QUESTION:

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

CODE:

```r
library(ggplot2)



dataset <- read.csv('air travel dataset.csv')
View(dataset)

#Bar plot using the ggplot2 library
ggplot(data = dataset, aes(x = Properties.Flysfo.Gate, y =
Properties.Flysfo.Airline)) +
  geom_bar(stat = "identity", color = "purple", fill = "white") +
  labs(title = "Afraaz Hussain | 20BDS0374")

#Bar plot using the ggplot2 library with coordinate flip
ggplot(data = dataset, aes(x = Properties.Flysfo.Gate, y =
Properties.Flysfo.Airline)) +
  geom_bar(stat = "identity", color = "purple", fill = "white") +
  labs(title = "Afraaz Hussain | 20BDS0374") +
  coord_flip()

#Bar plot using teh ggplot2 library with error bars
ggplot(dataset, aes(x = Properties.Flysfo.Flight.Number, y =
Properties.Flysfo.Actual.Timestamp, fill = Properties.Flysfo.Gate)) +
  geom_bar(stat = "identity", position = position_dodge()) +
  geom_errorbar(aes(ymin = Properties.Flysfo.Actual.Timestamp -
Properties.Flysfo.Estimated.Timestamp, ymax =
Properties.Flysfo.Actual.Timestamp + Properties.Flysfo.Estimated.Timestamp),
width = 0.2, position = position_dodge(0.9)) +
  labs(title = "Afraaz Hussain | 20BDS0374")

#Bar plot using the ggplot2 library
ggplot(data = dataset, aes(x = Properties.Flysfo.Airline, y =
Properties.Flysfo.Flight.Number, fill = Properties.Flysfo.Gate)) +
  geom_bar(stat = "identity") +
  labs(title = "Afraaz Hussain | 20BDS0374")

#Scatter plot with blank diamond
ggplot(dataset, aes(x = Properties.Flysfo.Estimated.Timestamp, y =
Properties.Flysfo.Actual.Timestamp)) +
```

```r
  geom_point(size = 1, shape = 23) +
  labs(title = "Afraaz Hussain | 20BDS0374")

#Scatter plot with flipped triangle
ggplot(dataset, aes(x = Properties.Flysfo.Estimated.Timestamp, y =
Properties.Flysfo.Actual.Timestamp)) +
  geom_point(size = 2, shape = 6) +
  labs(title = "Afraaz Hussain | 20BDS0374")

#Scalar heatmap
ggplot(dataset, aes(x = Properties.Flysfo.Estimated.Timestamp, y =
Properties.Flysfo.Actual.Timestamp)) +
  geom_raster(aes(fill = Properties.Flysfo.Base.Flight.Number))

#3D Pie-chart
library(plotrix)
uniqueCount <- lapply(dataset, unique)
pie3D(dataset$Properties.Flysfo.Base.Flight.Number, theta = 1.5,
hcl.colors(length(data), "Spectral"))
```
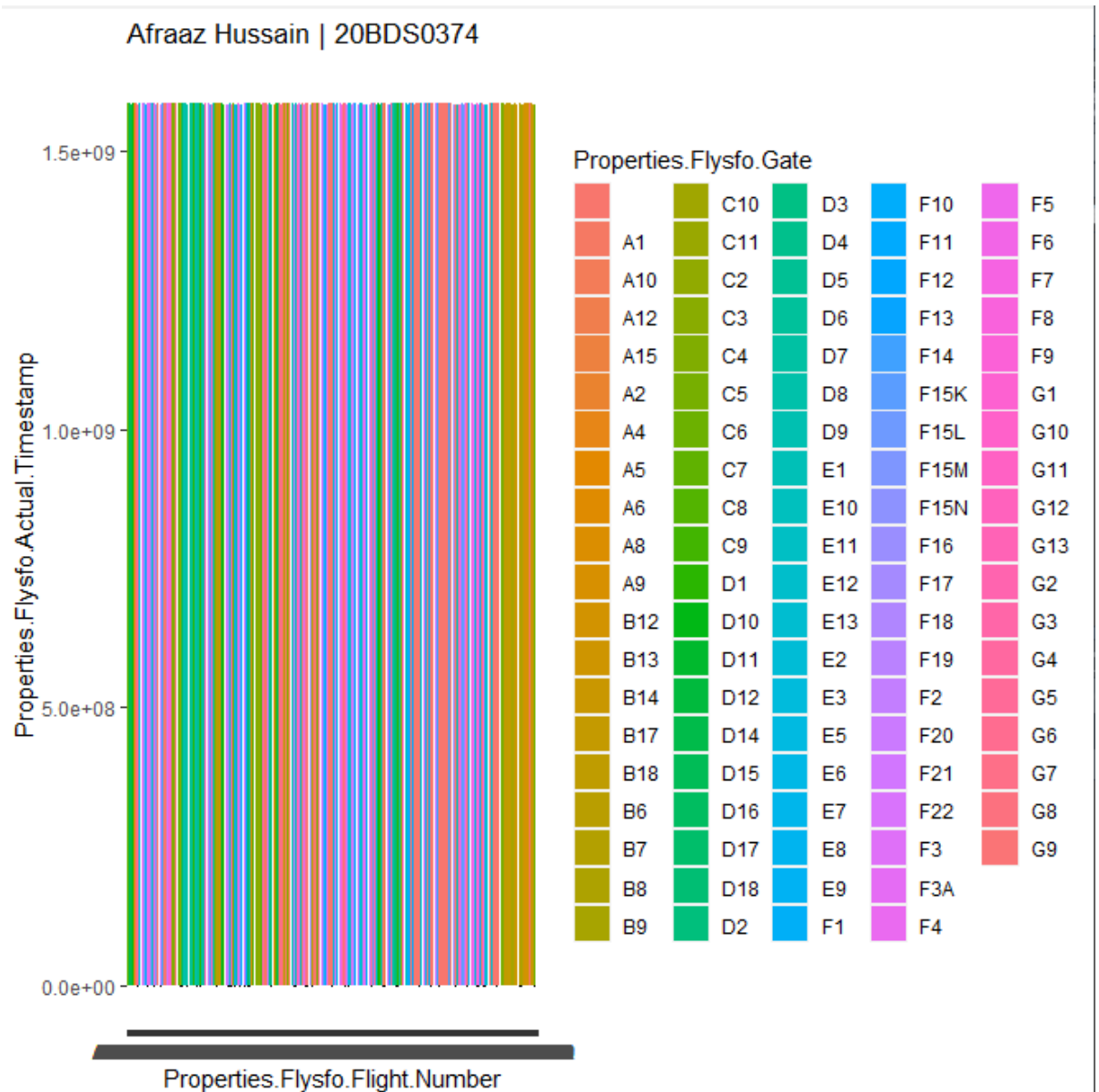
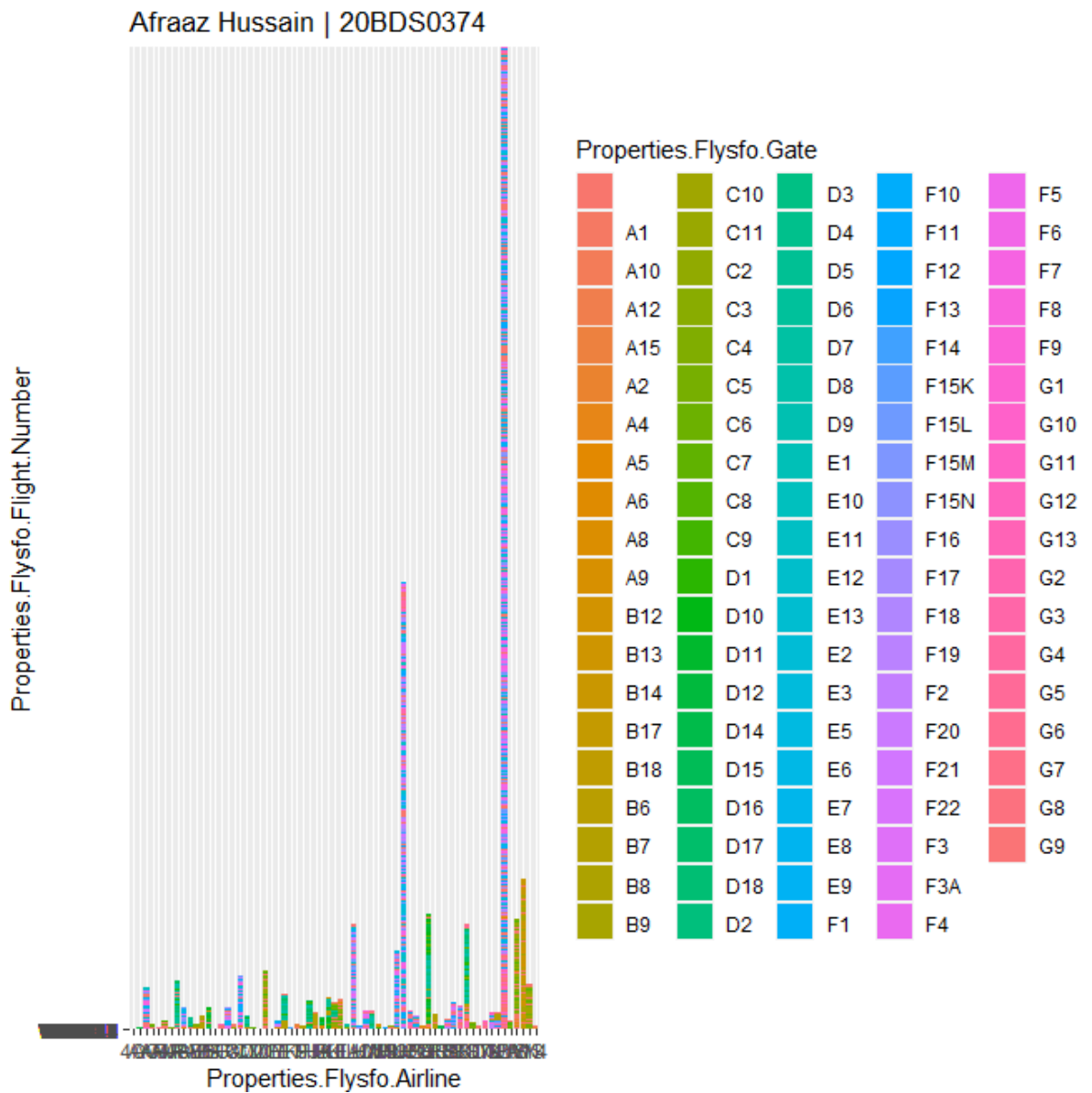**OUTPUT:**

- Bar plot with 'ggplot2':
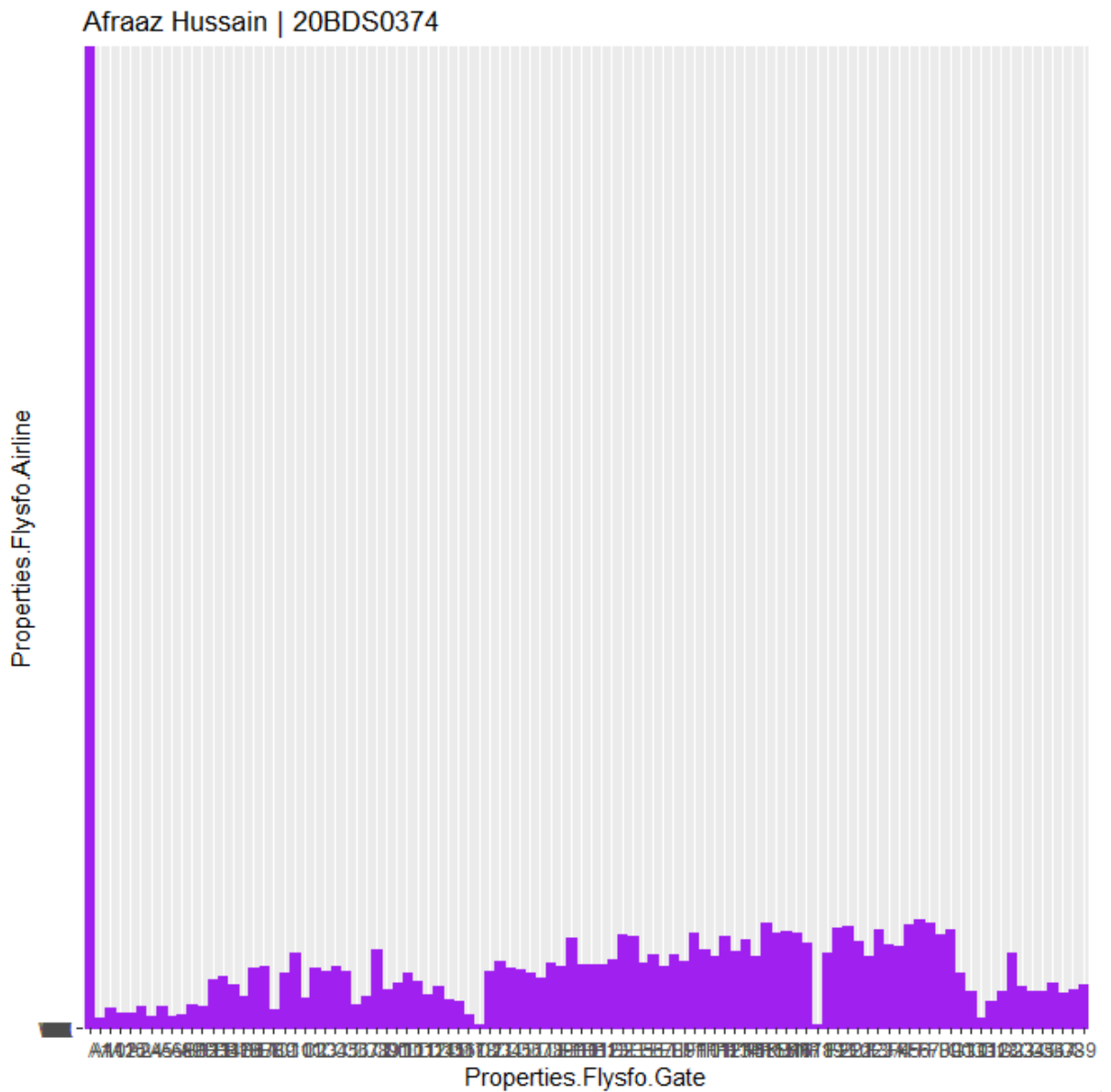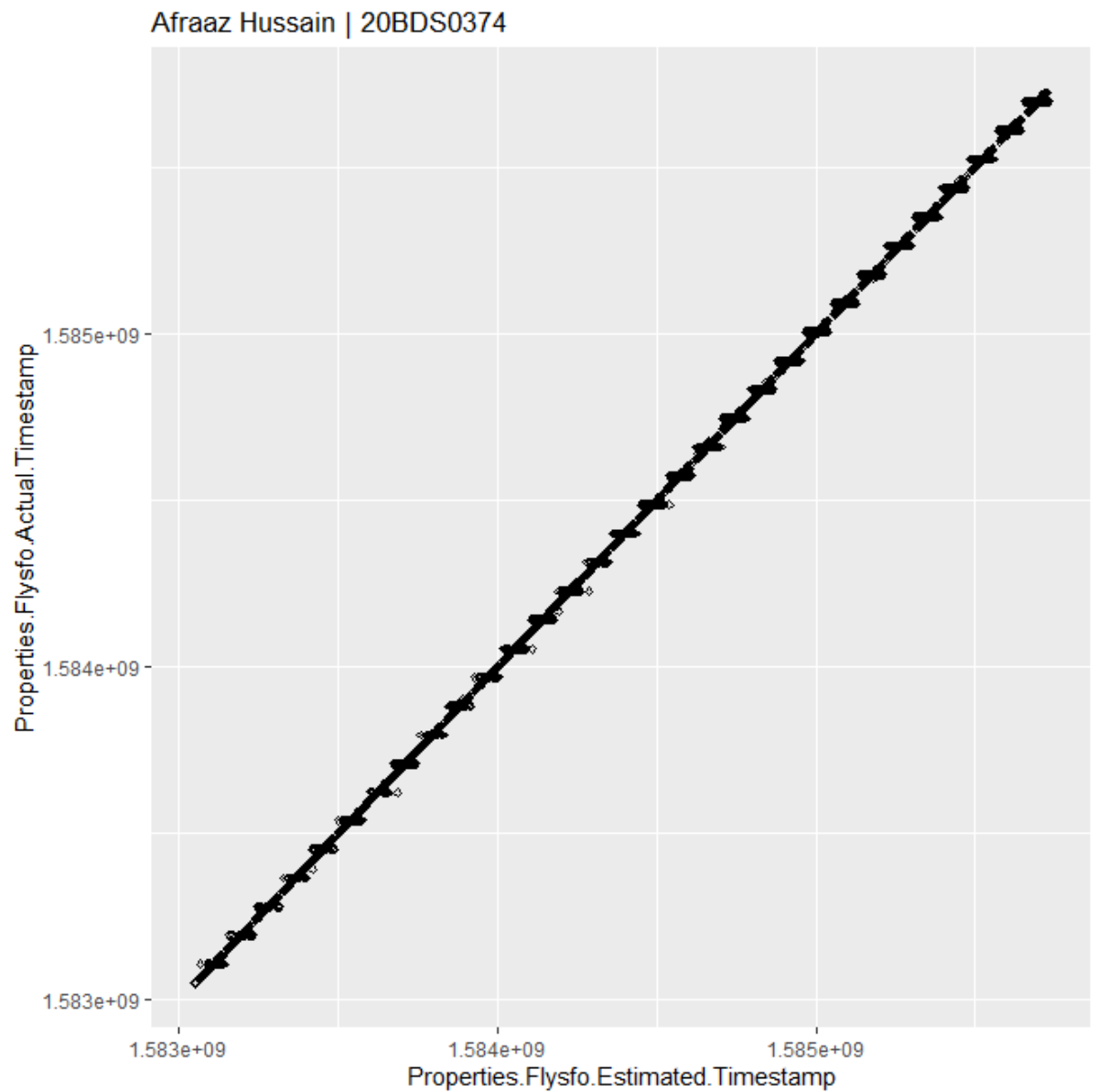
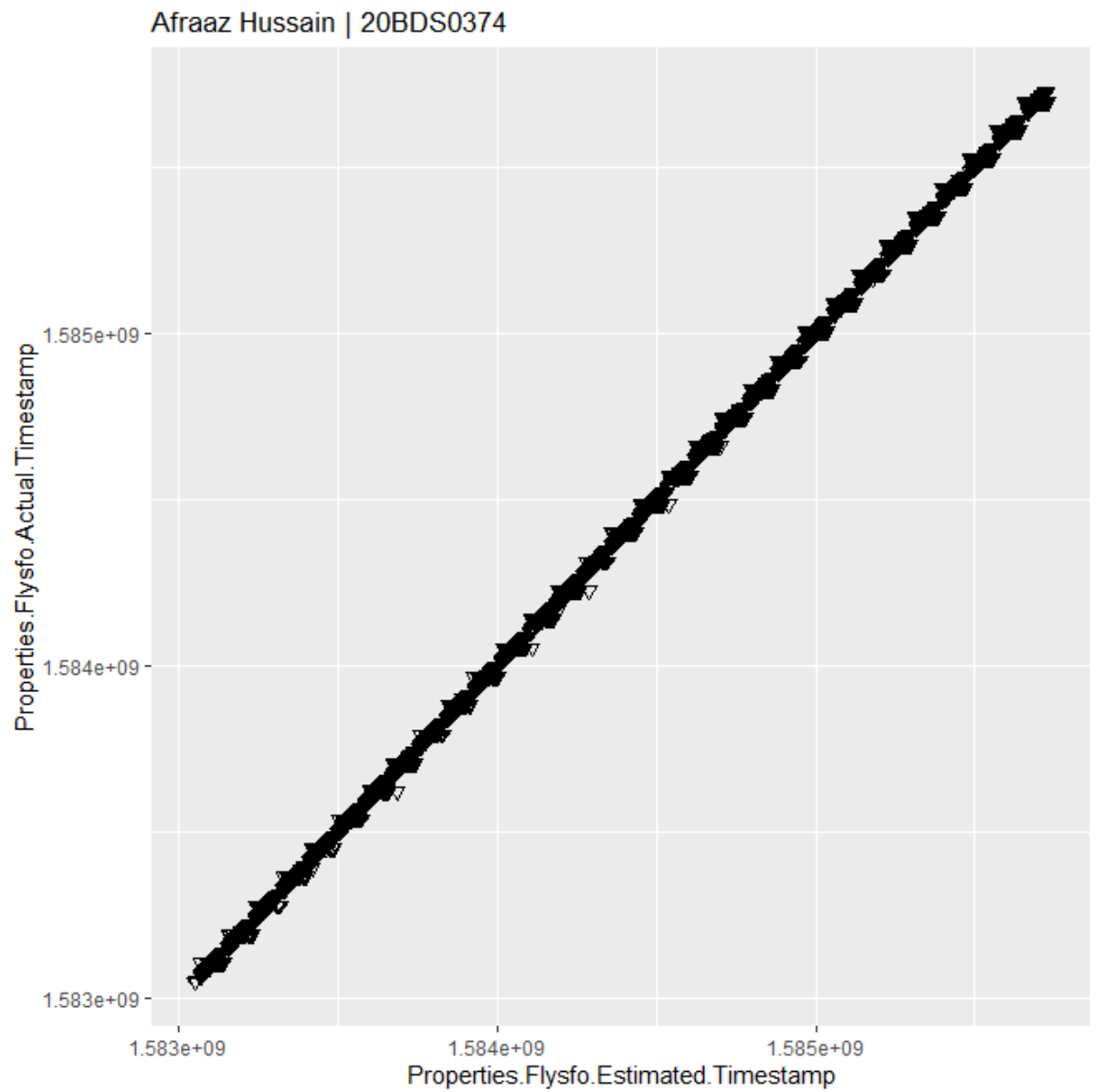- Bar plot with coordinate flip:
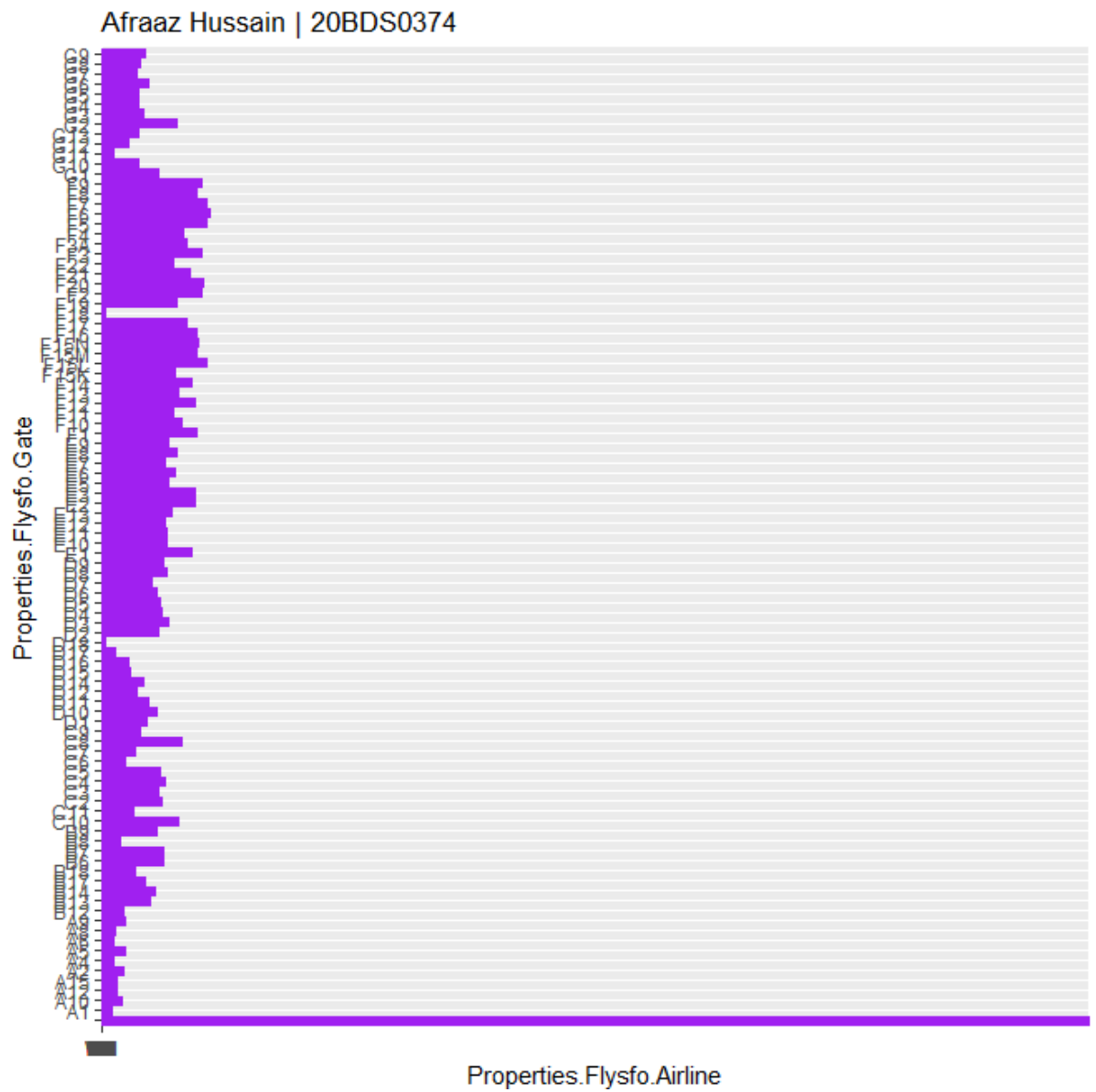
- Bar plot with error bars:

- Stacked bar plot:
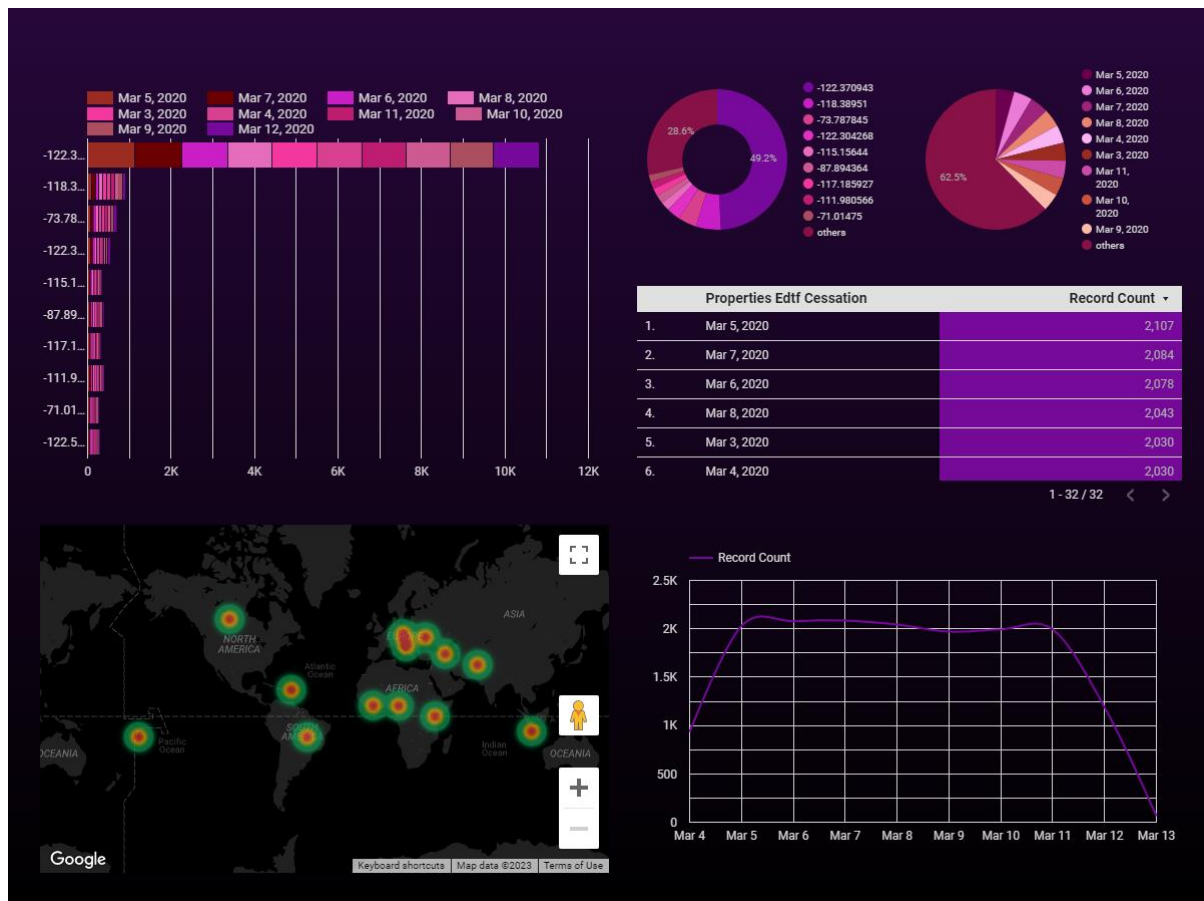
- Scatter plot with blank diamond:

- Scatter plot with flipped triangle:

QUESTION:

The dataset from looker needs to taken and create the visualization using looker studio. Take the screen shot of Dashboard and Share the link=Sharing option Document to be uploaded in PDF.

OUTPUT:

LINK:

https://lookerstudio.google.com/reporting/7464e576-a7ad-4f98-81d0-4c1a39aab0c3