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```
import pandas as pd
import numpy as np
```

1. Subir el archivo netflix_titles.csv y cargarlos en un DataFrame

```
!curl -0 https://raw.githubusercontent.com/Manchas2k4/tc1002S/main/datasets/netflix_titles.csv

% Total % Received % Xferd Average Speed Time Time Time Current
Dload Upload Total Spent Left Speed
100 2930k 100 2930k 0 0 7513k 0 --:--:- 7494k
```

2. Desplegar las primeras 5 líneas del DataFrame

df = pd.read_csv('netflix_titles.csv')

df.head(5)

	show_id	type	title	director	cast	country	date_added	release_year	rating	duration]
0	s1	TV Show	3%	NaN	João Miguel, Bianca Comparato, Michel Gomes, R	Brazil	August 14, 2020	2020	TV-MA	4 Seasons	In T
1	s2	Movie	7:19	Jorge Michel Grau	Demián Bichir, Héctor Bonilla, Oscar Serrano,	Mexico	December 23, 2016	2016	TV-MA	93 min	In
2	s3	Movie	23:59	Gilbert Chan	Tedd Chan, Stella Chung, Henley Hii, Lawrence	Singapore	December 20, 2018	2011	R	78 min	In
3	s4	Movie	9	Shane Acker	Elijah Wood, John C. Reilly,	United States	November 16, 2017	2009	PG-13	80 min	/ In

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

```
def the_first(x):
    y = df.head(x)
    return y
the_first(1)
```

	show_id	type	title	director	cast	country	date_added	release_year	rating	duration	li
0	s1	TV Show	3%	NaN	João Miguel, Bianca Comparato, Michel	Brazil	August 14, 2020	2020	TV-MA	4 Seasons	Inter TV TV

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

```
def row_number(df):
    y = len(df)
    return y
```

row_number(df)
7787

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

def released_year(df, year):
 determined_y = df.groupby('release_year').get_group(year)
 return determined_y

year_query = 2020
released_year(df, year_query)

	show_id	type	title	director	cast	country	date_added	release_year	rating	duratio
0	s1	TV Show	3%	NaN	João Miguel, Bianca Comparato, Michel Gomes, R	Brazil	August 14, 2020	2020	TV-MA	Seasor
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	Seasor
26	s27	TV Show	(Un)Well	NaN	NaN	United States	August 12, 2020	2020	TV-MA	1 Seasc
27	s28	Movie	#Alive	Cho II	Yoo Ah-in, Park Shin- hye	South Korea	September 8, 2020	2020	TV-MA	99 m
29	s30	TV Show	#blackAF	NaN	Kenya Barris, Rashida Jones, Iman Benson, Genn	United States	April 17, 2020	2020	TV - MA	1 Seasc
7725	s7726	TV Show	You Cannot Hide	NaN	Blanca Soto, Eduardo Noriega, Iván Sánchez, Ma	Mexico	October 1, 2020	2020	TV-MA	1 Seasc
7734	s7735	Movie	You've Got This	Salvador Espinosa	Mauricio Ochmann, Esmeralda Pimentel, Matteo G	Mexico	October 2, 2020	2020	TV-MA	112 m
7738	s7739	TV Show	Young Wallander	NaN	Adam Pålsson, Richard Dillane, Leanne Best, El	United Kingdom	September 3, 2020	2020	TV-MA	1 Seasc
7741	s7742	Movie	Your Name Engraved Herein	Liu Kuang- hui	Edward Chen, Tseng Ching-hua, Leon Dai, Jason	Taiwan	December 23, 2020	2020	TV-MA	115 m

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

```
def origin_country(df, country):
    determined_c = df.groupby('country').get_group(country)
    return determined_c

country_query = 'Mexico'
origin_country(df, country_query)
```

1	s2	Movie	7:19	Jorge Michel Grau	Demián Bichir, Héctor Bonilla, Oscar Serrano,	Mexico	December 23, 2016	2016	TV-MA	9
12	s13	TV Show	1994	Diego Enrique Osorno	NaN	Mexico	May 17, 2019	2019	TV-MA	1 Se
292	s293	Movie	Acapulco La vida va	Alfonso Serrano Maturino	Patricio Castillo, Sergio Bustamante, Alejandr	Mexico	June 3, 2017	2016	TV-MA	8
370	s371	Movie	Alan Saldaña: Mi vida de pobre	Raúl Campos, Jan Suter	Alan Saldaña	Mexico	August 4, 2017	2017	TV-MA	5
378	s379	Movie	Alex Fernández: The Best Comedian in the World	Alex Díaz	Alex Fernández	Mexico	January 23, 2020	2020	TV-MA	5
7698	s7699	TV Show	Yankee	NaN	Pablo Lyle, Ana Layevska, Leonardo Daniel, Jav	Mexico	June 14, 2019	2019	TV-MA	1 Se
7725	s7726	TV Show	You Cannot Hide	NaN	Blanca Soto, Eduardo Noriega, Iván Sánchez, Ma	Mexico	October 1, 2020	2020	TV-MA	1 Se
7734	s7735	Movie	You've Got This	Salvador Espinosa	Mauricio Ochmann, Esmeralda Pimentel, Matteo G	Mexico	October 2, 2020	2020	TV-MA	11
7773	s7774	Movie	Zoé: Panoramas	Rodrigo Guardiola, Gabriel Cruz Rivas	Sergio Acosta, Jesús Báez, Ángel Mosqueda, Rod	Mexico	November 1, 2019	2016	TV-MA	8
7779	s7780	TV Show	Zona Rosa	NaN	Manu NNa, Ana Julia Yeyé, Ray Contreras, Pablo	Mexico	November 26, 2019	2019	TV-MA	1 Se

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

ndf = pd.read_csv('netflix_titles.csv', usecols=[1,2,5,7])
ndf.head()

	type	title	country	release_year	7
0	TV Show	3%	Brazil	2020	
1	Movie	7:19	Mexico	2016	
2	Movie	23:59	Singapore	2011	
3	Movie	9	United States	2009	
4	Movie	21	United States	2008	
5	TV Show	46	Turkey	2016	

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

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

```
def square(x):
    x= x * x
    return x

square(10)
    100
```

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

```
df2 = pd.DataFrame({'A': [1,2,3,5,6], 'B':[10,20,30,40,50]})
df2
```

	Α	В	7
0	1	10	
1	2	20	
2	3	30	

3 5 40

4 6 50

df2.apply(square, axis=1)

	А	В	7
0	1	100	
1	4	400	
2	9	900	
3	25	1600	
4	36	2500	

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