> **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

> library(readxl)

> DATA<-read\_excel("C:/Users/DELL/Downloads/CameraRoll/Documents/movie\_rating.xlx")

**#Data Exploration and Cleaning (OUTPUT)**

> **summary(DATA)**

Title Year Summary Short Summary

Length:3886 Min. :2000 Length:3886 Length:3886

Class :character 1st Qu.:2009 Class :character Class :character

Mode :character Median :2013 Mode :character Mode :character

Mean :2012

3rd Qu.:2016

Max. :2018

IMDB ID Runtime YouTube Trailer Rating

Length:3886 Min. : 0.0 Length:3886 Min. :1.700

Class :character 1st Qu.: 91.0 Class :character 1st Qu.:6.100

Mode :character Median :102.0 Mode :character Median :6.600

Mean :100.4 Mean :6.559

3rd Qu.:115.0 3rd Qu.:7.100

Max. :338.0 Max. :9.500

Movie Poster Director Writers Cast

Length:3886 Length:3886 Length:3886 Length:3886

Class :character Class :character Class :character Class :character

Mode :character Mode :character Mode :character Mode :character

> **head(DATA)**

# A tibble: 6 x 12

Title Year Summary `Short Summary` `IMDB ID` Runtime `YouTube Trailer` Rating

<chr> <dbl> <chr> <chr> <chr> <dbl> <chr> <dbl>

1 Patt~ 2017 "Patto~ Patton Oswalt,~ tt7026230 66 4hZi5QaMBFc 7.4

2 New ~ 2005 "A rec~ A recovering a~ tt0436629 75 jwD04NsnLLg 7.9

3 Mick~ 2001 "After~ Mickey and all~ tt0300195 65 uCKwHHftrU4 6.8

4 Mick~ 2001 "The v~ The villains f~ tt0329374 0 JA03ciYt-Ek 6.6

5 And ~ 2017 "In th~ In the cruel w~ tt2018111 99 8CdIiD6-iF0 7.6

6 An E~ 2000 "It's ~ Max goes to co~ tt0208185 79 H8oSvldAGfg 6.4

# i 4 more variables: `Movie Poster` <chr>, Director <chr>, Writers <chr>,

# Cast <chr>

**#DIMENSIONS**

> dim(DATA)

[1] 3886 12

> nrow(DATA)

[1] 3886

> ncol(DATA)

[1] 12

> **colnames(DATA)**

[1] "Title" "Year" "Summary" "Short Summary"

[5] "IMDB ID" "Runtime" "YouTube Trailer" "Rating"

[9] "Movie Poster" "Director" "Writers" "Cast"

> **summary(DATA$Rating)**

Min. 1st Qu. Median Mean 3rd Qu. Max.

1.700 6.100 6.600 6.559 7.100 9.500

> **str(DATA)**

tibble [3,886 x 12] (S3: tbl\_df/tbl/data.frame)

$ Title : chr [1:3886] "Patton Oswalt: Annihilation" "New York Doll" "Mickey's Magical Christmas: Snowed in at the House of Mouse" "Mickey's House of Villains" ...

$ Year : num [1:3886] 2017 2005 2001 2001 2017 ...

$ Summary : chr [1:3886] "Patton Oswald, despite a personal tragedy, produces his best standup yet. Focusing on the tribulations of the T"| \_\_truncated\_\_ "A recovering alcoholic and recently converted Mormon, Arthur \"Killer\" Kane, of the rock band The New York Dol"| \_\_truncated\_\_ "After everyone is snowed in at the House of Mouse, Mickey suggests they throw their own Christmas party. Everyo"| \_\_truncated\_\_ "The villains from the popular animated Disney films are gathered at the House of Mouse with plans to take over."| \_\_truncated\_\_ ...

$ Short Summary : chr [1:3886] "Patton Oswalt, despite a personal tragedy, produces his best standup yet. Focusing on the tribulations of the T"| \_\_truncated\_\_ "A recovering alcoholic and recently converted Mormon, Arthur &quot;Killer&quot; Kane, of the rock band The New "| \_\_truncated\_\_ "Mickey and all his friends hold their own Christmas party at the House of Mouse, after being snowed in." "The villains from the popular animated Disney films are gathered at the House of Mouse with plans to take over."| \_\_truncated\_\_ ...

$ IMDB ID : chr [1:3886] "tt7026230" "tt0436629" "tt0300195" "tt0329374" ...

$ Runtime : num [1:3886] 66 75 65 0 99 79 95 91 91 107 ...

$ YouTube Trailer: chr [1:3886] "4hZi5QaMBFc" "jwD04NsnLLg" "uCKwHHftrU4" "JA03ciYt-Ek" ...

$ Rating : num [1:3886] 7.4 7.9 6.8 6.6 7.6 6.4 6.6 7.2 8.1 7.4 ...

$ Movie Poster : chr [1:3886] "https://hydramovies.com/wp-content/uploads/2018/04/Patton-Oswalt-Annihilation-Movie-Poster.jpg" "https://hydramovies.com/wp-content/uploads/2018/04/New-York-Doll-Movie-Poster.jpg" "https://hydramovies.com/wp-content/uploads/2018/04/Mickeys-Magical-Christmas-Snowed-in-at-the-House-of-Mouse-Movie-Poster.jpg" "https://hydramovies.com/wp-content/uploads/2018/04/Mickeys-House-of-Villains-Movie-Poster.jpg" ...

$ Director : chr [1:3886] "Bobcat Goldthwait" "Greg Whiteley" "Tony Craig" "Jamie Mitchell" ...

$ Writers : chr [1:3886] "Patton Oswalt" "Arthur Kane" "Thomas Hart" "Thomas Hart" ...

$ Cast : chr [1:3886] "Patton Oswalt" "Sylvain Sylvain" "Carlos Alazraqui|Wayne Allwine" "Tony Anselmo|Wayne Allwine" ...

> **DATA%>%count(Rating)**

# A tibble: 72 x 2

Rating n

<dbl> <int>

1 1.7 2

2 2 1

3 2.2 1

4 2.3 1

5 2.4 2

6 2.5 3

7 2.6 1

8 2.7 2

9 2.8 2

10 2.9 1

# i 62 more rows

# i Use `print(n = ...)` to see more rows

> **DATA%>%count(Runtime)**

# A tibble: 145 x 2

Runtime n

<dbl> <int>

1 0 190

2 3 1

3 5 1

4 6 1

5 8 1

6 20 1

7 22 1

8 26 2

9 27 2

10 30 2

# i 135 more rows

# i Use `print(n = ...)` to see more rows

> **DATA%>%glimpse()**

Rows: 3,886

Columns: 12

$ Title <chr> "Patton Oswalt: Annihilation", "New York Doll", "Mic~

$ Year <dbl> 2017, 2005, 2001, 2001, 2017, 2000, 2018, 2007, 2017~

$ Summary <chr> "Patton Oswald, despite a personal tragedy, produces~

$ `Short Summary` <chr> "Patton Oswalt, despite a personal tragedy, produces~

$ `IMDB ID` <chr> "tt7026230", "tt0436629", "tt0300195", "tt0329374", ~

$ Runtime <dbl> 66, 75, 65, 0, 99, 79, 95, 91, 91, 107, 108, 0, 58, ~

$ `YouTube Trailer` <chr> "4hZi5QaMBFc", "jwD04NsnLLg", "uCKwHHftrU4", "JA03ci~

$ Rating <dbl> 7.4, 7.9, 6.8, 6.6, 7.6, 6.4, 6.6, 7.2, 8.1, 7.4, 6.~

$ `Movie Poster` <chr> "https://hydramovies.com/wp-content/uploads/2018/04/~

$ Director <chr> "Bobcat Goldthwait", "Greg Whiteley", "Tony Craig", ~

$ Writers <chr> "Patton Oswalt", "Arthur Kane", "Thomas Hart", "Thom~

$ Cast <chr> "Patton Oswalt", "Sylvain Sylvain", "Carlos Alazraqu~