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```
%%capture
!pip install rpy2==3.5.1
```

```
%load_ext rpy2.ipython
```

```
from google.colab import drive
drive.mount('/content/drive', force_remount=True)
```

Mounted at /content/drive

```
%%R
library(readr)
library(magrittr)
library(dplyr)
```

WARNING:rpy2.rinterface_lib.callbacks:R[write to console]:
Attaching package: 'dplyr'

WARNING:rpy2.rinterface_lib.callbacks:R[write to console]: The following objects are masked from 'package:dplyr':

filter, lag

WARNING:rpy2.rinterface_lib.callbacks:R[write to console]: The following objects are masked from 'package:stats':

intersect, setdiff, setequal, union

```
%%R
datos <- read.csv("drive/MyDrive/Tecmilenio/Big Data/movies.csv")
```

▼ 9. Top 10 de las compañías con más películas producidas

```
%%R
colnames(datos)
```

```
[1] "name"      "rating"  "genre"    "year"     "released" "score"
[7] "votes"     "director" "writer"   "star"     "country"  "budget"
[13] "gross"     "company" "runtime"
```

```
%%R
```

```
datos %>%
```

```
group_by(company) %>%
```

```
summarize(películas_producidas = n()) %>%
```

```
arrange(desc(películas_producidas)) %>%
```

```
print(n=10)
```

```
# A tibble: 2,386 × 2
  company                películas_producidas
  <chr>                  <int>
1 Universal Pictures      377
2 Warner Bros.           334
3 Columbia Pictures      332
4 Paramount Pictures     320
5 Twentieth Century Fox  240
6 New Line Cinema        174
7 Touchstone Pictures    132
8 Metro-Goldwyn-Mayer (MGM) 125
9 Walt Disney Pictures    123
10 TriStar Pictures       94
# i 2,376 more rows
# i Use `print(n = ...)` to see more rows
```

▼ 10. Película con el menor y película la mayor duración

```
%%R
```

```
datos %>%
```

```
select(name, runtime) %>%
```

```
arrange(desc(runtime)) %>%
```

```
head(n=1) -> mayorDuracion
```

```
datos %>%
```

```
select(name, runtime) %>%
```

```
filter(!is.na(runtime)) %>%
```

```
arrange(desc(runtime)) %>%
```

```
tail(n=1) -> menorDuracion
```

```
c(mayorDuracion,menorDuracion)
```

```
$name
```

```
[1] "The Best of Youth"
```

```
$runtime
```

```
[1] 366
```

```
$name
```

```
[1] "The Business of Show Business"
```

```
$runtime
```

```
[1] 55
```

▼ 11. Top 3 de escritores con más trabajos en el siglo XX

```
%%R
```

```
colnames(datos)
```

```
[1] "name"      "rating"    "genre"     "year"      "released"  "score"
[7] "votes"     "director"  "writer"    "star"      "country"   "budget"
[13] "gross"     "company"   "runtime"
```

```
%%R
```

```
datos %>%
```

```
filter(year <= 2000) %>%
```

```
group_by(writer) %>%
```

```
summarize(trabajos = n()) %>%
```

```
arrange(desc(trabajos)) %>%
```

```
head(3)
```

```
# A tibble: 3 × 2
  writer      trabajos
  <chr>      <int>
1 Stephen King      26
2 John Hughes      24
3 Woody Allen      21
```

▼ 12. Top 3 de directores con más trabajos en tu año de nacimiento

```
%%R
```

```
datos %>%
```

```
filter(year == 2002) %>%
```

```
group_by(director) %>%
```

```
summarize(trabajos = n()) %>%
```

```
arrange(desc(trabajos)) %>%
```

```
head(3)
```

```
# A tibble: 3 × 2
  director      trabajos
  <chr>      <int>
1 Barry Sonnenfeld      2
2 Charles Stone III      2
3 Joel Schumacher      2
```

▼ 13. Top 10 de los mejores géneros de películas basados en su Score

```
%%R
datos %>%
group_by(genre) %>%
summarize(puntuacion = mean(score)) %>%
arrange(desc(puntuacion)) %>%
print(n=10)

# A tibble: 19 × 2
  genre      puntuacion
  <chr>      <dbl>
1 History      8.3
2 Musical      8.05
3 Music        7.2
4 Biography    7.03
5 Animation    6.77
6 Crime        6.67
7 Mystery      6.66
8 Romance      6.41
9 Family       6.36
10 Adventure    6.29
# i 9 more rows
# i Use `print(n = ...)` to see more rows
```

▼ 14. ¿Cuántas películas se estrenaron en tu fecha de cumpleaños?

```
%%R
datos %>%
filter(grepl("October 2", released)) %>%
count()

      n
1 264
```

▼ 15. Cantidad de películas donde el escritor y el director son la misma persona

```
%%R
datos %>%
filter(writer == director) %>%
count()

      n
1 2164
```

16. Cantidad de películas donde el protagonista y el director son la misma persona

```
%%R
datos %>%
filter(star == director) %>%
count()
```

```
      n
1 205
```

17. Top 10 de directores que han sido escritores durante más películas

```
%%R
datos %>%
filter(director == writer) %>%
group_by(director) %>%
summarize(peliculas = n()) %>%
arrange(desc(peliculas)) %>%
print(n=10)
```

```
# A tibble: 1,233 × 2
  director      peliculas
  <chr>         <int>
1 Woody Allen      37
2 Pedro Almodóvar  13
3 Jim Jarmusch     11
4 Lars von Trier   11
5 M. Night Shyamalan 11
6 Kevin Smith     10
7 Richard Linklater 10
8 Tyler Perry      10
9 Luc Besson        9
10 Quentin Tarantino 9
# i 1,223 more rows
# i Use `print(n = ...)` to see more rows
```

18. Actor con más películas protagonizadas de tu género favorito

```
%%R
datos %>%
group_by(genre) %>%
summarize(cantidad = n()) %>%
print(n=10)
```

```
# A tibble: 19 × 2
  genre      cantidad
  <chr>      <int>
1 Action      1705
2 Adventure    427
3 Animation    338
4 Biography    443
5 Comedy      2245
6 Crime        551
7 Drama       1518
8 Family       11
9 Fantasy      44
10 History      1
# i 9 more rows
# i Use `print(n = ...)` to see more rows
```

```
%%R
```

```
datos %>%
```

```
filter(genre == "Action") %>%
```

```
group_by(star) %>%
```

```
summarize(peliculas = n()) %>%
```

```
arrange(desc(peliculas)) %>%
```

```
print(n=3)
```

```
# A tibble: 757 × 2
  star      peliculas
  <chr>      <int>
1 Sylvester Stallone      25
2 Arnold Schwarzenegger   23
3 Jackie Chan             22
# i 754 more rows
# i Use `print(n = ...)` to see more rows
```