

FML Assignment 1

2023-09-09

```
priyankadataset <-read.csv("C://Users//priya//Downloads//priyankadataset//playlist_2010to2022.csv", nr
#following is the dataset that have been imported.The dataset represents spotify playlist

View(priyankadataset)
#The data has been imported from https://www.kaggle.com/datasets/josephine/sy/spotify-top-hit-playlist

mean(priyankadataset$duration_ms)
```

```
## [1] 244370.8
```

```
sd(priyankadataset$duration_ms)
```

```
## [1] 38025.81
```

#The above values represent descriptive statistics for a selection of quantitative variables. The above

```
table(priyankadataset$album)
```

```
##
##           ...And Then There Was X
##                               1
##                               2001
##                               1
##           Aaliyah
##                               1
##           All That You Can't Leave Behind
##                               1
##           Before the Storm, Special Edition
##                               1
##           Black & Blue
##                               1
##           Blue
##                               1
##           Born to Do It
##                               1
##           Breathe
##                               1
##           Californication (Deluxe Edition)
##                               1
## Chocolate Starfish And The Hot Dog Flavored Water
##                               1
##           Christina Aguilera (Expanded Edition)
```

##		2
##	Coast To Coast (Expanded Edition)	
##		1
##	Country Grammar	
##		1
##	Enema Of The State	
##		1
##	Go Get It	
##		1
##	Hear My Cry	
##		1
##	Hybrid Theory (Bonus Edition)	
##		1
##	I Hope You Dance	
##		1
##	I Need You	
##		1
##	In Blue	
##		1
##	L'Amour Toujours	
##		2
##	Lonely Grill	
##		1
##	Modjo (Remastered)	
##		1
##	My Name Is Joe	
##		1
##	No Strings Attached	
##		3
##	Oops!... I Did It Again	
##		1
##	Parachutes	
##		1
##	Reload	
##		1
##	Sing When You're Winning	
##		1
##	Survivor	
##		1
##	The Better Life	
##		1
##	The Heat	
##		1
##	The Madding Crowd	
##		1
##	The Marshall Mathers LP	
##		1
##	The Very Best of Celine Dion	
##		1
##	The Writing's On The Wall	
##		2
##	Title Of Record (Expanded Edition)	
##		1
##	Unleash The Dragon	

```
##                               1
##      Vol. 3... Life And Times Of S. Carter
##                               1
##                               Westlife
##                               1
##                               Wheatus
##                               1
##      Where I Wanna Be
##                               1
##      Who Let The Dogs Out
##                               1
##      Who Needs Guitars Anyway?
##                               1
```

```
str(priyankadataset$year)
```

```
## int [1:50] 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 ...
```

```
# The above values represent categorical descriptive analysis of the variables.
```

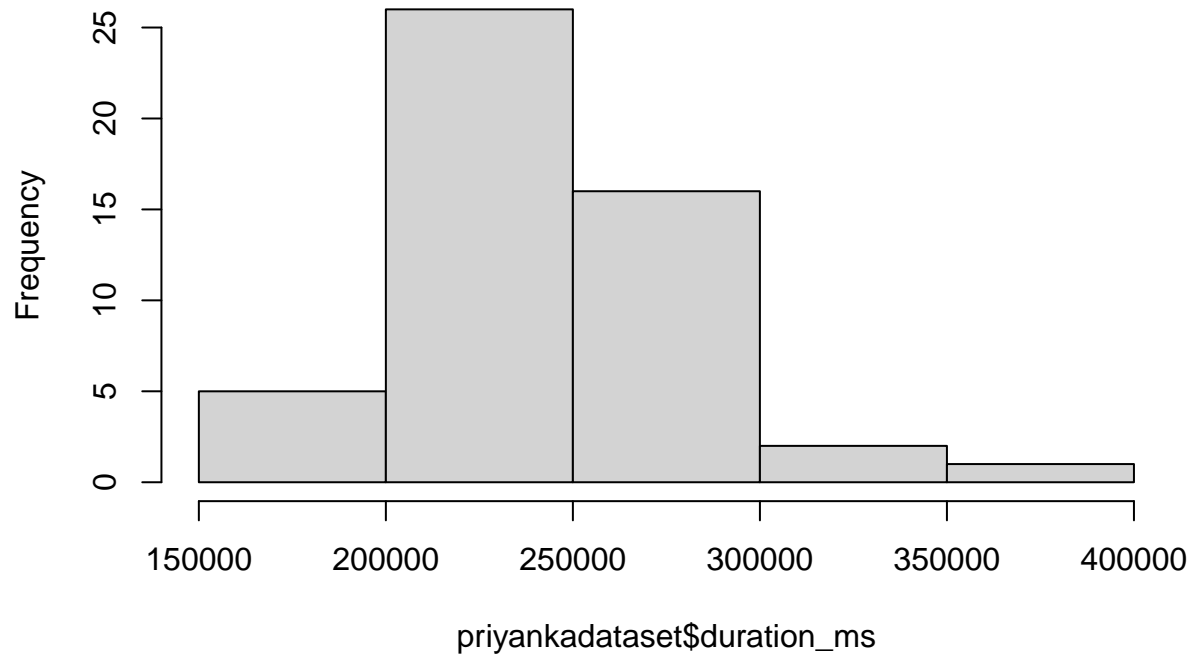
```
priyankadataset_transformed <- (priyankadataset$duration_ms - mean(priyankadataset$duration_ms)/sd(priyankadataset$duration_ms))
priyankadataset_transformed
```

```
## [1] 266766.6 167060.6 250540.6 216873.6 200393.6 253726.6 284193.6 260553.6
## [9] 271326.6 255366.6 233926.6 222286.6 307147.6 214876.6 321033.6 242046.6
## [17] 241660.6 230086.6 283060.6 268860.6 230193.6 225486.6 235126.6 240860.6
## [25] 286993.6 207500.6 231753.6 192420.6 215500.6 284633.6 261926.6 206220.6
## [33] 189326.6 296686.6 198393.6 211886.6 221126.6 284753.6 243726.6 246393.6
## [41] 285420.6 294526.6 237233.6 203326.6 240860.6 363793.6 241366.6 198340.6
## [49] 215793.6 234860.6
```

```
#Transformation of variables has been done above.
```

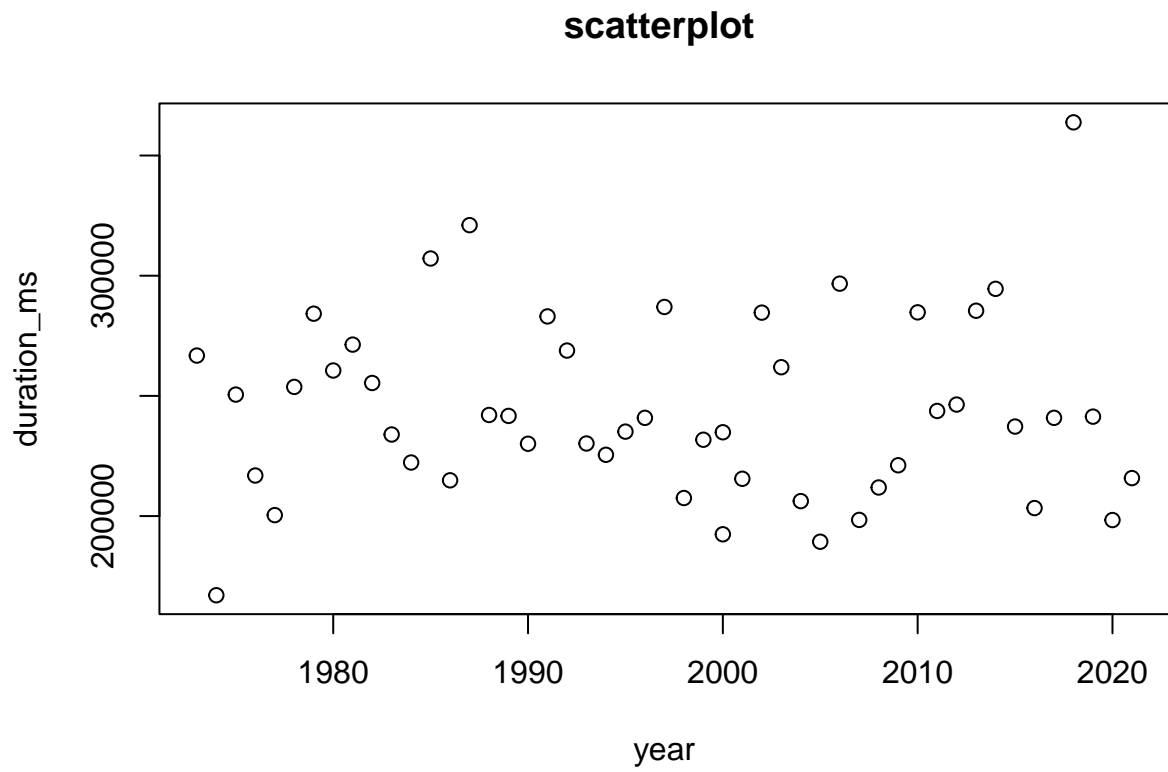
```
hist(priyankadataset$duration_ms)
```

Histogram of priyankadataset\$duration_ms



#The above graphical representation is a histogram.

```
x <- priyankadataset$year
y <- priyankadataset$duration_ms
plot(x,y, main = "scatterplot ", xlab = "year", ylab = "duration_ms")
```



*#The above graphical representation is a scatterplot.
#The selected variables are year and duration_ms.*