

# Netflix Movies & TV Shows Analysis

## Business Problems and Solutions

### 1 Count the Number of Movies vs TV Shows

```
select
type,
count(*) as 'Content Type'
from netflix
group by type
```

	type	Content Type
1	TV Show	2676
2	Movie	6131

### 2 Find the most common rating for movies and TV shows

```
select
type,
rating,
[Total Rating]
from
(
select
type,
rating,
COUNT(*) as 'Total Rating',
RANK() over(partition by type order by COUNT(*) desc) as 'Ranking'
from netflix
group by type,rating
) s1
where Ranking = 1
```

	type	rating	Total Rating
1	Movie	TV-MA	2062
2	TV Show	TV-MA	1145

### 3 List all movies released in a specific year (e.g., 2020)

```
select
*
from netflix
where release_year = 2020select
*
```

from netflix  
where release\_year = 2020

	show_id	type	title	director	cast	country	date_added	release_year
1	s1	Movie	Dick Johnson Is Dead	Kirsten Johnson	NULL	United States	2021-09-25	2020
2	s17	Movie	Europe's Most Dangerous Man: Otto Skorzeny in Sp...	Pedro de Echave Garc��a, Pablo Azor��n Williams	NULL	NULL	2021-09-22	2020
3	s18	TV Show	Falsa identidad	NULL	Luis Ernesto Franco, Camila Sodi, Sergio Goyri, Samad...	Mexico	2021-09-22	2020
4	s33	TV Show	Sex Education	NULL	Asa Butterfield, Gillian Anderson, Ncuti Gatwa, Emma M...	United Kingdom	2021-09-17	2020
5	s35	TV Show	Tayo and Little Wizards	NULL	Dami Lee, Jason Lee, Bommie Catherine Han, Jennifer ...	NULL	2021-09-17	2020
6	s48	TV Show	The Smart Money Woman	Bunmi Ajakaiye	Osas Ighodaro, Ini Dima-Okojie, Kemi Lala Akindoju, To...	NULL	2021-09-16	2020
7	s79	Movie	Tughlaq Durbār	Delhiprasad Deenadayalan	Vijay Sethupathi, Parthiban, Raashi Khanna	NULL	2021-09-11	2020
8	s85	Movie	Omio Ghetto: the Saga	JJC Skiltz, Funke Akindele	Funke Akindele, Ayo Makun, Chioma Chukwuka Akpotha...	Nigeria	2021-09-10	2020
9	s104	Movie	Shadow Parties	Yemi Amodu	Jide Kosoko, Omotola Jalade-Ekeinde, Yemi Blaq, Sola ...	NULL	2021-09-06	2020
10	s120	Movie	Here and There	JP Habac	Janine Gutierrez, JC Santos, Victor Anastacio, Yesh Burc...	NULL	2021-09-02	2020
11	s127	Movie	Shikara	Vidhu Vinod Chopra	Aadil Khan, Sadia Khateeb, Zain Khan Durrani, Priyansh...	India	2021-09-02	2020
12	s149	TV Show	HQ Barbers	Gerhard Mostert	Hakeem Kae-Kazim, Chioma Omeruah, Onkotan Adejo...	NULL	2021-09-01	2020
13	s190	TV Show	Bread Barbershop	NULL	Um Sang-hyun, Park Yoon-hee, Kang Shi-hyun, Hong B...	NULL	2021-08-28	2020
14	s228	Movie	Really Love	Angel Kristi Williams	Kofi Siriboe, Yootha Wong-Loi-Sing, Michael Ealy, Uzo A...	United States	2021-08-25	2020
15	s230	Movie	The Old Ways	Christopher Alender	Brigitte Kali Canales, Andrea Cortes, Julia Vera, Sal Lopez	United States	2021-08-25	2020
16	s251	Movie	A Foreign Land	Vernico Velasco	Paulo Costa, Yara Santos, Hana Tikhonova, Dasha Dula, Z...	NULL	2021-08-16	2020

4 Find the top 5 countries with the most content on Netflix

```
select
top 5
countries,
COUNT(*) as 'Most Content'
from
(select
*,
value as countries
from netflix cross apply string_split([country],',')) s1
group by countries
order by [Most Content] desc
```

	countries	Most Content
1	United States	3211
2	India	1008
3	United Kingdom	628
4	United States	479
5	Canada	271

5 Identify the longest movies

```
select
title,
LEFT(duration,CHARINDEX(' ',duration)) as 'Longest Movies'
from netflix
order by [Longest Movies] desc
```

	title	Longest Movies
1	InuYasha the Movie 2: The Castle Beyond the Looki...	99
2	InuYasha the Movie 3: Swords of an Honorable Ruler	99
3	Here and There	99
4	Good Luck Chuck	99
5	My Girl 2	99
6	Cousins	99
7	Rogue Warfare: Death of a Nation	99
8	Copenhagen	99
9	Black Holes   The Edge of All We Know	99
10	Ninja Assassin	99
11	Swordfish	99
12	678	99
13	Cinema Bandi	99
14	Dance of the Forty One	99
15	Monster	99
16	Dead Again in Tombstone	99

6 Find content added in the last 5 years

select

\*

from netflix

where date\_added > DATEADD(YEAR,-5,GETDATE())

	show_id	type	title	director	cast	country	date_added
1	s1	Movie	Dick Johnson Is Dead	Kirsten Johnson	NULL	United States	2021-09-25
2	s2	TV Show	Blood & Water	NULL	Ama Oamata, Khosi Ngema, Gail Mababane, Thabang ...	South Africa	2021-09-24
3	s3	TV Show	Ganglands	Julien Leclercq	Sami Bouajila, Tracy Gotoas, Samuel Jouy, Nabih Akka...	NULL	2021-09-24
4	s4	TV Show	Jailbirds New Orleans	NULL	NULL	NULL	2021-09-24
5	s5	TV Show	Kota Factory	NULL	Mayur More, Jitendra Kumar, Ranjan Raj, Alam Khan, A...	India	2021-09-24
6	s6	TV Show	Midnight Mass	Mike Flanagan	Kate Siegel, Zach Gilford, Hamish Linklater, Henry Thom...	NULL	2021-09-24
7	s7	Movie	My Little Pony: A New Generation	Robert Cullen, JosÃ© Luis Ucha	Vanessa Hudgens, Kimiko Glenn, James Marsden, Sofi...	NULL	2021-09-24
8	s8	Movie	Sankofa	Haile Gerima	Kofi Ghanaba, Oyafunmike Ogunlano, Alexandra Duah, ...	United States, Ghana, Burkina Faso, United Kingdo...	2021-09-24
9	s9	TV Show	The Great British Baking Show	Andy Devonshire	Mel Giedroyc, Sue Perkins, Mary Berry, Paul Hollywood	United Kingdom	2021-09-24
10	s10	Movie	The Starling	Theodore Melfi	Melissa McCarthy, Chris O'Dowd, Kevin Kline, Timothy O...	United States	2021-09-24
11	s11	TV Show	Vendetta: Truth, Lies and The Mafia	NULL	NULL	NULL	2021-09-24
12	s12	TV Show	Bangkok Breaking	Kongkiat Komesiri	Sukollawat Kanarot, Sushar Manaying, Pavarit Mongkol...	NULL	2021-09-23
13	s13	Movie	Je Suis Karl	Christian Schwachow	Luna Wedler, Jannis Niewöhner, Milan Peschel, Edin H...	Germany, Czech Republic	2021-09-23
14	s14	Movie	Confessions of an Invisible Girl	Bruno Garotti	Klara Castanho, Lucca Picon, Jãllia Gomes, Marcus Bes...	NULL	2021-09-22
15	s15	TV Show	Crime Stories: India Detectives	NULL	NULL	NULL	2021-09-22
16	s16	TV Show	Deadly Women	NULL	Lucy Paele, Brandon B. Bell, DeDee Hodge, Antoin...	United States	2021-09-22

7 Find all the movies/TV shows by director 'Rajiv Chilaka'!

select

show\_id,type,title,director

from netflix

where director like '%Rajiv Chilaka%'

	show_id	type	title	director
1	s407	Movie	Chhota Bheem - Neeli Pahaadi	Rajiv Chilaka
2	s408	Movie	Chhota Bheem & Ganesh	Rajiv Chilaka
3	s409	Movie	Chhota Bheem & Krishna: Mayanagari	Rajiv Chilaka
4	s410	Movie	Chhota Bheem & Krishna: Pataliputra- City of the ...	Rajiv Chilaka
5	s411	Movie	Chhota Bheem And The Broken Amulet	Rajiv Chilaka
6	s412	Movie	Chhota Bheem And The Crown of Valhalla	Rajiv Chilaka
7	s413	Movie	Chhota Bheem and the Incan Adventure	Rajiv Chilaka
8	s414	Movie	Chhota Bheem and The ShiNobi Secret	Rajiv Chilaka
9	s415	Movie	Chhota Bheem Aur Hanuman	Rajiv Chilaka
10	s416	Movie	Chhota Bheem aur Krishna	Rajiv Chilaka
11	s417	Movie	Chhota Bheem aur Krishna vs Zimbara	Rajiv Chilaka
12	s420	Movie	Chhota Bheem: Bheem vs Aliens	Rajiv Chilaka
13	s421	Movie	Chhota Bheem: Dholakpur to Kathmandu	Rajiv Chilaka
14	s422	Movie	Chhota Bheem: Dus Pe Dus	Rajiv Chilaka, Owl Mina
15	s423	Movie	Chhota Bheem: Journey to Petra	Rajiv Chilaka
16	s424	Movie	Chhota Bheem: Master of Shaolin	Rajiv Chilaka
17	s425	Movie	Chhota Bheem: The Rise of Kirmada	Rajiv Chilaka
18	s2718	Movie	Chhota Bheem and the Curse of Damyaaan	Rajiv Chilaka
19	s2738	Movie	Mighty Raju Rio Calling	Rajiv Chilaka, Anirban ...
20	s6298	Movie	Bheemayan	Rajiv Chilaka
21	s6465	Movie	Chhota Bheem Kungfu Dhamaka	Rajiv Chilaka, Binayak ...
22	s6646	Movie	Dragonkala Ka Rahasya	Rajiv Chilaka

8 List all TV shows with more than 5 seasons

select

\*

from netflix

where duration like '%Seasons%' and

cast(LEFT(duration,CHARINDEX(' ',duration)-1) as int) > 5

	show_id	type	title	director	cast	country	date_added	release_year	rating	duration	listed_in
1	s9	TV Show	The Great British Baking Show	Andy Devonshire	Mel Giedroyc, Sue Perkins, Mary Berry, Paul Hollywood	United Kingdom	2021-09-24	2021	TV-14	9 Seasons	British TV Shows, Reality T
2	s56	TV Show	Nailed It	NULL	Nicole Byer, Jacques Torres	United States	2021-09-15	2021	TV-PG	6 Seasons	Reality TV
3	s66	TV Show	Numberblocks	NULL	Beth Chalmers, David Holt, Marcel McCalla, Teresa G...	United Kingdom	2021-09-15	2021	TV-Y	6 Seasons	Kids' TV
4	s68	TV Show	Saved by the Bell	NULL	Mark-Paul Gosselaar, Tiffani Thiessen, Mario Lopez, ...	United States	2021-09-15	1994	TV-PG	9 Seasons	Kids' TV, TV Comedies
5	s83	TV Show	Lucifer	NULL	Tom Ellis, Lauren German, Kevin Alejandro, D.B. Woo...	United States	2021-09-10	2021	TV-14	6 Seasons	Crime TV Shows, TV Come
6	s275	TV Show	Grace and Frankie	NULL	Jane Fonda, Lily Tomlin, Martin Sheen, Sam Waterst...	United States	2021-08-13	2021	TV-MA	7 Seasons	TV Comedies, TV Dramas
7	s324	TV Show	30 Rock	NULL	Tina Fey, Alec Baldwin, Tracy Morgan, Jane Krakowsk...	United States	2021-08-01	2012	TV-14	7 Seasons	TV Comedies
8	s339	TV Show	Hunter X Hunter (2011)	NULL	Megumi Han, Mariya Ise, Keiji Fujiwara, Miyuki Sawa...	Japan	2021-08-01	2014	TV-14	6 Seasons	Anime Series, Internationa
9	s381	TV Show	The Flash	Glen Winter	Grant Gustin, Candice Patton, Danielle Panabaker, C...	United States	2021-07-28	2021	TV-14	7 Seasons	Crime TV Shows, TV Actor
10	s391	TV Show	The Walking Dead	NULL	Andrew Lincoln, Steven Yeun, Norman Reedus, Chan...	United States	2021-07-26	2019	TV-MA	10 Seasons	Classic & Cult TV, TV Actor
11	s526	TV Show	My Little Pony: Friendship Is Magic	NULL	Ashleigh Ball, Tabitha St. Germain, Tara Strong, Andr...	United States, Canada	2021-07-06	2018	TV-Y	8 Seasons	Kids' TV
12	s527	TV Show	Orange Is the New Black	NULL	Taylor Schilling, Kate Mulgrew, Laura Prepon, Jason ...	United States	2021-07-06	2019	TV-MA	7 Seasons	TV Comedies, TV Dramas

9 Count the number of content items in each genre

with ContentItems\_CTE(Genre,Total\_Items)

as (

select

TRIM(value) as 'Genre',

count(\*) as 'Total\_Items'

from netflix cross apply string\_split([listed\_in],',')

group by TRIM(value)

```
)
select * from ContentItems_CTE
order by Total_Items desc
```

	Genre	Total_Items
1	International Movies	2752
2	Dramas	2427
3	Comedies	1674
4	International TV Shows	1351
5	Documentaries	869
6	Action & Adventure	859
7	TV Dramas	763
8	Independent Movies	756
9	Children & Family Movies	641
10	Romantic Movies	616
11	TV Comedies	581
12	Thrillers	577
13	Crime TV Shows	470

10 finding the top 5 years with the highest number of content releases for a specific country (e.g. Australia) on Netflix.

```
declare @myCountry varchar(30)
set @myCountry = 'Australia'
select top 5
    trim(value) as 'Country',
    DATEPART(YEAR,date_added) as 'Years',
    COUNT(*) as 'AVG_Content'
from netflix cross apply string_split([country],',')
where TRIM(value) = @myCountry
group by DATEPART(YEAR,date_added),trim(value)
order by [AVG_Content] desc
```

	Country	Years	AVG_Content
1	Australia	2018	37
2	Australia	2019	33
3	Australia	2020	27
4	Australia	2017	24
5	Australia	2021	24

11 List all movies that are documentaries

```
select
*
from netflix
where LOWER(listed_in) like '%documentaries'
```

	show_id	type	title	director	cast	country
1	s2	TV Show	Blood & Water	NULL	Ama Qamata, Khosi Ngema, Gail Mabalane, Thabang ...	South Africa
2	s4	TV Show	Jailbirds New Orleans	NULL	NULL	NULL
3	s5	TV Show	Kota Factory	NULL	Mayur More, Jitendra Kumar, Ranjan Raj, Alam Khan, A...	India
4	s11	TV Show	Vendetta: Truth, Lies and The Mafia	NULL	NULL	NULL
5	s15	TV Show	Crime Stories: India Detectives	NULL	NULL	NULL
6	s16	TV Show	Dear White People	NULL	Logan Browning, Brandon P. Bell, DeRon Horton, Antoin...	United States
7	s18	TV Show	Falsa identidad	NULL	Luis Ernesto Franco, Camila Sodi, Sergio Goyri, Samadh...	Mexico
8	s20	TV Show	Jaguar	NULL	Blanca Suárez, Iván Marcos, Áscar Casas, Adrián Last...	NULL
9	s22	TV Show	Resurrection: Ertugrul	NULL	Engin Altan Dönmez, Serdar Gökhan, Hürlya Darca...	Turkey
10	s26	TV Show	Love on the Spectrum	NULL	Brooke Satchwell	Australia
11	s32	TV Show	Chicago Party Aunt	NULL	Lauren Ash, Rory O'Malley, RuPaul Charles, Jill Talley, Ik...	NULL
12	s33	TV Show	Sex Education	NULL	Asa Butterfield, Gillian Anderson, Ncuti Gatwa, Emma M...	United Kingdom
13	s34	TV Show	Squid Game	NULL	Lee Jung-jae, Park Hae-soo, Wi Ha-jun, Oh Young-soo, ...	NULL
14	s35	TV Show	Tayo and Little Wizards	NULL	Dami Lee, Jason Lee, Bommie Catherine Han, Jennifer ...	NULL
15	s38	TV Show	Angry Birds	NULL	Antti Pääkkönen, Heikki Heikkinen, Lynne Guaglione...	Finland

12 Find all content without a director  
select

\*

from netflix  
where director is null

	show_id	type	title	director	cast	country
1	s2	TV Show	Blood & Water	NULL	Ama Qamata, Khosi Ngema, Gail Mabalane, Thabang ...	South Africa
2	s4	TV Show	Jailbirds New Orleans	NULL	NULL	NULL
3	s5	TV Show	Kota Factory	NULL	Mayur More, Jitendra Kumar, Ranjan Raj, Alam Khan, A...	India
4	s11	TV Show	Vendetta: Truth, Lies and The Mafia	NULL	NULL	NULL
5	s15	TV Show	Crime Stories: India Detectives	NULL	NULL	NULL
6	s16	TV Show	Dear White People	NULL	Logan Browning, Brandon P. Bell, DeRon Horton, Antoin...	United States
7	s18	TV Show	Falsa identidad	NULL	Luis Ernesto Franco, Camila Sodi, Sergio Goyri, Samadh...	Mexico
8	s20	TV Show	Jaguar	NULL	Blanca Suárez, Iván Marcos, Áscar Casas, Adrián Last...	NULL
9	s22	TV Show	Resurrection: Ertugrul	NULL	Engin Altan Dönmez, Serdar Gökhan, Hürlya Darca...	Turkey
10	s26	TV Show	Love on the Spectrum	NULL	Brooke Satchwell	Australia
11	s32	TV Show	Chicago Party Aunt	NULL	Lauren Ash, Rory O'Malley, RuPaul Charles, Jill Talley, Ik...	NULL
12	s33	TV Show	Sex Education	NULL	Asa Butterfield, Gillian Anderson, Ncuti Gatwa, Emma M...	United Kingdom
13	s34	TV Show	Squid Game	NULL	Lee Jung-jae, Park Hae-soo, Wi Ha-jun, Oh Young-soo, ...	NULL
14	s35	TV Show	Tayo and Little Wizards	NULL	Dami Lee, Jason Lee, Bommie Catherine Han, Jennifer ...	NULL
15	s38	TV Show	Angry Birds	NULL	Antti Pääkkönen, Heikki Heikkinen, Lynne Guaglione...	Finland

13 Find how many movies actor 'Salman Khan' appeared in last 10 years!

```
WITH SalmanKhan_cte (Years, Participations) AS (
    SELECT
        release_year AS Years,
        COUNT(*) AS Participations
    FROM netflix
    WHERE release_year > YEAR(GETDATE()) - 10
    AND casts LIKE '%Salman Khan%'
    GROUP BY release_year
)
SELECT * FROM SalmanKhan_cte;
```

	Years	Participations
1	2019	1

14 Find the top 10 actors who have appeared in the highest number of movies produced in United States.

```
select top 10
trim(value) as actors,
COUNT(*) as Participations
from netflix cross apply string_split([casts],',')
where casts is not null and trim(country) like '%United States%'
group by trim(value)
order by [Participations] desc
```

	actors	Participations
1	Samuel L. Jackson	22
2	Tara Strong	22
3	Fred Tatasciore	21
4	Adam Sandler	20
5	James Franco	19
6	Nicolas Cage	19
7	Seth Rogen	18
8	Morgan Freeman	18
9	Molly Shannon	17
10	Fred Armisen	16

15 Categorize the content based on the presence of the keywords 'kill' and 'violence' in the description field. Label content containing these keywords as 'Bad' and all other content as 'Good'. Count how many items fall into each category.

```
select
Category,
COUNT(*) as Total_Items
from
(
select
case
when description like '%kill%' or description like '%violence%' then 'Bad'
else 'Good'
end as 'Category'
from netflix
) s1
group by Category
```

	Category	Total_Items
1	Good	8465
2	Bad	342