FML Assignment-1

2023-09-10

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Source file is from kaggle(https://www.kaggle.com/datasets/luiscorter/netflix-original-films-imdb-scores)

Import

```
OTT <- read.csv("NetflixOriginals.csv")
head(OTT)
```

```
##            Title                Genre          Premiere Runtime
IMDB.Score
## 1 Enter the Anime         Documentary     August 5, 2019      58
2.5
## 2     Dark Forces            Thriller    August 21, 2020      81
2.6
## 3         The App Science fiction/Drama December 26, 2019      79
2.6
## 4  The Open House      Horror thriller   January 19, 2018      94
3.2
## 5     Kaali Khuhi             Mystery   October 30, 2020      90
3.4
## 6           Drive              Action  November 1, 2019     147
3.5
##          Language
## 1 English/Japanese
## 2          Spanish
## 3          Italian
## 4          English
## 5            Hindi
## 6            Hindi
```

```
summary(OTT$Runtime)
```

```
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##    4.00   86.00   97.00   93.58  108.00  209.00
```

```
table(OTT$Genre)
```

```
##
##                           Action                   Action-adventure
##                                7                                  1
##                  Action-thriller                      Action comedy
```

```
##                              3                              5 
##                 Action thriller                   Action/Comedy 
##                              1                              1 
##          Action/Science fiction                       Adventure 
##                              1                              2 
##               Adventure-romance                 Adventure/Comedy 
##                              1                              1 
##              Aftershow / Interview          Animated musical comedy 
##                              6                              1 
##                      Animation              Animation / Comedy 
##                              5                              1 
##             Animation / Musical      Animation / Science Fiction 
##                              1                              1 
##              Animation / Short Animation/Christmas/Comedy/Adventure 
##                              4                              1 
##       Animation/Comedy/Adventure        Animation/Musical/Adventure 
##                              1                              1 
##            Animation/Superhero                  Anime / Short 
##                              1                              1 
##                  Anime/Fantasy          Anime/Science fiction 
##                              1                              2 
##           Anthology/Dark comedy             Biographical/Comedy 
##                              1                              1 
##                         Biopic                    Black comedy 
##                              9                              2 
##               Christian musical                Christmas comedy 
##                              1                              1 
##               Christmas musical  Christmas/Fantasy/Adventure/Comedy 
##                              1                              1 
##                         Comedy                    Comedy-drama 
##                             49                             14 
##               Comedy / Musical                   Comedy horror 
##                              2                              1 
##                  Comedy mystery             Comedy/Fantasy/Family 
##                              1                              1 
##                  Comedy/Horror      Coming-of-age comedy-drama 
##                              1                              1 
##                    Concert Film                     Crime drama 
##                              6                             11 
##                  Crime thriller                    Dance comedy 
##                              1                              1 
##                     Dark comedy                    Documentary 
##                              2                            159 
##                          Drama                    Drama-Comedy 
##                             77                              1 
##                  Drama / Short                    Drama/Horror 
##                              1                              1 
##                         Family                     Family film 
##                              2                              2 
##         Family/Christmas musical            Family/Comedy-drama 
```

```
##                                 1                                 1
##                           Fantasy                             Heist
##                                 1                                 1
##               Heist film/Thriller        Hidden-camera prank comedy
##                                 1                                 1
##                   Historical-epic                  Historical drama
##                                 1                                 1
##                            Horror                    Horror-thriller
##                                 9                                 2
##                   Horror anthology                     Horror comedy
##                                 1                                 1
##                    Horror thriller                 Horror/Crime drama
##                                 3                                 1
##                         Making-of                 Mentalism special
##                                 2                                 1
##                       Mockumentary                           Musical
##                                 2                                 2
##                   Musical / Short                     Musical comedy
##                                 1                                 2
##           Musical/Western/Fantasy                           Mystery
##                                 1                                 2
##                     One-man show                 Political thriller
##                                 3                                 1
##                Psychological horror            Psychological thriller
##                                 1                                 4
##          Psychological thriller drama                        Romance
##                                 1                                 6
##                     Romance drama                   Romantic comedy
##                                 1                                39
##             Romantic comedy-drama            Romantic comedy/Holiday
##                                 1                                 1
##                   Romantic drama              Romantic teen drama
##                                 5                                 1
##           Romantic teenage drama                 Romantic thriller
##                                 1                                 1
##                           Satire                   Science fiction
##                                 2                                 4
##         Science fiction adventure          Science fiction thriller
##                                 1                                 1
##           Science fiction/Action             Science fiction/Drama
##                                 1                                 3
##          Science fiction/Mystery           Science fiction/Thriller
##                                 1                                 4
##                     Sports-drama                       Sports film
##                                 3                                 1
##                     Spy thriller                       Stop Motion
##                                 2                                 1
##                         Superhero                   Superhero-Comedy
##                                 2                                 1
##                 Superhero/Action               Supernatural drama
```

```
##                                   1                                          1
##                   Teen comedy-drama                          Teen comedy horror
##                                   1                                          1
##                            Thriller                               Urban fantasy
##                                  33                                          1
##                        Variety show                                Variety Show
##                                   4                                          1
##                                 War                                  War-Comedy
##                                   2                                          1
##                           War drama                                     Western
##                                   2                                          3
##                        Zombie/Heist
##                                   1

table(OTT$Language)

##
##                             Bengali                                       Dutch
##                                   1                                          3
##                             English                                English/Akan
##                                 401                                          1
##                       English/Arabic                              English/Hindi
##                                   1                                          2
##                     English/Japanese                             English/Korean
##                                   2                                          1
##                     English/Mandarin                            English/Russian
##                                   2                                          1
##                      English/Spanish                             English/Swedish
##                                   5                                          1
## English/Taiwanese/Mandarin     English/Ukranian/Russian
##                                   1                                          1
##                            Filipino                                      French
##                                   2                                         20
##                            Georgian                                      German
##                                   1                                          5
##                               Hindi                                  Indonesian
##                                  33                                          9
##                             Italian                                    Japanese
##                                  14                                          6
##                 Khmer/English/French                                      Korean
##                                   1                                          6
##                               Malay                                     Marathi
##                                   1                                          3
##                           Norwegian                                      Polish
##                                   1                                          3
##                          Portuguese                                     Spanish
##                                  12                                         31
##                       Spanish/Basque                             Spanish/Catalan
##                                   1                                          1
##                      Spanish/English                                     Swedish
```

```
##                              1                                  1
##                          Tamil                               Thai
##                              1                                  2
##                  Thia/English                            Turkish
##                              1                                  5
```

```r
library(dplyr)
```

```
##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':
##
##     filter, lag

## The following objects are masked from 'package:base':
##
##     intersect, setdiff, setequal, union
```

```r
OTT_Select<- select(OTT,Language,Genre,IMDB.Score)
head(OTT_Select)
```

```
##           Language                     Genre IMDB.Score
## 1 English/Japanese            Documentary          2.5
## 2          Spanish               Thriller          2.6
## 3          Italian Science fiction/Drama          2.6
## 4          English        Horror thriller          3.2
## 5            Hindi                Mystery          3.4
## 6            Hindi                 Action          3.5
```
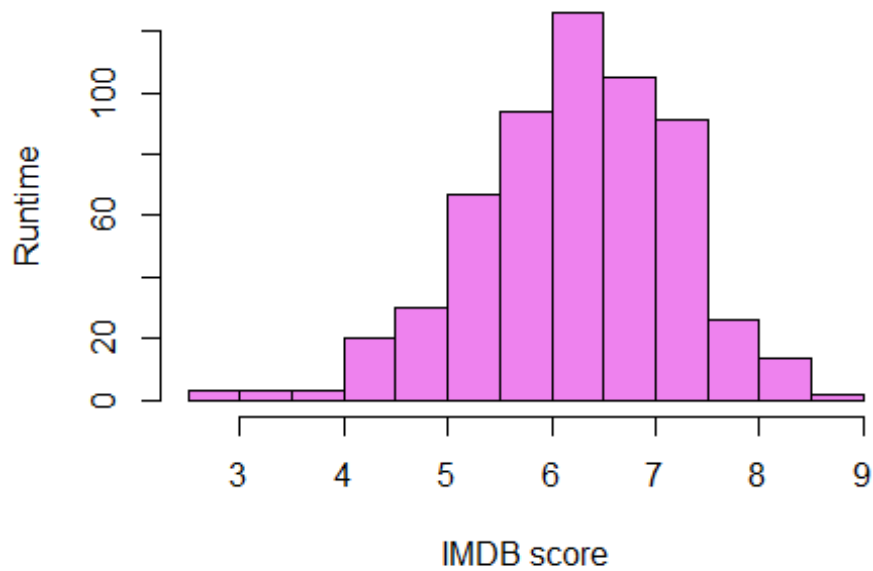
```r
RuntimeinHours<- (OTT$Runtime/60)
head(RuntimeinHours)
```

```
## [1] 0.9666667 1.3500000 1.3166667 1.5666667 1.5000000 2.4500000
```

```r
OTT_Square <- OTT$IMDB.Score^2
head(OTT_Square)
```

```
## [1]  6.25  6.76  6.76 10.24 11.56 12.25
```

```r
hist(OTT$IMDB.Score, main= "IMDB score Rating (plot of quantitative
varaible)", xlab="IMDB score", ylab="Runtime", col="violet")
```

IMDB score Rating (plot of quantitative varaible)


```
plot(OTT$IMDB.Score,OTT$Runtime, main= "scatterplot of IMDB score and
runtime",xlab="IMDB score",ylab= "runtime", pch=16, col="red")
```

scatterplot of IMDB score and runtime