DATA ANALYST INTERNSHIP

Task 1: Data Cleaning and Preprocessing

Selected Dataset: Netflix Movies and TV Shows

Raw Data:

| | | - | - | | | | | | |
|---------|---------|-----------|-------------|--|--------------|-------------|----------------|---|------------------|
| show_id | type | title | director | cast | country | date_added | release_rating | duration listed_in description | |
| s1 | Movie | Dick Joh | r Kirsten J | ohnson | United S | 25-Sep-21 | 2020 PG-13 | 90 min Documer As her father nears the end of his life, filmmaker Kirst | en Johnson st |
| 52 | TV Show | Blood & | Water | Ama Qamata, Khosi Ngema, Gail Mabalane, Thabang Molaba, Dillo | South Af | 24-Sep-21 | 2021 TV-MA | 2 Seasons Internati After crossing paths at a party, a Cape Town teen sets | out to prove w |
| s3 | TV Show | Ganglar | Julien Le | Sami Bouajila, Tracy Gotoas, Samuel Jouy, Nabiha Akkari, Sofia Lesa | affre, Salir | 24-Sep-21 | 2021 TV-MA | 1 Season Crime TV To protect his family from a powerful drug lord, skilled | thief Mehdi |
| s4 | TV Show | Jailbirds | New Orle | eans | | 24-Sep-21 | 2021 TV-MA | 1 Season Docuseri Feuds, flirtations and toilet talk go down among the in | ncarcerated w |
| s5 | TV Show | Kota Fac | tory | Mayur More, Jitendra Kumar, Ranjan Raj, Alam Khan, Ahsaas Channa | India | 24-Sep-21 | 2021 TV-MA | 2 Seasons Internati In a city of coaching centers known to train India's | finest collegio |
| s6 | TV Show | Midnigh | t Mike Fla | Kate Siegel, Zach Gilford, Hamish Linklater, Henry Thomas, Kristin L | ehman, Sa | 24-Sep-21 | 2021 TV-MA | 1 Season TV Drama The arrival of a charismatic young priest brings gloriou | is miracles, or |
| s7 | Movie | My Little | Robert C | Vanessa Hudgens, Kimiko Glenn, James Marsden, Sofia Carson, Liza | Koshy, Ke | 24-Sep-21 | 2021 PG | 91 min Children Equestria's divided. But a bright-eyed hero believes Ex | arth Ponies, Pe |
| s8 | Movie | Sankofa | Haile Ge | Kofi Ghanaba, Oyafunmike Ogunlano, Alexandra Duah, Nick Medley | , United S | 24-Sep-21 | 1993 TV-MA | 125 min Dramas, On a photo shoot in Ghana, an American model slips I | back in time, b |
| s9 | TV Show | The Gre | a Andy De | Mel Giedroyc, Sue Perkins, Mary Berry, Paul Hollywood | United K | 24-Sep-21 | 2021 TV-14 | 9 Seasons British T\ A talented batch of amateur bakers face off in a 10-we | ek competitio |
| s10 | Movie | The Star | Theodor | Melissa McCarthy, Chris O'Dowd, Kevin Kline, Timothy Olyphant, Dav | United S | 1 24-Sep-21 | 2021 PG-13 | 104 min Comedie A woman adjusting to life after a loss contends with a | feisty bird the |
| s11 | TV Show | Vendett | a: Truth, L | ies and The Mafia | | 24-Sep-21 | 2021 TV-MA | 1 Season Crime TV Sicily boasts a bold "Anti-Mafia" coalition. But what h | appens when |
| s12 | TV Show | Bangkok | Kongkia | Sukollawat Kanarot, Sushar Manaying, Pavarit Mongkolpisit, Sahaja | k Boontha | 23-Sep-21 | 2021 TV-MA | 1 Season Crime TV Struggling to earn a living in Bangkok, a man joins an | emergency res |
| s13 | Movie | Je Suis F | Christia | Luna Wedler, Jannis NiewĶhner, Milan Peschel, Edin Hasanović, : | Germany | 23-Sep-21 | 2021 TV-MA | 127 min Dramas, After most of her family is murdered in a terrorist bom | bing, a young |
| s14 | Movie | Confess | Bruno G | Klara Castanho, Lucca Picon, Júlia Gomes, Marcus Bessa, Kiria Mali | neiros, Fe | 22-Sep-21 | 2021 TV-PG | 91 min Children When the clever but socially-awkward Tetê joins a ne | w school, she |
| s15 | TV Show | Crime St | ories: Ind | ia Detectives | | 22-Sep-21 | 2021 TV-MA | 1 Season British T\ Cameras following Bengaluru police on the job offer a | rare glimpse |
| s16 | TV Show | Dear Wh | nite Peopl | Logan Browning, Brandon P. Bell, DeRon Horton, Antoinette Roberts | United S | 22-Sep-21 | 2021 TV-MA | 4 Seasons TV Come Students of color navigate the daily slights and slippe | ry politics of I |
| s17 | Movie | Europe's | Pedro de | Echave GarcÃ-a, Pablo AzorÃ-n Williams | | 22-Sep-21 | 2020 TV-MA | 67 min Documer Declassified documents reveal the post-WWII life of 0 | Otto Skorzeny, |
| s18 | TV Show | Falsa id | entidad | Luis Ernesto Franco. Camila Sodi. Sergio Govri. Samadhi Zendeias. E | Mexico | 22-Sep-21 | 2020 TV-MA | 2 Seasons Crime TV Strangers Diego and Isabel flee their home in Mexico | and pretend to |

Variables:

1. show_id: Identify the id name of particular movie/tv show

type: Is it Movie or TV show
title: Title of movie/tv show
director: Name of Director

5. cast: who are part of acting

6. country: Release in which countries

7. date_added: date of streaming

8. release_year: release year of that movie/tv show

9. rating: Likewise of that show

10. duration: duration of show in mins/seasons11. listed_in: category of the TV show/Movie

12. description: short summary

Data Cleaning:

Tool: Excel and Power Query and Pandas

Brief Description:

• Check Null Values using filters

Findings

director: 2,634

cast: 825

country: 831 → Filled with title-cased placeholder 'Nan' (as string)

date_added: 10

rating: 4

duration: 3

Replace by Director, Cast, Country by "Unknown"

And date_added by 01/01/2020 as per release year

• Checking Duplicate Value

No Duplicate Values

- Convert Date-time in dd/mm/yyyy format using change type of power query
- Standardize the string element by proper type casting
- Uniform the Headers

Bold and standardize with first Letter Uppercase and rest of Lower case and space by "_"

Cleaned dataset View:



