ACTIVIDAD 05 - LIBRERÍA PANDAS

```
's [1] import pandas as pd import numpy as np
```

Entregar: Archivo PDF de la actividad, así como el archivo .ipynb en tu repositorio. Nota: Recuerda habrá una penalización de 50 puntos si la actividad fue entregada fuera de la fecha límite.

1. Subir el archivo netflix_titles.csv que se encuentra en el repositorio de la clase y cargalos en un Dataframe.

```
from google.colab import files

uploaded = files.upload()

for fn in uploaded.keys():
    print('User uploaded file "{name}" with length {length} bytes'.format(name=fn, length=len(uploaded[fn])))

Elegir archivos netflix_titles.csv
```

• netflix_titles.csv(text/csv) - 3000491 bytes, last modified: 21/3/2023 - 100% done Saving netflix_titles.csv to netflix_titles (2).csv
User uploaded file "netflix_titles.csv" with length 3000491 bytes

```
[4] df = pd.read_csv('netflix_titles.csv')2. Desplegar las primeras 5 líneas del DataFrame.
```

											nead(5)	5] df
description	listed_in	duration	rating	release_year	date_added	country	cast	director	title	type	show_id	
n a future where the elite inhabit an island	International TV Shows, TV Dramas, TV Sci-Fi &	4 Seasons	TV-MA	2020	August 14, 2020	Brazil	João Miguel, Bianca Comparato, Michel Gomes, R	NaN	3%	TV Show	s1	0
After a devastating earthquake hits Mexico Cit	Dramas, International Movies	93 min	TV-MA	2016	December 23, 2016	Mexico	Demián Bichir, Héctor Bonilla, Oscar Serrano,	Jorge Michel Grau	7:19	Movie	s2	1
When an army recruit is found dead, his fellow	Horror Movies, International Movies	78 min	R	2011	December 20, 2018	Singapore	Tedd Chan, Stella Chung, Henley Hii, Lawrence	Gilbert Chan	23:59	Movie	s3	2
In a postapocalyptic world, rag- doll robots hi	Action & Adventure, Independent Movies, Sci-Fi	80 min	PG-13	2009	November 16, 2017	United States	Elijah Wood, John C. Reilly, Jennifer Connelly	Shane Acker	9	Movie	s4	3
A brilliant group of students become card-coun	Dramas	123 min	PG-13	2008	January 1, 2020	United States	Jim Sturgess, Kevin Spacey, Kate Bosworth, Aar	Robert Luketic	21	Movie	s5	4

3. Implementa una función que despliegue el primer renglón de un DataFrame.

```
[6] def the_first(DataFrame):
    a = DataFrame[:1]
    return a

the_first(df)

show_id type title director cast country date_added release_year rating duration listed_in description

0 s1 TV Show_s NaN João Miguel, Blanca Comparato, Michel Gomes, R... Brazil August 14, 2020 TV-MA Seasons TV ScI-FI &... In a future where the elite inhabit an island ...
```

4. Implementa una función que regrese el número de registros en el DataFrame

%

```
[7] def row_number(DataFrame):
    n = len(DataFrame)
    return n

row_number(df)

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```

5. Implementa una función que despliega las películas con un release_year determminado.

```
[8] def released_year(year):
    date = df[df.release_year ==year]
    return date
        year_query = 2020
released_year(year_query)
```

	show_id	type	title	director	cast	country	date_added	release_year	rating	duration	listed_in	description
0	s1	TV Show	3%	NaN	João Miguel, Bianca Comparato, Michel Gomes, R	Brazil	August 14, 2020	2020	TV-MA	4 Seasons	International TV Shows, TV Dramas, TV Sci-Fi &	In a future where the elite inhabit an island
24	s25	TV Show	SAINT SEIYA: Knights of the Zodiac	NaN	Bryson Baugus, Emily Neves, Blake Shepard, Pat	Japan	January 23, 2020	2020	TV-14	2 Seasons	Anime Series, International TV Shows	Seiya and the Knights of the Zodiac rise again
26	s27	TV Show	(Un)Well	NaN	NaN	United States	August 12, 2020	2020	TV-MA	1 Season	Reality TV	This docuseries takes a deep dive into the luc
27	s28	Movie	#Alive	Cho II	Yoo Ah-in, Park Shin-hye	South Korea	September 8, 2020	2020	TV-MA	99 min	Horror Movies, International Movies, Thrillers	As a grisly virus rampages a city, a lone man
29	s30	TV Show	#blackAF	NaN	Kenya Barris, Rashida Jones, Iman Benson, Genn	United States	April 17, 2020	2020	TV-MA	1 Season	TV Comedies	Kenya Barris and his family navigate relations

6. Implementa una función que despliegue las películas que son de un país determinado.

```
[9] def origin_country(country):
    origin = df[df.country == country]
    return origin
       country_query = 'Mexico'
origin_country(country_query)
```

	show_id	type	title	director	cast	country	date_added	release_year	rating	duration	listed_in	description
1	s2	Movie	7:19	Jorge Michel Grau	Demián Bichir, Héctor Bonilla, Oscar Serrano, 	Mexico	December 23, 2016	2016	TV-MA	93 min	Dramas, International Movies	After a devastating earthquake hits Mexico Cit
12	s13	TV Show	1994	Diego Enrique Osorno	NaN	Mexico	May 17, 2019	2019	TV-MA	1 Season	Crime TV Shows, Docuseries, International TV S	Archival video and new interviews examine Mexi
292	s293	Movie	Acapulco La vida va	Alfonso Serrano Maturino	Patricio Castillo, Sergio Bustamante, Alejandr	Mexico	June 3, 2017	2016	TV-MA	89 min	Comedies, Dramas, International Movies	Three lifelong friends travel to Acapulco oste
370	s371	Movie	Alan Saldaña: Mi vida de pobre	Raúl Campos, Jan Suter	Alan Saldaña	Mexico	August 4, 2017	2017	TV-MA	54 min	Stand-Up Comedy	Mexican comic Alan Saldaña has fun with everyt
378	s379	Movie	Alex Fernández: The Best Comedian in the	Alex Díaz	Alex Fernández	Mexico	January 23,	2020	TV-MA	51 min	Stand-Up Comedy	Comic Alex Fernández performs his familiar

7. Crea un nuevo DataFrame que sólo contenga las columnas type, title, country y release_year.

```
Type Title Country Release_year 🥻
```



8. Despliega, cuántos tipos de producciones (type) se hicieron por país determinado (country).

```
[12] tipo = df.groupby(['type','country']).count()
```

		show_id	title	director	cast	date_added	release_year	rating	duration	listed_in	description
1	type cou	intry									
Mo	vie Argentina	34	34	34	31	34	34	34	34	34	34
	Argentina, Brazil, France, Poland, Germany, Den	mark 1	1	1	1	1	1	1	1	1	1
	Argentina, Chile	1	1	1	1	1	1	1	1	1	1
	Argentina, Chile, Peru	1	1	1	1	1	1	1	1	1	1
	Argentina, France	1	1	1	1	1	1	1	1	1	1

9. Implementa la función que genera el cuadrado de un número.

10. Usando el método apply, genera el cuadrado de todos los valores del siguiente DataFrame.

