```
import pandas as pd
```

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

```
df.head()
```

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description	Date_A
0	s1	TV Show	3%.	NaN	João Miguel, Bianca Comparato, Michel Gomes, Rodolfo Valente, Vaner Cordeiro, Nesi Romeiro, Luciana Souza, Juliano Cazarré, Gabriel Gracindo, Berta Zemmel	Brazil	December 21, 2020	TV-MA	4 Seasons	International TV Shows, TV Dramas, TV Sci-Fi & Fantasy	In a future where the elite inhabit an island paradise far from the crowded,	December 2
1	s2	Movie	07:19	Jorge Michel Grau	Demián Bichir, Héctor Bonilla, Oscar Serrano, Azalia Ortiz, Octavio Isaac, Carmen Beato	Mexico	December 16, 2020	R	99 min	Dramas, International Movies	After a devastating earthquake hits Mexico City, trapped survivors from all	December 1
2	s3	TV Show	23:59	Gilbert Chan	Tini Stoss, Scott Chung, Maggie Q, Steven Cheung, Tiffany Dang, Hiu Man Chiang, Alex Fong, Lam Ka Tung, Quinn Cheng, Claire Yiu	Singapore	December 15, 2020	NR	8 Episodes	International TV Shows, TV Action & Adventure, TV Dramas, TV Sci-Fi & Fantasy	When an extreme weather phenomenon unleashes a terrifying new breed of	December 1
3	s4	Movie	9	Shane Acker	Elijah Wood, John C. Reilly, Jennifer Connelly, Christopher Plummer, Martin Landau, Fred Tatasciore, Alan Oppenheimer, Tom Kenny, Laura Cay Ortiz, Crispin Glover	United States	January 1, 2020	PG-13	80 min	Cult Movies, Dramas, Independent Movies	In a post-apocalyptic world, nine mysterious ragdolls are awakened by an	December 1
4	s5	Movie	21	Robert Luketic	Jim Sturgess, Kevin Spacey, Kate Bosworth, Aaron Yoo, Liza Lapira, Laurence Fishburne, Jacob Pitts,益山武, Josh Hartnett, Charles Dance	United States	January 1, 2020	PG-13	123 min	Dramas	A brilliant group of students become card-counting partners and beat the	December 1

```
TYPE=object
```

```
df.info()
```

```
<class 'DataFrame'>
RangeIndex: 7787 entries, 0 to 7786
Data columns (total 12 columns):
 Show_Id     7787 non-null  object
 Category    7787 non-null  object
 Title       7787 non-null  object
 Director    5943 non-null  object
 Cast        7069 non-null  object
 Country     7282 non-null  object
 Release_Date7777 non-null  object
 Rating      7780 non-null  object
 Duration    7777 non-null  object
 Type        7787 non-null  object
 Description 7787 non-null  object
 Date_Added  7777 non-null  object
dtype: object
```

```
df.shape
```

```
(7787, 12)
```

```
df.dtypes
```

```
Show_Id     object
Category    object
Title       object
Director    object
Cast        object
Country     object
Release_Date object
Rating      object
Duration    object
Type        object
Description object
Date_Added  object
dtype: object
```

```
df.isnull().sum()
```

```
Show_Id       0
Category      0
Title         0
Director   1844
Cast        718
Country     505
Release_Date 10
Rating       7
Duration    10
Type         0
Description  0
Date_Added  10
dtype: int64
```

```
df.sample(5)
```

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description	Date_A
3	s4	Movie	9	Shane Acker	Elijah Wood, John C. Reilly, Jennifer Connelly, Christopher Plummer, Martin Landau, Fred Tatasciore, Alan Oppenheimer, Tom Kenny, Laura Cay Ortiz, Crispin Glover	United States	January 1, 2020	PG-13	80 min	Cult Movies, Dramas, Independent Movies	In a post-apocalyptic world, nine mysterious ragdolls are awakened by an	December 1
4	s5	Movie	21	Robert Luketic	Jim Sturgess, Kevin Spacey, Kate Bosworth, Aaron Yoo, Liza Lapira, Laurence Fishburne, Jacob Pitts, 益山武, Josh Hartnett, Charles Dance	United States	January 1, 2020	PG-13	123 min	Dramas	A brilliant group of students become card-counting partners and beat the	December 1
5	s6	TV Show	9-1-1	Ryan Murphy, Brad Falchuk, Tim Minear	Angela Bassett, Peter Krause, Connie Britton, Aaron Paul, Eric Dane, Jennifer Love Hewitt, Rockmond Dunbar, Oliver Stark, Gavin Stenhouse, Gina Torres	United States	September 24, 2018	TV-14	6 Seasons	International TV Shows, TV Action & Adventure, TV Dramas, TV Mysteries	When a disaster strikes Los Angeles, a 911 dispatcher and a firefighter	September 2
6	s7	Movie	90	Matt Osterman	Eugenio Derbez, Jacobo Dayan, Rosa María Bianchi, Mabel Cadena, Juan Ramón López Muñoz, Héctor Díaz, Fernando Becerril, Luis Gerardo Méndez, Andrea Nava, Dennis Cantú	Mexico	December 8, 2017	TV-MA	2 Seasons	Crime TV Shows, International TV Shows, TV Comedies	When a Mexican newspaper publication is threatened by a ruthless cartel,	December 8

```
df.describe()
```

```
Typeerror: Cannot convert [['TV Show' 'Movie']] to numpy.ndarray
```

```
df.tail()
```

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description	Date_A
7782	s7783	Movie	Zozo	Josef Hadad, Aleksandar Orlić	Samuel Vast, Edin Dil, Emir Hadžihafizbegović, Amar Bukvić, Birhan Eren, Selma Ajanović, Inan Temelkov	NaN	September 15, 2018	TV-MA	99 min	Dramas, International Movies, Sports Movies	Zozo, a Sarajevo soccer star who was forced to leave his war-torn homeland	September 1
7783	s7784	Movie	Zubaan	Mozez Singh	Vicky Kaushal, Sarah-Jane Dias, Raaghav Chanda, Raju Singh, Karan Soni, Chitrangda Singh, Jaideep Ahlawat	NaN	December 31, 2019	TV-MA	111 min	Dramas, International Movies, Music & Musicals	A young boy dreams of escaping his village for a life of music but must	December 3
7784	s7785	TV Show	Zumbo's Just Desserts	NaN	Adriano Zumbo, Rachel Khoo	Australia	October 31, 2020	TV-PG	1 Season	British TV Shows, Reality TV, Spanish-Language TV Shows	In this delectable competition, six of Australia's top pastry chefs	October 3
7785	s7786	Movie	Zumbo's Just Desserts	NaN	Adriano Zumbo, Rachel Khoo	Australia	October 31, 2020	TV-PG	1 Season	British TV Shows, Reality TV, Spanish-Language TV Shows	In this delectable competition, six of Australia's top pastry chefs	October 3
7786	s7787	Movie	Zuzu's Petals and Other Stories	NaN	Salma Hayek, Jeffrey Tambor, Selma Blair, Diego Luna, Alfred Molina, Natalie Morales, Santino Fontana	United States	March 1, 2020	PG-13	103 min	Dramas, Independent Movies, Romantic Movies	When Zuzu's husband dies, she must sell their beloved home and start a new life. Her friends and family offer her plenty of advice and	December 3

```
TYPE=object 12 columns
```

```
df.tail(10)
```

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description	Date_A
7777	s7778	Movie	Zoom	Peter Hewitt	Tim Allen, Courteney Cox, Chevy Chase, Rip Torn, Kevin Zegers, Spencer Breslin, Dax Shepard, Matthew Broderick, Jean Smart, Irene Molloy, Mason Lee, Michael Cera, Video Game Cameo	United States	July 1, 2017	PG	88 min	Children & Family Movies, Comedies	When former superhero Jack Shepard (Tim Allen) is forced to train the children of his old crime-fighting team, he's in for a surprise.	September 1
7778	s7779	Movie	Zoom: Academy Graduation	Peter Hewitt	Jim Rash, Cheryl Hines, Timothy Dalton, John Cena, Kevin Chapman, Rosie Perez, Tituss Burgess, Gregg Turkington, Noel Fisher, Matthew Broderick, Danny Trejo	United States	June 17, 2022	PG	92 min	Children & Family Movies, Comedies	Jack Shepard (Jim Rash) and his friends are back at Zoom Academy, where they're training the next generation of superheroes. But	June 1
7779	s7780	TV Show	Zoom: Academy Graduation	Peter Hewitt	Jim Rash, Cheryl Hines, Timothy Dalton, John Cena, Kevin Chapman, Rosie Perez, Tituss Burgess, Gregg Turkington, Noel Fisher, Matthew Broderick, Danny Trejo	United States	June 17, 2022	PG	92 min	Children & Family Movies, Comedies	Jack Shepard (Jim Rash) and his friends are back at Zoom Academy, where they're training the next generation of superheroes. But	June 1
7780	s7781	Movie	Zoot Suit	Luis Valdez	Edward James Olmos, Daniel Valdez, Tyrone Cardona, Rick Dante, Lupe Ontiveros, Sal Mineo, Tina Cassidy, Abel Woodward, Frances Fisher, Charles Aznavour, Ron Rifkin, Ray Sharkey, Tom Bower, Jeff Kober, Ed Begley Jr., Dick Wesson, Ed Begley, Sr., Jerry Tarkanian, Jerry Lewis, Jerry Lee Lewis, Ricardo Montalban, Chuck Berry, Cesar Romero, Frank Zappa, Mickey Dolenz, Mickey Rooney, Dennis Hopper, Tommy Chong, Cheech Marin, Tommy Davis, Ron Karabatsos, Sandy Koufax, Don Drysdale, Maury Wills, Willie Davis, Wilt Chamberlain, Tommy Davis, Ron Karabatsos, Sandy Koufax, Don Drysdale, Maury Wills, Willie Davis, Wilt Chamberlain	NaN	September 15, 2017	R	103 min	Cult Movies, Dramas, Independent Movies	A 1940s Los Angeles man is caught between his Mexican-American family and a gang of zoot suit-wearing hoodlums.	September 1
7781	s7782	Movie	Zozo	Josef Hadad, Aleksandar Orlić	Samuel Vast, Edin Dil, Emir Hadžihafizbegović, Amar Bukvić, Birhan Eren, Selma Ajanović, Inan Temelkov	NaN	September 15, 2018	TV-MA	99 min	Dramas, International Movies, Sports Movies	Zozo, a Sarajevo soccer star who was forced to leave his war-torn homeland	September 1
7782	s7783	Movie	Zozo	Josef Hadad, Aleksandar Orlić	Samuel Vast, Edin Dil, Emir Hadžihafizbegović, Amar Bukvić, Birhan Eren, Selma Ajanović, Inan Temelkov	NaN	September 15, 2018	TV-MA	99 min	Dramas, International Movies, Sports Movies	Zozo, a Sarajevo soccer star who was forced to leave his war-torn homeland	September 1
7783	s7784	Movie	Zubaan	Mozez Singh	Vicky Kaushal, Sarah-Jane Dias, Raaghav Chanda, Raju Singh, Karan Soni, Chitrangda Singh, Jaideep Ahlawat	NaN	December 31, 2019	TV-MA	111 min	Dramas, International Movies, Music & Musicals	A young boy dreams of escaping his village for a life of music but must	December 3
7784	s7785	TV Show	Zumbo's Just Desserts	NaN	Adriano Zumbo, Rachel Khoo	Australia	October 31, 2020	TV-PG	1 Season	British TV Shows, Reality TV, Spanish-Language TV Shows	In this delectable competition, six of Australia's top pastry chefs	October 3
7785	s7786	Movie	Zumbo's Just Desserts	NaN	Adriano Zumbo, Rachel Khoo	Australia	October 31, 2020	TV-PG	1 Season	British TV Shows, Reality TV, Spanish-Language TV Shows	In this delectable competition, six of Australia's top pastry chefs	October 3
7786	s7787	Movie	Zuzu's Petals and Other Stories	NaN	Salma Hayek, Jeffrey Tambor, Selma Blair, Diego Luna, Alfred Molina, Natalie Morales, Santino Fontana	United States	March 1, 2020	PG-13	103 min	Dramas, Independent Movies, Romantic Movies	When Zuzu's husband dies, she must sell their beloved home and start a new life. Her friends and family offer her plenty of advice and	December 3

```
TYPE=object 12 columns
```

```
df.tail(10)
```

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description	Date_A
7777	s7778	Movie	Zoom	Peter Hewitt	Tim Allen, Courteney Cox, Chevy Chase, Rip Torn, Kevin Zegers, Spencer Breslin, Dax Shepard, Matthew Broderick, Jean Smart, Irene Molloy, Mason Lee, Michael Cera, Video Game Cameo	United States	July 1, 2017	PG	88 min	Children & Family Movies, Comedies	When former superhero Jack Shepard (Tim Allen) is forced to train the children of his old crime-fighting team, he's in for a surprise.	September 1
7778	s7779	Movie	Zoom: Academy Graduation	Peter Hewitt	Jim Rash, Cheryl Hines, Timothy Dalton, John Cena, Kevin Chapman, Rosie Perez, Tituss Burgess, Gregg Turkington, Noel Fisher, Matthew Broderick, Danny Trejo	United States	June 17, 2022	PG	92 min	Children & Family Movies, Comedies	Jack Shepard (Jim Rash) and his friends are back at Zoom Academy, where they're training the next generation of superheroes. But	June 1
7779	s7780	TV Show	Zoom: Academy Graduation	Peter Hewitt	Jim Rash, Cheryl Hines, Timothy Dalton, John Cena, Kevin Chapman, Rosie Perez, Tituss Burgess, Gregg Turkington, Noel Fisher, Matthew Broderick, Danny Trejo	United States	June 17, 2022	PG	92 min	Children & Family Movies, Comedies	Jack Shepard (Jim Rash) and his friends are back at Zoom Academy, where they're training the next generation of superheroes. But	June 1
7780	s7781	Movie	Zoot Suit	Luis Valdez	Edward James Olmos, Daniel Valdez, Tyrone Cardona, Rick Dante, Lupe Ontiveros, Sal Mineo, Tina Cassidy, Abel Woodward, Frances Fisher, Charles Aznavour, Ron Rifkin, Ray Sharkey, Tom Bower, Jeff Kober, Ed Begley Jr., Dick Wesson, Ed Begley, Sr., Jerry Tarkanian, Jerry Lewis, Jerry Lee Lewis, Ricardo Montalban, Chuck Berry, Cesar Romero, Frank Zappa, Mickey Dolenz, Mickey Rooney, Dennis Hopper, Tommy Chong, Cheech Marin, Tommy Davis, Ron Karabatsos, Sandy Koufax, Don Drysdale, Maury Wills, Willie Davis, Wilt Chamberlain, Tommy Davis, Ron Karabatsos, Sandy Koufax, Don Drysdale, Maury Wills, Willie Davis, Wilt Chamberlain	NaN	September 15, 2017	R	103 min	Cult Movies, Dramas, Independent Movies	A 1940s Los Angeles man is caught between his Mexican-American family and a gang of zoot suit-wearing hoodlums.	September 1
7781	s7782	Movie	Zozo	Josef Hadad, Aleksandar Orlić	Samuel Vast, Edin Dil, Emir Hadžihafizbegović, Amar Bukvić, Birhan Eren, Selma Ajanović, Inan Temelkov	NaN	September 15, 2018	TV-MA	99 min	Dramas, International Movies, Sports Movies	Zozo, a Sarajevo soccer star who was forced to leave his war-torn homeland	September 1
7782	s7783	Movie	Zozo	Josef Hadad, Aleksandar Orlić	Samuel Vast, Edin Dil, Emir Hadžihafizbegović, Amar Bukvić, Birhan Eren, Selma Ajanović, Inan Temelkov	NaN	September 15, 2018	TV-MA	99 min	Dramas, International Movies, Sports Movies	Zozo, a Sarajevo soccer star who was forced to leave his war-torn homeland	September 1
7783	s7784	Movie	Zubaan	Mozez Singh	Vicky Kaushal, Sarah-Jane Dias, Raaghav Chanda, Raju Singh, Karan Soni, Chitrangda Singh, Jaideep Ahlawat	NaN	December 31, 2019	TV-MA	111 min	Dramas, International Movies, Music & Musicals	A young boy dreams of escaping his village for a life of music but must	December 3
7784	s7785	TV Show	Zumbo's Just Desserts	NaN	Adriano Zumbo, Rachel Khoo	Australia	October 31, 2020	TV-PG	1 Season	British TV Shows, Reality TV, Spanish-Language TV Shows	In this delectable competition, six of Australia's top pastry chefs	October 3
7785	s7786	Movie	Zumbo's Just Desserts	NaN	Adriano Zumbo, Rachel Khoo	Australia	October 31, 2020	TV-PG	1 Season	British TV Shows, Reality TV, Spanish-Language TV Shows	In this delectable competition, six of Australia's top pastry chefs	October 3
7786	s7787	Movie	Zuzu's Petals and Other Stories	NaN	Salma Hayek, Jeffrey Tambor, Selma Blair, Diego Luna, Alfred Molina, Natalie Morales, Santino Fontana	United States	March 1, 2020	PG-13	103 min	Dramas, Independent Movies, Romantic Movies	When Zuzu's husband dies, she must sell their beloved home and start a new life. Her friends and family offer her plenty of advice and	December 3

```
TYPE=object 12 columns
```

```
df.sample(5)
```

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description	Date_A
3	s4	Movie	9	Shane Acker	Elijah Wood, John C. Reilly, Jennifer Connelly, Christopher Plummer, Martin Landau, Fred Tatasciore, Alan Oppenheimer, Tom Kenny, Laura Cay Ortiz, Crispin Glover	United States	January 1, 2020	PG-13	80 min	Cult Movies, Dramas, Independent Movies	In a post-apocalyptic world, nine mysterious ragdolls are awakened by an	December 1
4	s5	Movie	21	Robert Luketic	Jim Sturgess, Kevin Spacey, Kate Bosworth, Aaron Yoo, Liza Lapira, Laurence Fishburne, Jacob Pitts, 益山武, Josh Hartnett, Charles Dance	United States	January 1, 2020	PG-13	123 min	Dramas	A brilliant group of students become card-counting partners and beat the	December 1
5	s6	TV Show	9-1-1	Ryan Murphy, Brad Falchuk, Tim Minear	Angela Bassett, Peter Krause, Connie Britton, Aaron Paul, Eric Dane, Jennifer Love Hewitt, Rockmond Dunbar, Oliver Stark, Gavin Stenhouse, Gina Torres	United States	September 24, 2018	TV-14	6 Seasons	International TV Shows, TV Action & Adventure, TV Dramas, TV Mysteries	When a disaster strikes Los Angeles, a 911 dispatcher and a firefighter	September 2
6	s7	Movie	90	Matt Osterman	Eugenio Derbez, Jacobo Dayan, Rosa María Bianchi, Mabel Cadena, Juan Ramón López Muñoz, Héctor Díaz, Fernando Becerril, Luis Gerardo Méndez, Andrea Nava, Dennis Cantú	Mexico	December 8, 2017	TV-MA	2 Seasons	Crime TV Shows, International TV Shows, TV Comedies	When a Mexican newspaper publication is threatened by a ruthless cartel,	December 8

```
df.describe()
```

```
Typeerror: Cannot convert [['TV Show' 'Movie']] to numpy.ndarray
```

```
df.shape
```

```
(7787, 12)
```

```
df.dtypes
```

```
Show_Id     object
Category    object
Title       object
Director    object
Cast        object
Country     object
Release_Date object
Rating      object
Duration    object
Type        object
Description object
Date_Added  object
dtype: object
```

```
df.isnull().sum()
```

```
Show_Id       0
Category      0
Title         0
Director   1844
Cast        718
Country     505
Release_Date 10
Rating       7
Duration    10
Type         0
Description  0
Date_Added  10
dtype: int64
```

```
df.info()
```

```
<class 'DataFrame'>
RangeIndex: 7787 entries, 0 to 7786
Data columns (total 12 columns):
 Show_Id     7787 non-null  object
 Category    7787 non-null  object
 Title       7787 non-null  object
 Director    5943 non-null  object
 Cast        7069 non-null  object
 Country     7282 non-null  object
 Release_Date7777 non-null  object
 Rating      7780 non-null  object
 Duration    7777 non-null  object
 Type        7787 non-null  object
 Description 7787 non-null  object
 Date_Added  7777 non-null  object
dtype: object
```

```
df.head()
```

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description	Date_A
0	s1	TV Show	3%.	NaN	João Miguel, Bianca Comparato, Michel Gomes, Rodolfo Valente, Vaner Cordeiro, Nesi Romeiro, Luciana Souza, Juliano Cazarré, Gabriel Gracindo, Berta Zemmel	Brazil	December 21, 2020	TV-MA	4 Seasons	International TV Shows, TV Dramas, TV Sci-Fi & Fantasy	In a future where the elite inhabit an island paradise far from the crowded,	December 2
1	s2	Movie	07:19	Jorge Michel Grau	Demián Bichir, Héctor Bonilla, Oscar Serrano, Azalia Ortiz, Octavio Isaac, Carmen Beato	Mexico	December 16, 2020	R	99 min	Dramas, International Movies	After a devastating earthquake hits Mexico City, trapped survivors from all	December 1
2	s3	TV Show	23:59	Gilbert Chan	Tini Stoss, Scott Chung, Maggie Q, Steven Cheung, Tiffany Dang, Hiu Man Chiang, Alex Fong, Lam Ka Tung, Quinn Cheng, Claire Yiu	Singapore	December 15, 2020	NR	8 Episodes	International TV Shows, TV Action & Adventure, TV Dramas, TV Sci-Fi & Fantasy	When an extreme weather phenomenon unleashes a terrifying new breed of	December 1
3	s4	Movie	9	Shane Acker	Elijah Wood, John C. Reilly, Jennifer Connelly, Christopher Plummer, Martin Landau, Fred Tatasciore, Alan Oppenheimer, Tom Kenny, Laura Cay Ortiz, Crispin Glover	United States	January 1, 2020	PG-13	80 min	Cult Movies, Dramas, Independent Movies	In a post-apocalyptic world, nine mysterious ragdolls are awakened by an	December 1
4	s5	Movie	21	Robert Luketic	Jim Sturgess, Kevin Spacey, Kate Bosworth, Aaron Yoo, Liza Lapira, Laurence Fishburne, Jacob Pitts, 益山武, Josh Hartnett, Charles Dance	United States	January 1, 2020	PG-13	123 min	Dramas	A brilliant group of students become card-counting partners and beat the	December 1

```
TYPE=object
```

```
df.describe()
```

```
Typeerror: Cannot convert [['TV Show' 'Movie']] to numpy.ndarray
```

```
df.shape
```

```
(7787, 12)
```

```
df.dtypes
```

```
Show_Id     object
Category    object
Title       object
Director    object
Cast        object
Country     object
Release_Date object
Rating      object
Duration    object
Type        object
Description object
Date_Added  object
dtype: object
```

```
df.isnull().sum()
```

```
Show_Id       0
Category      0
Title         0
Director   1844
Cast        718
Country     505
Release_Date 10
Rating       7
Duration    10
Type         0
Description  0
Date_Added  10
dtype: int64
```

```
df.info()
```

```
<class 'DataFrame'>
RangeIndex: 7787 entries, 0 to 7786
Data columns (total 12 columns):
 Show_Id     7787 non-null  object
 Category    7787 non-null  object
 Title       7787 non-null  object
 Director    5943 non-null  object
 Cast        7069 non-null  object
 Country     7282 non-null  object
 Release_Date7777 non-null  object
 Rating      7780 non-null  object
 Duration    7777 non-null  object
 Type        7787 non-null  object
 Description 7787 non-null  object
 Date_Added  7777 non-null  object
dtype: object
```

```
df.head()
```

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description	Date_A
0	s1	TV Show	3%.	NaN	João Miguel, Bianca Comparato, Michel Gomes, Rodolfo Valente, Vaner Cordeiro, Nesi Romeiro, Luciana Souza, Juliano Cazarré, Gabriel Gracindo, Berta Zemmel	Brazil	December 21, 2020	TV-MA	4 Seasons	International TV Shows, TV Dramas, TV Sci-Fi & Fantasy	In a future where the elite inhabit an island paradise far from the crowded,	December 2
1	s2	Movie	07:19	Jorge Michel Grau	Demián Bichir, Héctor Bonilla, Oscar Serrano, Azalia Ortiz, Octavio Isaac, Carmen Beato	Mexico	December 16, 2020	R	99 min	Dramas, International Movies	After a devastating earthquake hits Mexico City, trapped survivors from all	December 1
2	s3	TV Show	23:59	Gilbert Chan	Tini Stoss, Scott Chung, Maggie Q, Steven Cheung, Tiffany Dang, Hiu Man Chiang, Alex Fong, Lam Ka Tung, Quinn Cheng, Claire Yiu	Singapore	December 15, 2020	NR	8 Episodes	International TV Shows, TV Action & Adventure, TV Dramas, TV Sci-Fi & Fantasy	When an extreme weather phenomenon unleashes a terrifying new breed of	December 1
3	s4	Movie	9	Shane Acker	Elijah Wood, John C. Reilly, Jennifer Connelly, Christopher Plummer, Martin Landau, Fred Tatasciore, Alan Oppenheimer, Tom Kenny, Laura Cay Ortiz, Crispin Glover	United States	January 1, 2020	PG-13	80 min	Cult Movies, Dramas, Independent Movies	In a post-apocalyptic world, nine mysterious ragdolls are awakened by an	December 1
4	s5	Movie	21	Robert Luketic	Jim Sturgess, Kevin Spacey, Kate Bosworth, Aaron Yoo, Liza Lapira, Laurence Fishburne, Jacob Pitts, 益山武, Josh Hartnett, Charles Dance	United States	January 1, 2020	PG-13	123 min	Dramas	A brilliant group of students become card-counting partners and beat the	December 1

```
TYPE=object
```

```
df.tail(10)
```

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description	Date_A
7777	s7778	Movie	Zoom	Peter Hewitt	Tim Allen, Courteney Cox, Chevy Chase, Rip Torn, Kevin Zegers, Spencer Breslin, Dax Shepard, Matthew Broderick, Jean Smart, Irene Molloy, Mason Lee, Michael Cera, Video Game Cameo	United States	July 1, 2017	PG	88 min	Children & Family Movies, Comedies	When former superhero Jack Shepard (Tim Allen) is forced to train the children of his old crime-fighting team, he's in for a surprise.	September 1
7778	s7779	Movie	Zoom: Academy Graduation	Peter Hewitt	Jim Rash, Cheryl Hines, Timothy Dalton, John Cena, Kevin Chapman, Rosie Perez, Tituss Burgess, Gregg Turkington, Noel Fisher, Matthew Broderick, Danny Trejo	United States	June 17, 2022	PG	92 min	Children & Family Movies, Comedies	Jack Shepard (Jim Rash) and his friends are back at Zoom Academy, where they're training the next generation of superheroes. But	June 1
7779	s7780	TV Show	Zoom: Academy Graduation	Peter Hewitt	Jim Rash, Cheryl Hines, Timothy Dalton, John Cena, Kevin Chapman, Rosie Perez, Tituss Burgess, Gregg Turkington, Noel Fisher, Matthew Broderick, Danny Trejo	United States	June 17, 2022	PG	92 min	Children & Family Movies, Comedies	Jack Shepard (Jim Rash) and his friends are back at Zoom Academy, where they're training the next generation of superheroes. But	June 1
7780	s7781	Movie	Zoot Suit	Luis Valdez	Edward James Olmos, Daniel Valdez, Tyrone Cardona, Rick Dante, Lupe Ontiveros, Sal Mineo, Tina Cassidy, Abel Woodward, Frances Fisher, Charles Aznavour, Ron Rifkin, Ray Sharkey, Tom Bower, Jeff Kober, Ed Begley Jr., Dick Wesson, Ed Begley, Sr., Jerry Tarkanian, Jerry Lewis, Jerry Lee Lewis, Ricardo Montalban, Chuck Berry, Cesar Romero, Frank Zappa, Mickey Dolenz, Mickey Rooney, Dennis Hopper, Tommy Chong, Cheech Marin, Tommy Davis, Ron Karabatsos, Sandy Koufax, Don Drysdale, Maury Wills, Willie Davis, Wilt Chamberlain, Tommy Davis, Ron Karabatsos, Sandy Koufax, Don Drysdale, Maury Wills, Willie Davis, Wilt Chamberlain	NaN	September 15, 2017	R	103 min	Cult Movies, Dramas, Independent Movies	A 1940s Los Angeles man is caught between his Mexican-American family and a gang of zoot suit-wearing hoodlums.	September 1
7781	s7782	Movie	Zozo	Josef Hadad, Aleksandar Orlić	Samuel Vast, Edin Dil, Emir Hadžihafizbegović, Amar Bukvić, Birhan Eren, Selma Ajanović, Inan Temelkov	NaN	September 15, 2018	TV-MA	99 min	Dramas, International Movies, Sports Movies	Zozo, a Sarajevo soccer star who was forced to leave his war-torn homeland	September 1
7782	s7783	Movie	Zozo	Josef Hadad, Aleksandar Orlić	Samuel Vast, Edin Dil, Emir Hadžihafizbegović, Amar Bukvić, Birhan Eren, Selma Ajanović, Inan Temelkov	NaN	September 15, 2018	TV-MA	99 min	Dramas, International Movies, Sports Movies	Zozo, a Sarajevo soccer star who was forced to leave his war-torn homeland	September 1
7783	s7784	Movie	Zubaan	Mozez Singh	Vicky Kaushal, Sarah-Jane Dias, Raaghav Chanda, Raju Singh, Karan Soni, Chitrangda Singh, Jaideep Ahlawat	NaN	December 31, 2019	TV-MA	111 min	Dramas, International Movies, Music & Musicals	A young boy dreams of escaping his village for a life of music but must	December 3
7784	s7785	TV Show	Zumbo's Just Desserts	NaN	Adriano Zumbo, Rachel Khoo	Australia	October 31, 2020	TV-PG	1 Season	British TV Shows, Reality TV, Spanish-Language TV Shows	In this delectable competition, six of Australia's top pastry chefs	October 3
7785	s7786	Movie	Zumbo's Just Desserts	NaN	Adriano Zumbo, Rachel Khoo	Australia	October 31, 2020	TV-PG	1 Season	British TV Shows, Reality TV, Spanish-Language TV Shows	In this delectable competition, six of Australia's top pastry chefs	October 3
7786	s7787	Movie	Zuzu's Petals and Other Stories	NaN	Salma Hayek, Jeffrey Tambor, Selma Blair, Diego Luna, Alfred Molina, Natalie Morales, Santino Fontana	United States	March 1, 2020	PG-13	103 min	Dramas, Independent Movies, Romantic Movies	When Zuzu's husband dies, she must sell their beloved home and start a new life. Her friends and family offer her plenty of advice and	December 3

```
TYPE=object 12 columns
```

```
df.sample(5)
```

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description	Date_A
3	s4	Movie	9	Shane Acker	Elijah Wood, John C. Reilly, Jennifer Connelly, Christopher Plummer, Martin Landau, Fred Tatasciore, Alan Oppenheimer, Tom Kenny, Laura Cay Ortiz, Crispin Glover	United States	January 1, 2020	PG-13	80 min	Cult Movies, Dramas, Independent Movies	In a post-apocalyptic world, nine mysterious ragdolls are awakened by an	December 1
4	s5	Movie	21	Robert Luketic	Jim Sturgess, Kevin Spacey, Kate Bosworth, Aaron Yoo, Liza Lapira, Laurence Fishburne, Jacob Pitts, 益山武, Josh Hartnett, Charles Dance	United States	January 1, 2020	PG-13	123 min	Dramas	A brilliant group of students become card-counting partners and beat the	December 1
5	s6	TV Show	9-1-1	Ryan Murphy, Brad Falchuk, Tim Minear	Angela Bassett, Peter Krause, Connie Britton, Aaron Paul, Eric Dane, Jennifer Love Hewitt, Rockmond Dunbar, Oliver Stark, Gavin Stenhouse, Gina Torres	United States	September 24, 2018	TV-14	6 Seasons	International TV Shows, TV Action & Adventure, TV Dramas, TV Mysteries	When a disaster strikes Los Angeles, a 911 dispatcher and a firefighter	September 2
6	s7	Movie	90	Matt Osterman	Eugenio Derbez, Jacobo Dayan, Rosa María Bianchi, Mabel Cadena, Juan Ramón López Muñoz, Héctor Díaz, Fernando Becerril, Luis Gerardo Méndez, Andrea Nava, Dennis Cantú	Mexico	December 8, 2017	TV-MA	2 Seasons	Crime TV Shows, International TV Shows, TV Comedies	When a Mexican newspaper publication is threatened by a ruthless cartel,	December 8

```
df.describe()
```

```
Typeerror: Cannot convert [['TV Show' 'Movie']] to numpy.ndarray
```

```
df.shape
```

```
(7787, 12)
```

```
df.dtypes
```

```
Show_Id     object
Category    object
Title       object
Director    object
Cast        object
Country     object
Release_Date object
Rating      object
Duration    object
Type        object
Description object
Date_Added  object
dtype: object
```

```
df.isnull().sum()
```

```
Show_Id       0
Category      0
Title         0
Director   1844
Cast        718
Country     505
Release_Date 10
Rating       7
Duration    10
Type         0
Description  0
Date_Added  10
dtype: int64
```

```
df.info()
```

```
<class 'DataFrame'>
RangeIndex: 7787 entries, 0 to 7786
Data columns (total 12 columns):
 Show_Id     7787 non-null  object
 Category    7787 non-null  object
 Title       7787 non-null  object
 Director    5943 non-null  object
 Cast        7069 non-null  object
 Country     7282 non-null  object
 Release_Date7777 non-null  object
 Rating      7780 non-null  object
 Duration    7777 non-null  object
 Type        7787 non-null  object
 Description 7787 non-null  object
 Date_Added  7777 non-null  object
dtype: object
```

```
df.head()
```

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description	Date_A
0	s1	TV Show	3%.	NaN	João Miguel, Bianca Comparato, Michel Gomes, Rodolfo Valente, Vaner Cordeiro, Nesi Romeiro, Luciana Souza, Juliano Cazarré, Gabriel Gracindo, Berta Zemmel	Brazil	December 21, 2020	TV-MA	4 Seasons	International TV Shows, TV Dramas, TV Sci-Fi & Fantasy	In a future where the elite inhabit an island paradise far from the crowded,	December 2
1	s2	Movie	07:19	Jorge Michel Grau	Demián Bichir, Héctor Bonilla, Oscar Serrano, Azalia Ortiz, Octavio Isaac, Carmen Beato	Mexico	December 16, 2020	R	99 min	Dramas, International Movies	After a devastating earthquake hits Mexico City, trapped survivors from all	December 1
2	s3	TV Show	23:59	Gilbert Chan	Tini Stoss, Scott Chung, Maggie Q, Steven Cheung, Tiffany Dang, Hiu Man Chiang, Alex Fong, Lam Ka Tung, Quinn Cheng, Claire Yiu	Singapore	December 15, 2020	NR	8 Episodes	International TV Shows, TV Action & Adventure, TV Dramas, TV Sci-Fi & Fantasy	When an extreme weather phenomenon unleashes a terrifying new breed of	December 1
3	s4	Movie	9	Shane Acker	Elijah Wood, John C. Reilly, Jennif