

Please note: The tables below have been shortened to show a maximum of 10 rows of results for display purpose.

Netflix Data Analysis Results Output

1. Calculate the number of TV shows vs movies

```
select type, count(*) from netflix group by type;
```

Result:

type	count(*)
Movie	6115
TV Show	2673

2. What is the most frequent content rating for movies and TV shows?

```
with content_rating_counts as (  
  select type, rating, count(*) as rating_count,  
  row_number() over (partition by type order by count(*) desc) as  
  rn  
  from netflix  
  group by type, rating  
)  
select type, rating as most_frequent_rating  
from content_rating_counts  
where rn = 1;
```

Result:

type	most_frequent_rating
Movie	TV-MA
TV Show	TV-MA

3. Find all content released in 2020 and later.

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

Result:

s1101	Movie	What Lies Below	Braden R. Duemmler	Ema Horvath, Trey Tucker, Mena Suvari, Haskiri Velazquez, Danny Corbo, Olan Montgomery, Troy Iwata	United States	April 4, 2021	2020	T N
s1123	Movie	Madam Chief Minister	Subhash Kapoor	Richa Chadda, Saurabh Shukla, Manav Kaul, Shubrajyoti Barat, Akshay Oberoi, Boloram Das, Nikhil Vijay, Raviza Chauhan	India	April 1, 2021	2020	T 1
s1148	Movie	Not a Game	Jose Gomez	Brendon Mcdonnell	United Kingdom	March 31, 2021	2020	T N
s1162	Movie	Elizabeth and Margaret: Love and Loyalty	nan	nan	United Kingdom	March 26, 2021	2020	T P
s1163	Movie	Keeping the Bees	Eylem Kaftan	Meryem Uzerli, Feyyaz Duman, Hakan Karsak, Sennur	Turkey	March 26, 2021	2020	T 1

s1101	Movie	What Lies Below	Braden R. Duemmler	Ema Horvath, Trey Tucker, Mena Suvari, Haskiri Velazquez, Danny Corbo, Olan Montgomery, Troy Iwata	United States	April 4, 2021	2020	T N
				Nogaylar, Burcu Salihoglu				
s1165	Movie	Ni de cona	Fernando Ayllon	Nathalie Sesena, Goyo Jimenez, Jose Juan Vaquero, Jordi Sanchez, Ricardo Quevedo, Carolina Noriega, Max Marieges, Kikin Fernandez, Norma Nivia, Moi Camacho	Spain	March 26, 2021	2020	T N
s1177	Movie	Any Crybabies Around?	Takuma Sato	Taiga Nakano, Riho Yoshioka, Kanichiro, Takashi Yamanaka, Kimiko Yo, Toshiro Yanagiba	Japan	March 20, 2021	2020	T N
s1178	Movie	Hospital	Brody Chu	Lin Po-Hung, Tai Bo, Jacqueline Zhu, Lei Hong, Hsu Lichi, Yoko Young, Samuel Gu, Eunice Lin	Taiwan	March 20, 2021	2020	T N

s1101	Movie	What Lies Below	Braden R. Duemmler	Ema Horvath, Trey Tucker, Mena Suvari, Haskiri Velazquez, Danny Corbo, Olan Montgomery, Troy Iwata	United States	April 4, 2021	2020	T N
s1179	Movie	Jiu Jitsu	Dimitri Logothetis	Alain Moussi, Nicolas Cage, Tony Jaa, Rick Yune, Frank Grillo, Marie Avgeropoulos, JuJu Chan, Ryan Tarran, Eddie Steeples, Raymond Pinharry, Mary Makariou	United States	March 20, 2021	2020	R
s1184	Movie	Reframe THEATER EXPERIENCE with you	Taketoshi Sado	Perfume	nan	March 19, 2021	2020	T G
s1186	Movie	Who's the Boss	Chinaza Onuzo	Funke Akindele, Blossom Chukwujekwu, Sharon Ooja, Ini Dima-Okojie, Segun Arinze, Bolly Lomo, Beverly Osu, Tayo Faniran	Nigeria	March 19, 2021	2020	T N

4. List the top 5 countries by content production

```
select country, count(*) as total_content from netflix group by country order by total_content desc limit 5;
```

Result:

country	total_content
United States	3198
India	1008
United Kingdom	628
United States	479
Canada	271

5. Find movies with a duration longer than 150 minutes

```
select * from netflix
where type = 'Movie' and duration like '%min' and
cast(substring_index(duration, ' ', 1) as unsigned) > 150;
```

Result:

show_id	type	title	director	cast	country	date_added	release_year
s4254	Movie	Black Mirror: Bandersnatch	nan	Fionn Whitehead, Will Poulter, Craig Parkinson, Alice Lowe, Asim Chaudhry	United States	December 28, 2018	2018

6. List all content released in 2021

```
select * from netflix where release_year = 2021;
```

Result:

s721	TV Show	Rhyme Time Town	Unnamed: 3	Luke Amis, Annabelle Westenholz-Smith, Maddie Evans, Jude Muir	Unnamed: 5	June 15, 2021	2021	TV-Y
s722	Movie	Rogue Warfare: Death of a Nation	Mike Gunther	Will Yun Lee, Jermaine Love, Rory Markham, Bertrand-Xavier Corbi, Katie Keene, Fernando Chien, Gina DeCesare, Michael Blalock, Stephen Lang, Chris Mulkey	United States	June 15, 2021	2020	R
s725	Movie	The Reason I Jump	Jerry Rothwell	nan	United States, United Kingdom	June 15, 2021	2021	TV-14
s726	TV Show	Elite Short Stories: Guzman Caye Rebe	nan	Miguel Bernardeau, Claudia Salas, Georgina Amoros	nan	June 14, 2021	2021	TV-MA
s728	Movie	Picture a Scientist	Ian Cheney, Sharon Shattuck	nan	United States	June 13, 2021	2020	TV-MA

s721	TV Show	Rhyme Time Town	Unnamed: 3	Luke Amis, Annabelle Westenholz-Smith, Maddie Evans, Jude Muir	Unnamed: 5	June 15, 2021	2021	TV-Y
s729	Movie	The Devil Below	Bradley Parker	Alicia Sanz, Will Patton, Jonathan Sadowski, Adan Canto, Zach Avery, Chinaza Uche, Jesse LaTourette	United States	June 13, 2021	2021	TV-MA
s730	Movie	Bling Empire - The Afterparty	nan	David Spade, London Hughes, Fortune Feimster	nan	June 12, 2021	2021	TV-MA
s731	Movie	Cobra Kai - The Afterparty	nan	David Spade, London Hughes, Fortune Feimster	nan	June 12, 2021	2021	TV-MA
s732	TV Show	Love (ft. Marriage and Divorce)	nan	Sung Hoon, Lee Tae-gon, Park Joo-mi, Lee Ga-	South Korea	June 12, 2021	2021	TV-14

s721	TV Show	Rhyme Time Town	Unnamed: 3	Luke Amis, Annabelle Westenhol-Smith, Maddie Evans, Jude Muir	Unnamed: 5	June 15, 2021	2021	TV-Y
				ryoung, Lee Min-young, Jeon No-min, Jeon Soo-kyeong, Lim Hye-young, Song Ji-in, Moon Sung-ho, Roh Joo-hyun, Kim Ameliia, Kim Eung-soo, Lee Jong-nam, Lee Hyo-chun, Jun Hye-won, Lim Han-bin, Park Seo-kyung, Shin Su-ho, Yun Seo-hyun				
s734	TV Show	LEGO Friends: The Power of Friendship	nan	Erica Mendez, Marianne Miller, Rachelle Heger, Millie O'Conner, Alexa Kahn, Doug Stone, Chris Smith, Bryce Papenbrook, Heather Downey, Chris Hackney, Ben Pronsky	Denmark	June 11, 2021	2016	TV-Y7
s735	TV Show	Lupin	nan	Omar Sy, Ludivine Sagnier, Clotilde Hesme, Nicole Garcia, Herve Pierre, Soufiane Guerrab, Antoine	France, United States	June 11, 2021	2021	TV-MA

s721	TV Show	Rhyme Time Town	Unnamed: 3	Luke Amis, Annabelle Westenholz-Smith, Maddie Evans, Jude Muir	Unnamed: 5	June 15, 2021	2021	TV-Y
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				Gouy, Fargass Assande, Vincent Londez, Shirine Boutella				
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7. Find all content where director is 'Rajiv Chilaka'

```
select * from netflix where director = 'Rajiv Chilaka';
```

Result:

show_id	type	title	director	cast	country	date_added	release_
s407	Movie	Chhota Bheem - Neeli Pahaadi	Rajiv Chilaka	Vatsal Dubey, Julie Tejwani, Rupa Bhimani, Jigna Bhardwaj, Rajesh Kava, Mousam, Swapnil	nan	July 22, 2021	2013
s408	Movie	Chhota Bheem & Ganesh	Rajiv Chilaka	Vatsal Dubey, Julie Tejwani, Rupa Bhimani, Jigna Bhardwaj, Rajesh Kava, Mousam, Swapnil	nan	July 22, 2021	2009
s409	Movie	Chhota Bheem &	Rajiv Chilaka	Vatsal Dubey,	nan	July 22, 2021	2011

show_id	type	title	director	cast	country	date_added	release_
		Krishna: Mayanagari		Julie Tejwani, Rupa Bhimani, Jigna Bhardwaj, Rajesh Kava, Mousam, Swapnil			
s410	Movie	Chhota Bheem & Krishna: Pataliputra-City of the Dead	Rajiv Chilaka	Vatsal Dubey, Julie Tejwani, Rupa Bhimani, Jigna Bhardwaj, Rajesh Kava, Arun Shekher, Sanchit Wartak	nan	July 22, 2021	2010
s411	Movie	Chhota Bheem And The Broken Amulet	Rajiv Chilaka	Vatsal Dubey, Julie Tejwani, Rupa Bhimani, Jigna Bhardwaj, Rajesh Kava, Mousam, Swapnil	India	July 22, 2021	2013
s412	Movie	Chhota Bheem And The Crown of Valhalla	Rajiv Chilaka	Vatsal Dubey, Julie Tejwani, Rupa Bhimani, Jigna Bhardwaj, Rajesh Kava, Mousam, Swapnil	nan	July 22, 2021	2013
s413	Movie	Chhota Bheem and	Rajiv Chilaka	Vatsal Dubey,	nan	July 22, 2021	2013

show_id	type	title	director	cast	country	date_added	release_
		the Incan Adventure		Julie Tejwani, Rupa Bhimani, Jigna Bhardwaj, Rajesh Kava, Mousam, Swapnil			
s414	Movie	Chhota Bheem and The ShiNobi Secret	Rajiv Chilaka	Vatsal Dubey, Julie Tejwani, Rupa Bhimani, Jigna Bhardwaj, Rajesh Kava, Mousam, Swapnil	nan	July 22, 2021	2013
s415	Movie	Chhota Bheem Aur Hanuman	Rajiv Chilaka	Vatsal Dubey, Julie Tejwani, Rupa Bhimani, Jigna Bhardwaj, Rajesh Kava, Mousam, Swapnil	nan	July 22, 2021	2012
s416	Movie	Chhota Bheem aur Krishna	Rajiv Chilaka	Vatsal Dubey, Julie Tejwani, Rupa Bhimani, Jigna Bhardwaj, Rajesh Kava, Arun Shekher, Sanchit Wartak	India	July 22, 2021	2009

8. Find all TV shows with a duration of '9 Seasons'

```
select * from netflix where type = 'TV Show' and duration = '9 Seasons';
```

Result:

s5651	TV Show	Star Trek: Deep Space Nine	Unnamed: 3	Avery Brooks, Nana Visitor, Rene Auberjonois, Cirroc Lofton, Alexander Siddig, Colm Meaney, Armin Shimerman, Terry Farrell, Michael Dorn	United States	January 1, 2017	19
s5804	TV Show	Forensic Files	nan	Peter Thomas	United States	September 1, 2016	20
s5909	TV Show	Danger Mouse: Classic Collection	nan	David Jason, Terry Scott, Edward Kelsey, Brian Trueman	United Kingdom	June 15, 2015	19
s6457	TV Show	Cheers	nan	Ted Danson, Rhea Perlman, George Wendt, John Ratzenberger, Shelley Long, Kirstie Alley, Woody Harrelson, Kelsey Grammer, Nicholas Colasanto	United States	July 1, 2017	19
s6505	TV Show	Club Friday The Series 6	nan	Puttichai Kasetsin, Kongtoranin Lalana, Preechaya Pongthananikorn	nan	March 9, 2019	20

s5651	TV Show	Star Trek: Deep Space Nine	Unnamed: 3	Avery Brooks, Nana Visitor, Rene Auberjonois, Cirroc Lofton, Alexander Siddig, Colm Meaney, Armin Shimerman, Terry Farrell, Michael Dorn	United States	January 1, 2017	19
s6506	TV Show	Club Friday The Series 7	nan	Sornram Tappituk, Amy Amika Klinprathum, Tanya Liyah, Shaun Jindachote, Four Sakolrat Wornurai, Toomtam Yuthana Puengklarng, Monchanok Saengchaipiangpen, Nat Myria Benedetti, Oil Thana Suttikamul, View Wannarot Sontichai, Pimthong Washirakom	nan	June 18, 2018	20
s6507	TV Show	Club Friday The Series 8	nan	Chutavuth Pattarakampol, Focus Jirakul, Sattaphong Phiangphor, Toni Rakkaen, Paula Taylor, Virithipa Phakdeeprasong, Pakkaramai Potranan	nan	February 2, 2019	20
s6550	TV Show	Dad's Army	nan	Arthur Lowe, John Le Mesurier, Clive Dunn, John Laurie, Arnold Ridley, Ian Lavender, James Beck, Bill Pertwee	United Kingdom	March 31, 2018	19
s6604	TV Show	Dexter	nan	Michael C. Hall, Jennifer Carpenter, David Zayas, James Remar, C.S. Lee, Lauren Velez, Desmond Harrington, Julie	United States	January 1, 2018	20

s5651	TV Show	Star Trek: Deep Space Nine	Unnamed: 3	Avery Brooks, Nana Visitor, Rene Auberjonois, Cirroc Lofton, Alexander Siddig, Colm Meaney, Armin Shimerman, Terry Farrell, Michael Dorn	United States	January 1, 2017	19
				Benz, Christina Robinson, Geoff Pierson			

s6743	TV Show	Father Brown	Ian Barber	Mark Williams, Sorchia Cusack, Nancy Carroll, Alex Price, Hugo Speer, Tom Chambers, Keith Osborn	United Kingdom	March 31, 2018	20
s6796	TV Show	Frasier	nan	Kelsey Grammer, Jane Leeves, David Hyde Pierce, Peri Gilpin, John Mahoney, Dan Butler	United States	nan	20

9. Find the top 10 genres by total content

```
select listed_in as genre, count(*) as total_content from netflix
group by listed_in order by total_content desc limit 10;
```

Result:

genre	total_content
International Movies	2748
Dramas	2419
Comedies	1670
International TV Shows	1350
Documentaries	867
Action & Adventure	857
TV Dramas	762

genre	total_content
Independent Movies	751
Children & Family Movies	641
Romantic Movies	616

10. What percentage of Canadian movies were released each year from 2014 to 2020?

```
select
    release_year,
    count(*) as canada_release,
    round(count(*) * 100.0 / sum(count(*) over ()), 2) as
pct_of_total
from netflix
where country = 'Canada' and release_year between 2014 and 2020
group by release_year
order by release_year desc;
```

Result:

release_year	canada_release	pct_of_total
2018	36	3.14
2014	11	3.13
2016	27	3
2020	26	2.73
2017	26	2.52

11. List all movies that are documentaries

```
select *
from netflix
where listed_in like '%Documentaries%';
```

Result:

s2229	Movie	Father Soldier Son	Leslye Davis, Catrin Einhorn	Unnamed: 4	United States	July 17, 2020	2020	R
s2244	Movie	We Are One	Stephane de Freitas	nan	France	July 14,	2020	TV- MA

s2229	Movie	Father Soldier Son	Leslye Davis, Catrin Einhorn	Unnamed: 4	United States	July 17, 2020	2020	R
						2020		
s2249	Movie	The Claudia Kishi Club	Sue Ding	nan	United States	July 10, 2020	2020	TV 14
s2257	Movie	Born Racer	Bryn Evans	Scott Dixon	New Zealand	July 8, 2020	2018	R
s2258	Movie	Mucho Mucho Amor: The Legend of Walter Mercado	Cristina Costantini, Kareem Tabsch	Walter Mercado	United States	July 8, 2020	2020	TV 14

s2229	Movie	Father Soldier Son	Leslye Davis, Catrin Einhorn	Unnamed: 4	United States	July 17, 2020	2020	R
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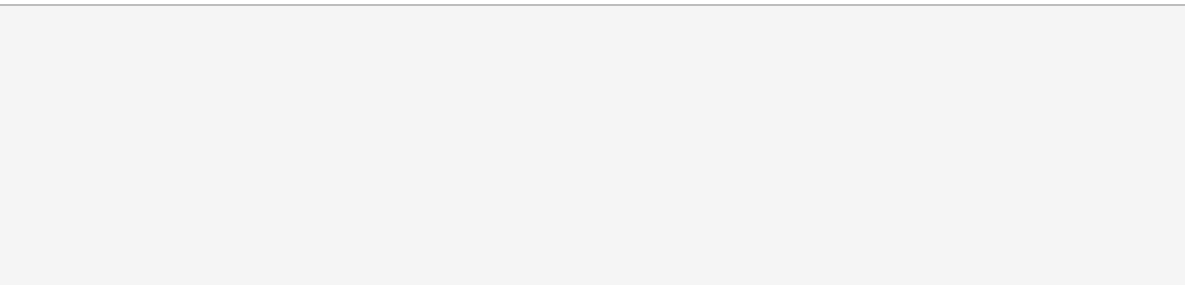
s2263	Movie	A Kid from Coney Island	Coodie, Chike	Stephon Marbury	United States, China	July 6, 2020	2019	TV MA
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s2297	Movie	I Am Not Your Negro	Raoul Peck	Samuel L. Jackson, Joey Starr	Switzerland, France, Belgium, United States	July 3, 2020	2017	PG 13
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s2305	Movie	#AnneFrank - Parallel Stories	Sabina Fedeli, Anna Migotto	Helen Mirren, Gengher Gatti	Italy	July 1, 2020	2019	TV 14
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s2311	Movie	David Foster: Off the Record	Barry Avrich	David Foster	Canada	July 1, 2020	2019	TV MA
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s2229	Movie	Father Soldier Son	Leslye Davis, Catrin Einhorn	Unnamed: 4	United States	July 17, 2020	2020	R
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s2317	Movie	The Silence of Others	Almudena Carracedo, Robert Bahar	nan	Spain, France, Canada, United States	July 1, 2020	2019	TV 14
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s2326	Movie	Skin	Daniel Effiong	Beverly Naya	Nigeria	June 28, 2020	2019	TV MA
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13. Find how many movies actor 'Adam Sandler' appeared in last 10 years

```
select *
from netflix
where cast like '%Adam Sandler%' and release_year > 2014;
```

Result:

s4483	Movie	ADAM SANDLER 100% FRESH	Steve Brill	Adam Sandler	United States	October 23, 2018	2018	
s4913	Movie	The Week Of	Robert Smigel	Adam Sandler, Chris Rock, Steve Buscemi, Rachel Dratch, Allison Strong, Roland Buck III, Katie Hartman, Chloe Himmelman, Jake Lippmann, Jim Barone, June Gable	United States	April 27, 2018	2018	
s5228	Movie	The Meyerowitz Stories (New and Selected)	Noah Baumbach	Adam Sandler, Ben Stiller, Dustin Hoffman, Elizabeth Marvel, Grace Van Patten, Emma Thompson, Candice Bergen, Rebecca Miller, Danny Flaherty, Sakina Jaffrey, Adam David Thompson	United States	October 13, 2017	2017	
s5534	Movie	Sandy Wexler	Steven Brill	Adam Sandler, Jennifer Hudson, Kevin James, Terry Crews, Rob Schneider,	United States	April 14, 2017	2017	

s4483	Movie	ADAM SANDLER 100% FRESH	Steve Brill	Adam Sandler	United States	October 23, 2018	2018	
				Colin Quinn, Nick Swardson, Lamorne Morris, Arsenio Hall, Jamie Gray Hyder				
s5847	Movie	The Do-Over	Steven Brill	Adam Sandler, David Spade, Paula Patton, Kathryn Hahn, Nick Swardson, Catherine Bell, Michael Chiklis, Natasha Leggero, Sean Astin	United States	May 27, 2016	2016	
s5880	Movie	The Ridiculous 6	Frank Coraci	Adam Sandler, Terry Crews, Jorge Garcia, Taylor Lautner, Rob Schneider, Luke Wilson, Will Forte, Steve Zahn, Harvey Keitel, Nick Nolte, Jon Lovitz, Whitney Cummings, David Spade, Danny Trejo, Nick Swardson, Blake Shelton, Vanilla Ice, Julia Jones,	United States	December 11, 2015	2015	

s4483	Movie	ADAM SANDLER 100% FRESH	Steve Brill	Adam Sandler	United States	October 23, 2018	
				Saginaw Grant, Lavell Crawford, Steve Buscemi			
s7009	Movie	Hotel Transylvania 3: Summer Vacation	Genndy Tartakovsky	Adam Sandler, Selena Gomez, Kevin James, Kathryn Hahn, Andy Samberg, David Spade, Steve Buscemi, Fran Drescher, Molly Shannon, Mel Brooks, Keegan-Michael Key	United States	January 24, 2019	

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

```

with recursive actor_split as (
  select
    show_id,
    trim(substring_index(`cast`, ',', 1)) as actor,
    substring(`cast`, length(substring_index(`cast`, ',', 1)) +
2) as rest
  from netflix
  where country = 'Canada' and `cast` is not null and `cast` !=
  ''

  union all

  select
    show_id,
    trim(substring_index(rest, ',', 1)) as actor,

```

```

        substring(rest, length(substring_index(rest, ',', 1)) + 2)
as rest
    from actor_split
    where rest != ''
)
select
    actor,
    count(*) as times
from actor_split
where actor is not null and actor != ''
group by actor
order by times desc
limit 10;

```

Result:

actor	times
Robb Wells	14
John Paul Tremblay	14
John Dunsworth	10
Mike Smith	10
Cory Doran	7
Michela Luci	7
Anna Claire Bartlam	6
Nicolas Aquiri	6
Jamie Watson	6
Eric Peterson	6

15. Categorize the content based on the presence of the keywords 'kill' and 'violence' in the description field. Label content containing these keywords as 'Parental Guidance (PG)' and all other content as 'Suitable for All (G)'. Count how many items fall into each category.

```

select category, type, count(*) as num_of_contents
from (
select *,
    case when description like '%kill' or description like
'%violence%'
        then 'Parental Guidance (PG)'
        else 'Suitable for All (G)'
    end as category
from netflix) as categorized
group by category, type
order by type;

```

Result:

category	type	num_of_contents
Suitable for All (G)	Movie	6084
Parental Guidance (PG)	Movie	31
Suitable for All (G)	TV Show	2667
Parental Guidance (PG)	TV Show	6

16. Analyze yearly content growth and changes after 2000

```

select
    release_year,
    total_releases,
    lag(total_releases) over (order by release_year) as
last_year_releases,
    round(
        (total_releases - lag(total_releases) over (order by
release_year)) * 100.0 /
        nullif(lag(total_releases) over (order by release_year),
0),
        2
    ) as pct_change
from (
    select release_year, count(*) as total_releases
    from netflix
    group by release_year
) as yearly_counts
where release_year > 2000
order by release_year;

```

Result:

release_year	total_releases	last_year_releases	pct_change
2001	45	nan	nan
2002	51	45	13.33
2003	61	51	19.61
2004	64	61	4.92
2005	80	64	25
2006	95	80	18.75
2007	88	95	-7.37
2008	136	88	54.55
2009	152	136	11.76
2010	193	152	26.97

17. Identify the most prolific directors per genre

```

with recursive genre_director as (
    select
        show_id,
        trim(substring_index(listed_in, ',', 1)) as genre,
        trim(substring_index(director, ',', 1)) as director,
        substring(listed_in, length(substring_index(listed_in, ',',
1)) + 2) as rest_genre,
        substring(director, length(substring_index(director, ',',
1)) + 2) as rest_director
    from netflix
    where director != '' and listed_in != ''

    union all

    select
        show_id,
        trim(substring_index(rest_genre, ',', 1)) as genre,
        trim(substring_index(rest_director, ',', 1)) as director,
        substring(rest_genre, length(substring_index(rest_genre,
',', 1)) + 2),
        substring(rest_director,
length(substring_index(rest_director, ',', 1)) + 2)
    from genre_director
    where rest_genre != '' and rest_director != ''
)

select genre, director, total_works
from (
    select
        genre,
        director,
        count(*) as total_works,
        row_number() over (partition by genre order by count(*))
desc) as rn
    from genre_director
    where genre != '' and director != ''
    group by genre, director
) as ranked
where rn = 1
order by total_works desc;

```

Result:

genre	director	total_works
Children & Family Movies	Rajiv Chilaka	22
Stand-Up Comedy	Raul Campos	18
Action & Adventure	Don Michael Paul	9
Comedies	Hakan Algul	8
Dramas	Hanung Bramantyo	8

genre	director	total_works
Classic Movies	Youssef Chahine	7
Documentaries	Vlad Yudin	6
Horror Movies	Rocky Soraya	6
Anime Features	Yoshikazu Yasuhiko	3
British TV Shows	Alastair Fothergill	3

18. Compare average duration of movies and TV shows by rating

```
select rating, type, avg_duration,
       max(avg_duration) over (partition by type) as
type_max_duration,
       min(avg_duration) over (partition by type) as type_min_duration
from (
    select rating, type,
           avg(cast(substring_index(duration, ' ', 1) as unsigned)) as
avg_duration
    from netflix
    where duration like '%min%'
    group by rating, type) as t
order by type, avg_duration desc;
```

Result:

rating	type	avg_duration	type_max_duration	type_min_duration
NC-17	Movie	125	125	48.1145
TV-14	Movie	110.346	125	48.1145
PG-13	Movie	108.182	125	48.1145
R	Movie	106.785	125	48.1145
UR	Movie	106.333	125	48.1145
PG	Movie	98.2517	125	48.1145
TV-MA	Movie	95.8445	125	48.1145
TV-PG	Movie	94.8519	125	48.1145
NR	Movie	94.5333	125	48.1145
G	Movie	90.2683	125	48.1145

19. Find top 3 producing countries each year after 2020

```
select release_year, country, total_content, rnk
from(
    select release_year, country, count(*) as total_content,
           dense_rank() over (partition by release_year order by count(*)
desc) as rnk
```

```

    from netflix
    where country != ''
    group by release_year, country
    ) as ranked
where rnk <= 3 and release_year >= 2000
order by release_year, total_content desc;

```

Result:

release_year	country	total_content	rnk
2000	United States	18	1
2000	India	7	2
2000	United States, Canada	2	3
2001	United States	23	1
2001	India	7	2
2001	Japan	2	3
2001	United Kingdom	2	3
2002	United States	16	1
2002	India	10	2
2002	Japan	3	3

20. Calculate the percentage of TV shows vs movies released each year after 2000

```

select release_year,
       round(100 * sum(case when type = 'Movie' then 1 else 0 end)
 / count(*), 2) as movie_pct,
       round(100 * sum(case when type = 'TV Show' then 1 else 0
end) / count(*), 2) as tvshow_pct
from netflix
where release_year > 1999
group by release_year
order by release_year;

```

Result:

release_year	movie_pct	tvshow_pct
2000	89.19	10.81
2001	88.89	11.11
2002	86.27	13.73
2003	83.61	16.39
2004	85.94	14.06
2005	83.75	16.25

release_year	movie_pct	tvshow_pct
2006	86.32	13.68
2007	84.09	15.91
2008	83.09	16.91
2009	77.63	22.37

This notebook was converted with convert.ploomber.io