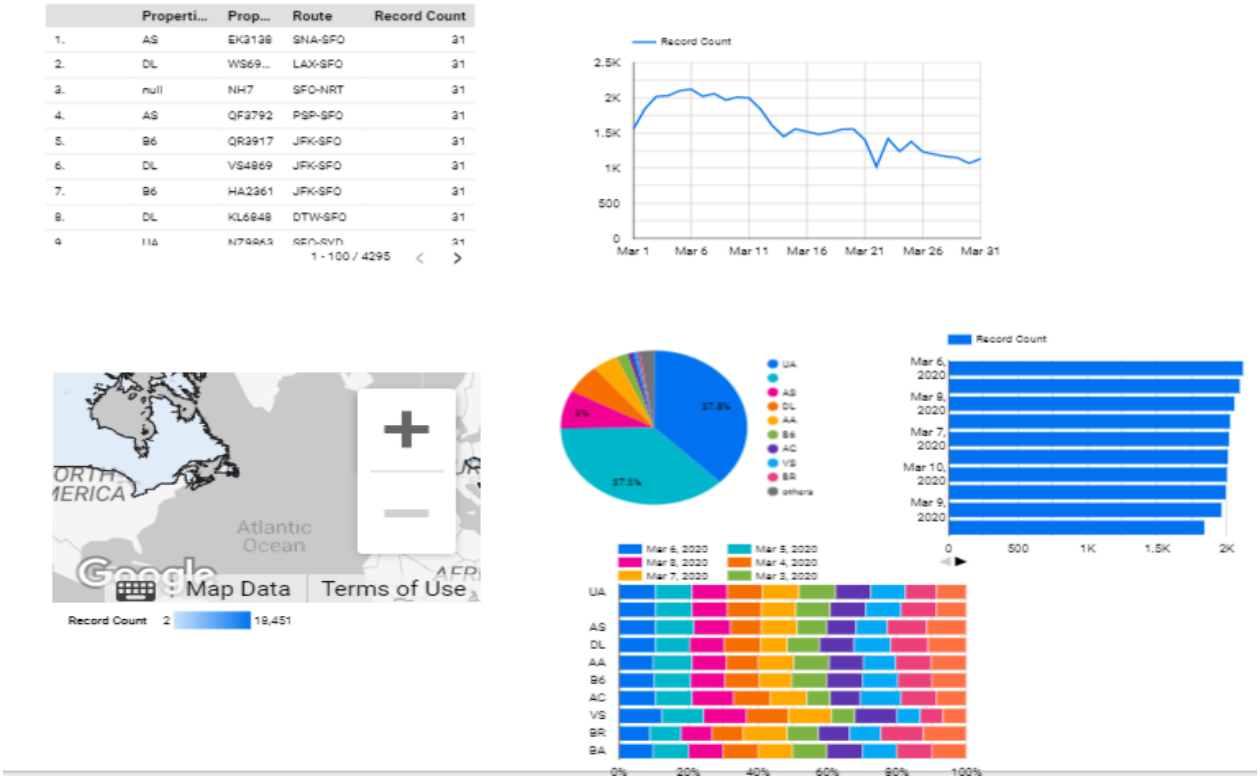
RESULT:

Color map visualization has been done using various plots for the Breast Cancer dataset using various color set options like Categorical,Sequential, Diverging, bivariate.

TITLE OF EXPERIMENT: Dashboard Creation using Looker

AIM: The dataset from looker needs to take and create the visualization using Looker Studio. Take the screenshot of Dashboard and Share the link=Sharing option

DASHBOARD:



LINK FOR DASHBOARD OF LOOKER:

https://lookerstudio.google.com/reporting/d3a991f5-f69d-4fde-8a54-6f8d36984b0b

RESULT:

The air travel dataset from Looker is taken and have created the visualization using Looker Studio in order to gain various insights into given data.