VISUALIZATION:

R SCRIPT

VISUALIZATION SHOWING THAT DATASET HAS BEEN ENTERED.

The as.is=FALSE argument specifies that the function should not convert character vectors to factors, and instead keep them as character vectors.

The str() function is then applied to the taxlien data frame to show its structure. This function displays the internal structure of an R object and is useful for examining the data types of the variables, their length, and the first few observations.

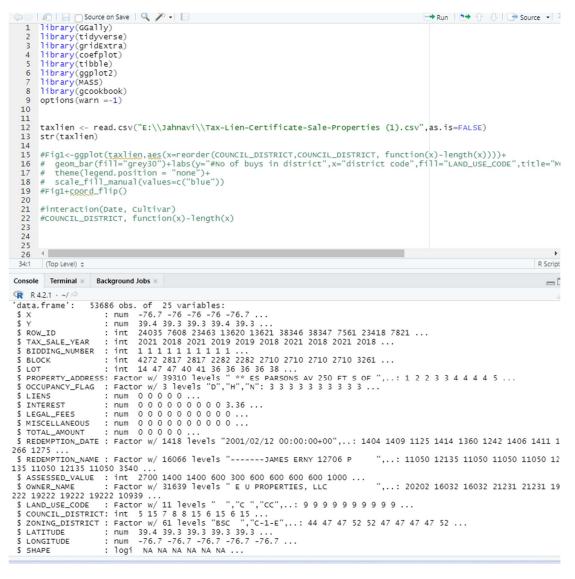
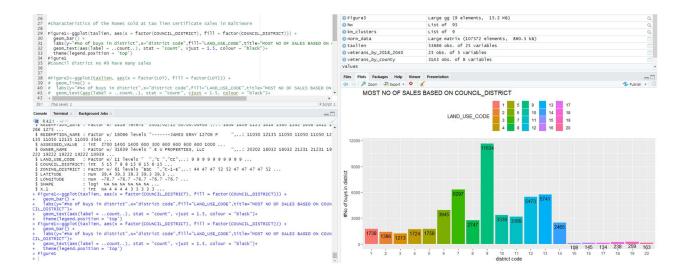


FIGURE NO 1:

CHARACTERISTICS OF THE HOMES SOLD AT TAX LIEN CERTIFICATE SALES IN BALTIMORE.

This R script is generating a bar graph using the ggplot2 package in R. The dataset used in this script is taxlien, which presumably contains data related to homes sold at tax lien certificate sales in Baltimore. The graph is intended to show the number of purchases made in each district based on the council district code.

Overall, this R script is creating a bar chart that shows the number of purchases made in each council district based on the COUNCIL_DISTRICT variable in the taxlien dataset. The chart is also annotated with text labels showing the count of observations in each bar.



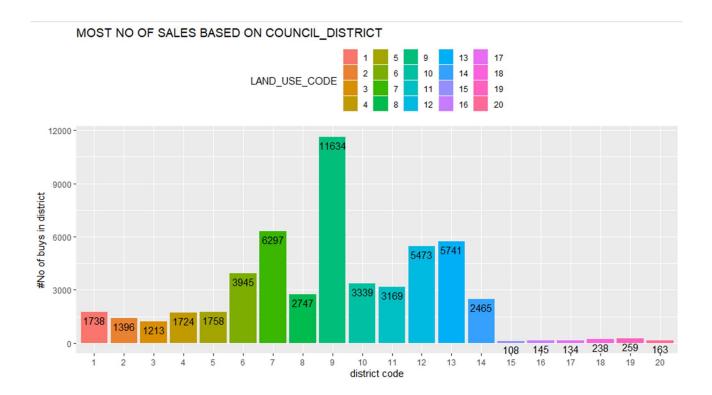
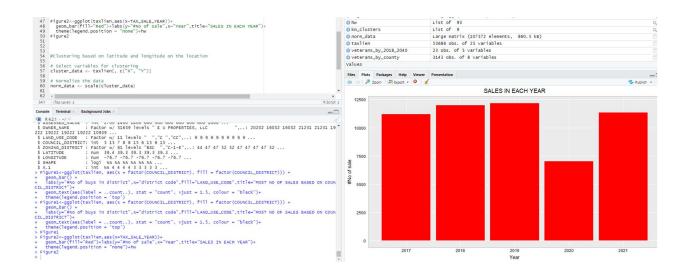
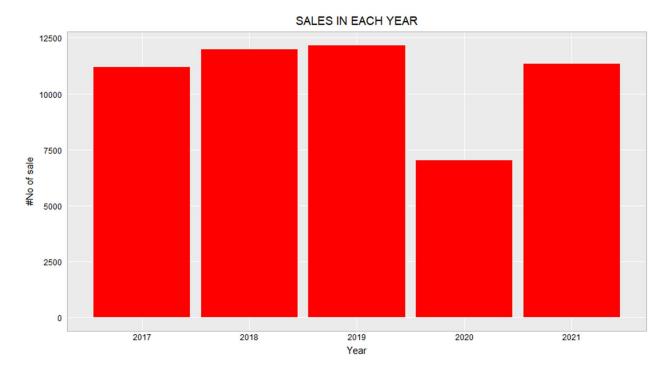


FIGURE 2:

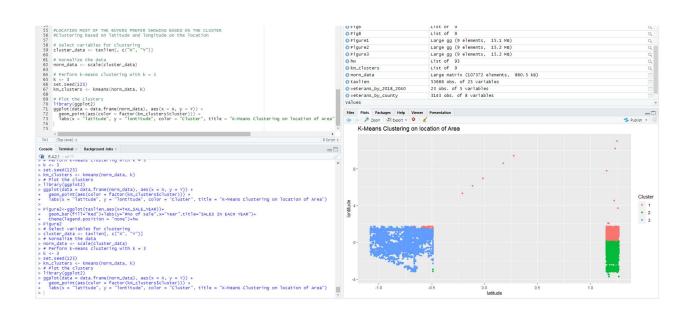
This R code creates a bar plot using the ggplot2 package to visualize the number of sales in each year for tax lien certificate sales in Baltimore. Here is an explanation of the code:

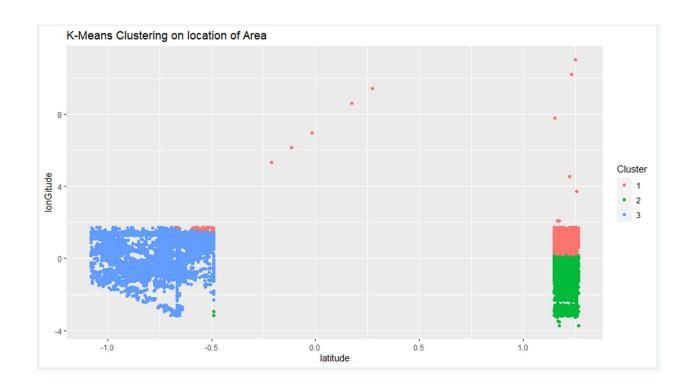




Overall, this plot shows the number of tax lien certificate sales that occurred each year in Baltimore.

#LOCATION MOST OF THE BUYERS PREFER SHOWING BASED ON THE CLUSTER
#CLUSTERING BASED ON LATITUDE AND LONGITUDE ON THE LOCATION





This R script performs K-means clustering on the location data of homes sold at tax lien certificate sales in Baltimore, to identify clusters of areas where most of the buyers prefer to buy homes.

First, the X and Y variables (longitude and latitude) are selected from the dataset and normalized using the scale() function. Then, K-means clustering is performed on the normalized data with k=3 clusters, using the kmeans() function.

Finally, a scatter plot is created using ggplot2 library to visualize the clusters based on the location of the areas. Each point represents a home sale, and the color of the point indicates the cluster it belongs to. The plot title mentions that the clusters represent the areas where most of the buyers prefer to buy homes.