SEATWORK 6.1

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CPE22S3
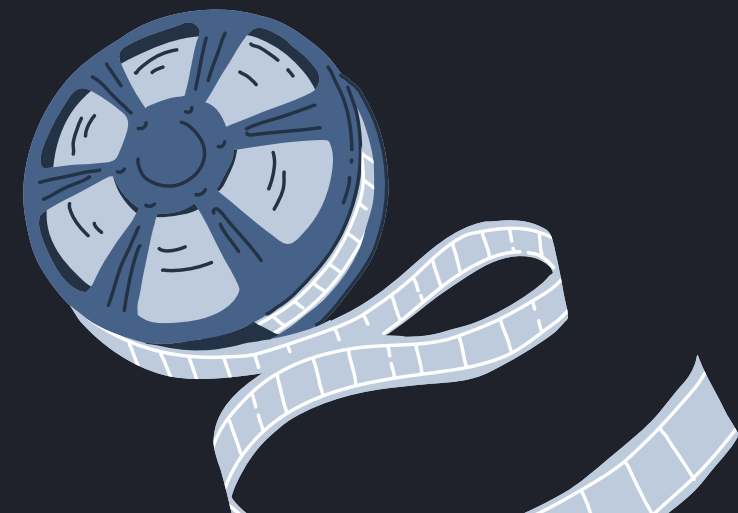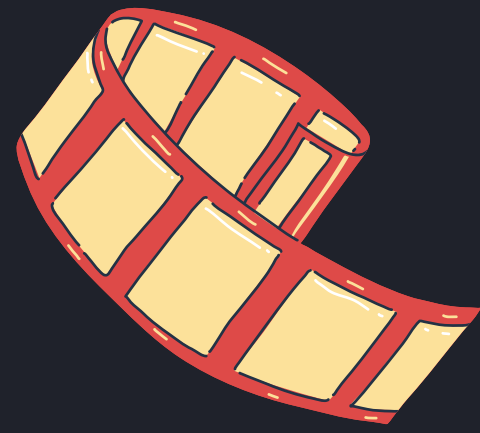
DATASET

1 **Netflix Weekly Views Data**

https://www.kaggle.com/datasets/risakashiwabara
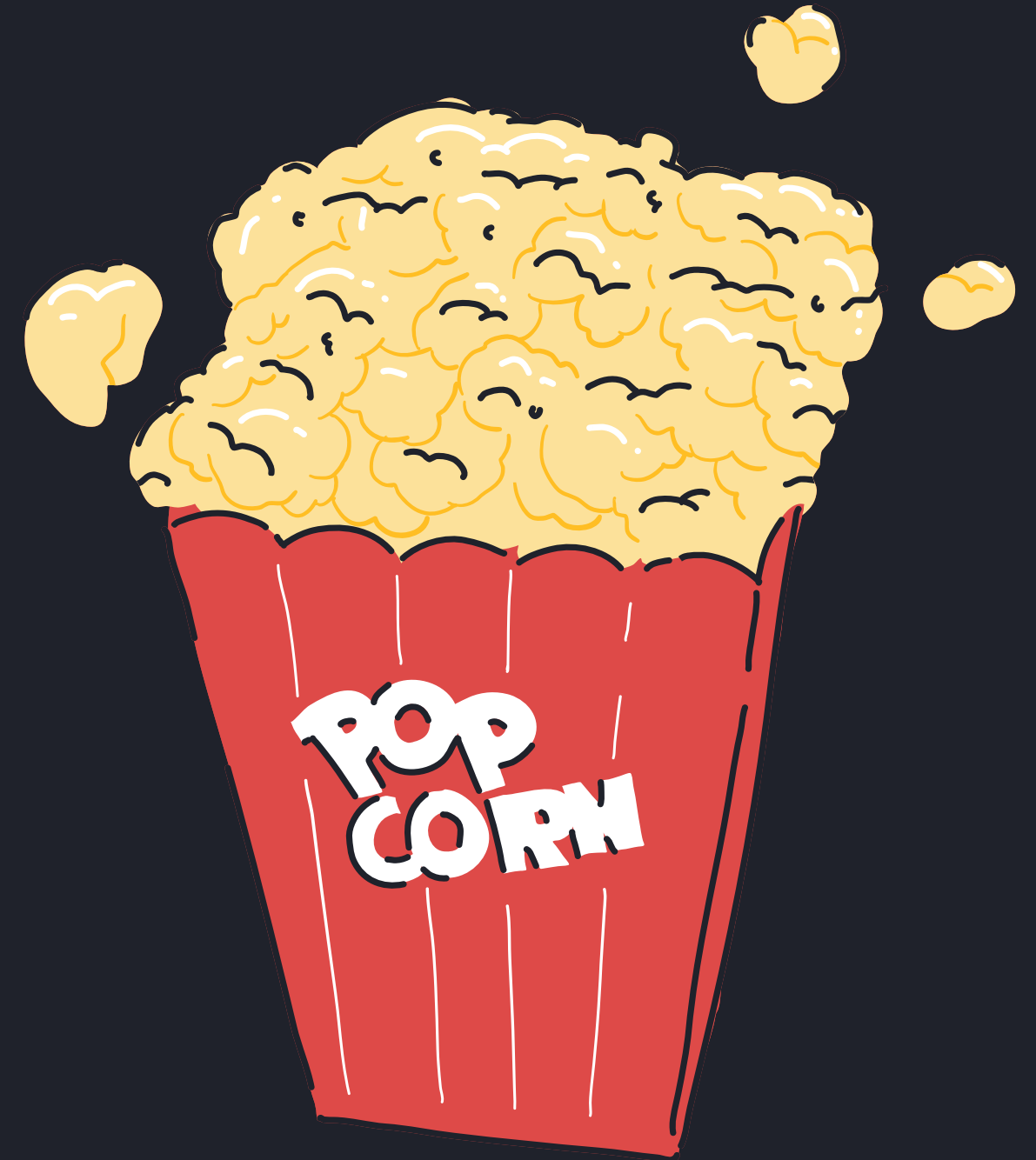/netfllix-weekly-views-data/data

2 Covers both Films and TV Shows,
English or Non-English

3 5280 Data Records (1200 Usable)

EXPLORATORY DATA ANALYSIS

Average of Subcategories

Weekly Watch Time per View

Weekly Top 1 Consistency

CHANGING COLUMN NAMES

	week	category	weekly_rank	show_title	season_title	weekly_hours_viewed	runtime	weekly_views	cumulative_weeks_in_top_10	is_staggered_launch
0	2024-01-07	Films (English)	1	The Equalizer 3	NaN	26800000	1.8167	14800000.0	1	False
1	2024-01-07	Films (English)	2	Rebel Moon ? Part One: A Child of Fire	NaN	25100000	2.2667	11100000.0	3	False
2	2024-01-07	Films (English)	3	Leave the World Behind	NaN	18700000	2.3667	7900000.0	5	False
3	2024-01-07	Films (English)	4	Exodus: Gods and Kings	NaN	18600000	2.5000	7400000.0	1	False
4	2024-01-07	Films (English)	5	Aquaman	NaN	16800000	2.3833	7000000.0	1	False

	Week	Category	WeeklyRank	ShowTitle	SeasonTitle	WeeklyViewHours	RuntimeInHours	WeeklyViews	WeeksInTop10	RollingSchedule
0	2024-01-07	Films (English)	1	The Equalizer 3	NaN	26800000	1.8167	14800000.0	1	False
1	2024-01-07	Films (English)	2	Rebel Moon ? Part One: A Child of Fire	NaN	25100000	2.2667	11100000.0	3	False
2	2024-01-07	Films (English)	3	Leave the World Behind	NaN	18700000	2.3667	7900000.0	5	False
3	2024-01-07	Films (English)	4	Exodus: Gods and Kings	NaN	18600000	2.5000	7400000.0	1	False
4	2024-01-07	Films (English)	5	Aquaman	NaN	16800000	2.3833	7000000.0	1	False

REMOVING NAN WEEKLY VIEWS

	Week	Category	WeeklyRank	ShowTitle	SeasonTitle	WeeklyViewHours	RuntimeInHours	WeeklyViews	WeeksInTop10	RollingSchedule
0	2024-01-07	Films (English)	1	The Equalizer 3	NaN	26800000	1.8167	14800000.0	1	False
1	2024-01-07	Films (English)	2	Rebel Moon ? Part One: A Child of Fire	NaN	25100000	2.2667	11100000.0	3	False
2	2024-01-07	Films (English)	3	Leave the World Behind	NaN	18700000	2.3667	7900000.0	5	False
3	2024-01-07	Films (English)	4	Exodus: Gods and Kings	NaN	18600000	2.5000	7400000.0	1	False
4	2024-01-07	Films (English)	5	Aquaman	NaN	16800000	2.3833	7000000.0	1	False
...	...	...	...	...	...	...	...	...	...	...
1195	2023-06-18	TV (Non-English)	6	Love Is Blind: Brazil	Love Is Blind: Brazil: Season 3	11400000	7.0667	1600000.0	1	False
1196	2023-06-18	TV (Non-English)	7	King the Land	King the Land: Limited Series	2400000	0.0000	1600000.0	1	True
1197	2023-06-18	TV (Non-English)	8	Tour de France: Unchained	Tour de France: Unchained: Season 1	8200000	5.5667	1500000.0	1	False
1198	2023-06-18	TV (Non-English)	9	The Playing Card Killer	The Playing Card Killer: Limited Series	3300000	2.5167	1300000.0	1	False
1199	2023-06-18	TV (Non-English)	10	The Good Bad Mother	The Good Bad Mother: Limited Series	17600000	0.0000	1200000.0	7	True

1200 rows × 10 columns

PART 1

AVERAGES OF SUBCATEGORIES

Contains basic statistics from the data

AVERAGE VALUES BETWEEN SUBCATEGORIES

AVERAGE OF VALUES FOR ENGLISH FILMS

```
WeeklyRank                  5.50
SeasonTitle                  NaN
WeeklyViewHours     13785000.00
RuntimeInHours              1.76
WeeklyViews          7544666.67
WeeksInTop10               2.45
RollingSchedule            0.00
WatchTimePerView           1.76
dtype: float64
```

AVERAGE OF VALUES FOR NON-ENGLISH FILMS

```
WeeklyRank                  5.50
SeasonTitle                  NaN
WeeklyViewHours      6308333.33
RuntimeInHours             1.87
WeeklyViews          3389333.33
WeeksInTop10               2.41
RollingSchedule            0.00
WatchTimePerView           1.87
dtype: float64
```

AVERAGE VALUES BETWEEN SUBCATEGORIES

AVERAGE OF VALUES FOR ENGLISH SHOWS

```
WeeklyRank                 5.50
WeeklyViewHours      22629000.00
RuntimeInHours             5.04
WeeklyViews          4222333.33
WeeksInTop10               2.70
RollingSchedule            0.02
WatchTimePerView           5.20
dtype: float64
```

AVERAGE OF VALUES FOR NON-ENGLISH SHOWS

```
WeeklyRank                 5.50
WeeklyViewHours      19340666.67
RuntimeInHours             5.72
WeeklyViews          2892666.67
WeeksInTop10               2.95
RollingSchedule            0.14
WatchTimePerView           6.94
dtype: float64
```

WEEKLY WATCH TIME PER VIEW

The average watch time per individual viewing
of the film/series

NEW COLUMN

```python
1  # Creating a New Column called 'Watch Time per View'
2  # It shows how much hours of the media have been
3  # watched for each individual view it has per week.
4
5  df["WatchTimePerView"] = df["WeeklyViewHours"] / df["WeeklyViews"]
6
7  watchtime = df[['Week','ShowTitle','WatchTimePerView', 'RuntimeInHours', 'WeeklyViews']]
8  watchtime_films = watchtime[(df['Category'].str.contains('Films'))]
9
10 # Comparing the Top 10 Films (regardless of sub-category) runtime
11 # and watch time per view
12 watchtime_films.sort_values('WeeklyViews', ascending=False).head(10)
```

WATCH TIME PER VIEW (TOP 10 FILMS)

	Week	ShowTitle	WatchTimePerView	RuntimeInHours	WeeklyViews
120	2023-12-17	Leave the World Behind	2.365256	2.3667	44900000.0
1160	2023-06-18	Extraction 2	2.065421	2.0667	42800000.0
1120	2023-06-25	Extraction 2	2.068720	2.0667	42200000.0
160	2023-12-10	Leave the World Behind	2.366906	2.3667	41700000.0
800	2023-08-20	Heart of Stone	2.102273	2.1000	35200000.0
240	2023-11-26	Leo	1.783237	1.7833	34600000.0
40	2023-12-31	Rebel Moon ? Part One: A Child of Fire	2.264706	2.2667	34000000.0
840	2023-08-13	Heart of Stone	2.102719	2.1000	33100000.0
530	2023-10-08	Nowhere	1.819398	1.8167	29900000.0
1000	2023-07-16	The Out-Laws	1.618881	1.6167	28600000.0

WATCH TIME PER VIEW (BOTTOM 10 FILMS)

	Week	ShowTitle	WatchTimePerView	RuntimeInHours	WeeklyViews
696	2023-09-10	Dragon	2.000000	1.9167	800000.0
619	2023-09-24	The Great Seduction	1.625000	1.6000	800000.0
697	2023-09-10	What If	1.875000	1.8667	800000.0
738	2023-09-03	Friday Night Plan	1.875000	1.8167	800000.0
739	2023-09-03	Dragon	1.875000	1.9167	800000.0
99	2023-12-24	The Rope Curse 3	1.875000	1.8167	800000.0
779	2023-08-27	Make Me Believe	1.625000	1.7333	800000.0
1019	2023-07-16	A Beautiful Life	1.625000	1.6667	800000.0
698	2023-09-10	Paradise	2.000000	1.9833	700000.0
699	2023-09-10	Pinkfong & Baby Shark's Space Adventure	1.166667	1.0833	600000.0

WATCH TIME PER VIEW (TOP 10 SHOWS)

	Week	ShowTitle	WatchTimePerView	RuntimeInHours	WeeklyViews
20	2024-01-07	Fool Me Once	6.420485	6.4167	37100000.0
30	2024-01-07	Berlin	6.565022	6.5667	22300000.0
260	2023-11-26	Squid Game: The Challenge	4.263682	4.2667	20100000.0
700	2023-09-10	ONE PIECE	7.549223	7.5667	19300000.0
740	2023-09-03	ONE PIECE	7.572973	7.5667	18500000.0
820	2023-08-20	DEPP V HEARD	2.438272	2.4333	16200000.0
741	2023-09-03	Who is Erin Carter?	5.715190	5.7167	15800000.0
670	2023-09-17	Dear Child	4.805195	4.8167	15400000.0
1100	2023-07-02	The Witcher	4.802632	4.8167	15200000.0
510	2023-10-15	Lupin	5.524823	5.5167	14100000.0

WATCH TIME PER VIEW (BOTTOM 10 SHOWS)

|	Week	ShowTitle	WatchTimePerView	RuntimeInHours	WeeklyViews
199	2023-12-10	High Tides	5.818182	5.7667	1100000.0
839	2023-08-20	Baki Hanma	5.400000	5.5333	1000000.0
1159	2023-06-25	Love Is Blind: Brazil	8.900000	8.8333	1000000.0
1158	2023-06-25	Valeria	5.500000	5.3667	1000000.0
558	2023-10-08	Song of the Bandits	8.600000	8.6333	1000000.0
559	2023-10-08	Thursday's Widows	4.400000	4.4667	1000000.0
597	2023-10-01	A Time Called You	11.900000	12.1833	1000000.0
1119	2023-07-02	Let's Get Divorced	9.444444	9.3667	900000.0
598	2023-10-01	Behind Your Touch	17.444444	0.0000	900000.0
599	2023-10-01	Class Act	6.500000	6.3167	800000.0

WEEKLY TOP 1 CONSISTENCY

Comparing every Top 1 Film and Show per
week and seeing how long they stay at Top 1

TOP 10 FILMS WITH LONGEST TOP 1 STREAKS
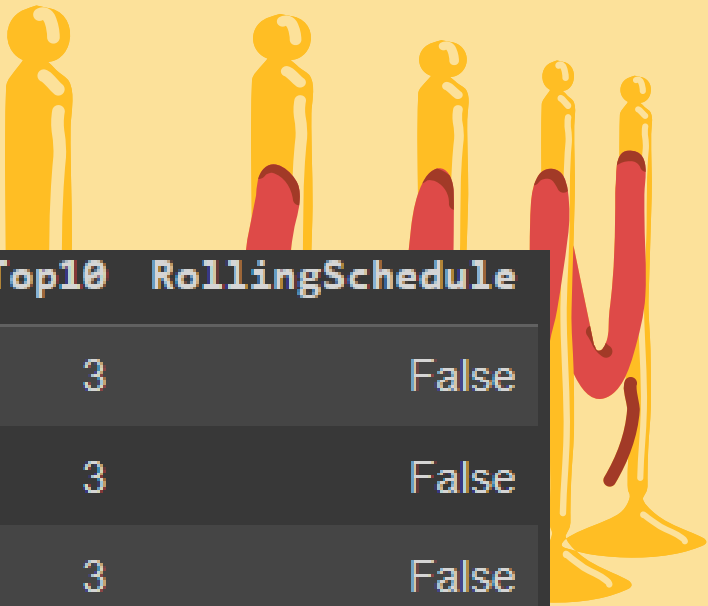
	Week	Category	ShowTitle	WeeklyRank	WeeksInTop10	RollingSchedule
480	2023-10-15	Films (English)	Reptile	1	3	False
1080	2023-07-02	Films (English)	Extraction 2	1	3	False
90	2023-12-24	Films (Non-English)	Blood Vessel	1	3	False
1050	2023-07-09	Films (Non-English)	Make Me Believe	1	3	False
680	2023-09-10	Films (English)	You Are So Not Invited to My Bat Mitzvah	1	3	False
960	2023-07-23	Films (English)	The Out-Laws	1	3	False
850	2023-08-13	Films (Non-English)	Paradise	1	3	False
770	2023-08-27	Films (Non-English)	A Life Too Short: The Isabella Nardoni Case	1	2	False
490	2023-10-15	Films (Non-English)	Ballerina	1	2	False
520	2023-10-08	Films (English)	Reptile	1	2	False

TOP 10 SHOWS WITH LONGEST TOP 1 STREAKS
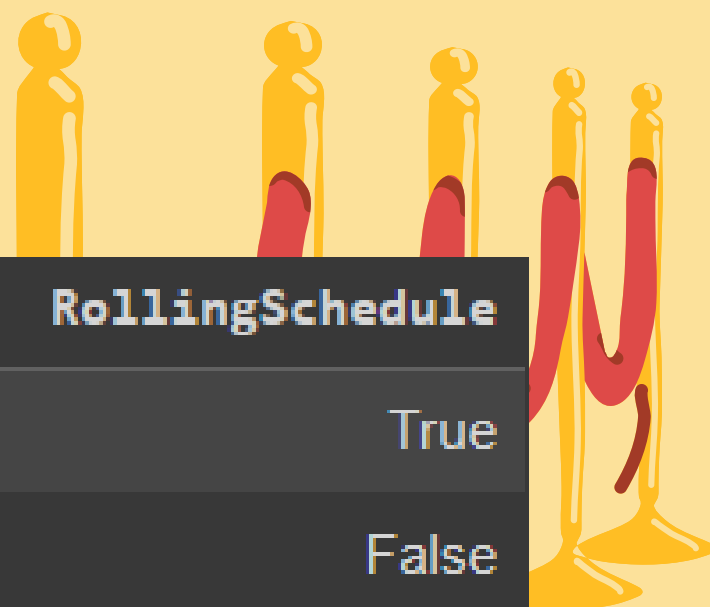
	Week	Category	ShowTitle	WeeklyRank	WeeksInTop10	RollingSchedule
990	2023-07-23	TV (Non-English)	King the Land	1	6	True
900	2023-08-06	TV (English)	The Lincoln Lawyer	1	5	False
390	2023-11-05	TV (Non-English)	Lupin	1	5	False
1030	2023-07-16	TV (Non-English)	King the Land	1	5	True
940	2023-07-30	TV (English)	The Witcher	1	5	False
590	2023-10-01	TV (Non-English)	Dear Child	1	4	False
870	2023-08-13	TV (Non-English)	A Perfect Story	1	3	False
1110	2023-07-02	TV (Non-English)	King the Land	1	3	True
630	2023-09-24	TV (Non-English)	Dear Child	1	3	False
660	2023-09-17	TV (English)	ONE PIECE	1	3	False