

Business problems & solutions

1. count the number of movies and tv shows.

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

	type character varying (10)	count bigint
1	Movie	6131
2	TV Show	2676

2. find the most common rating for movies and tv shows.

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

	type character varying (10)	most_frequent_rating character varying (10)
1	Movie	TV-MA
2	TV Show	TV-MA

3. list all movies released in a specific year (e.g 2020)

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

	show_id character varying (10) 🔒	type character varying (10) 🔒	title character varying (150)
1	s1	Movie	Dick Johnson Is Dead
2	s17	Movie	Europe's Most Dangerous Man: Otto Skorzeny in Sp
3	s18	TV Show	Falsa identidad
4	s33	TV Show	Sex Education
5	s35	TV Show	Tayo and Little Wizards
6	s48	TV Show	The Smart Money Woman
7	s79	Movie	Tughlag Durbar
Total rows: 953 of 953			Query complete 00:00:00.159
			Ln 47, Col 1

4. find the top 5 countries with the most content on netflix.

```
select *
from
(
  select unnest(string_to_array(country, ',')) as country,
  count(*) as total_content
  from netflix
  group by 1
) as t1
where country is not null
order by total_content desc
limit 5
```

	country text	total_content bigint
1	United States	3211
2	India	1008
3	United Kingd...	628
4	United States	479
5	Canada	271

Total rows: 5 of 5 Query complete 00:00:00.073

5. identify the longest movie or tv show duration.

```
select *
from netflix
where type = 'Movie'
order by split_part(duration, ' ',1)::int desc
```

	show_id character varying (10)	type character varying (10)	title character varying (150)
1	s5795	Movie	Louis C.K.: Hilarious
2	s5814	Movie	Louis C.K.: Live at the Comedy Store
3	s5542	Movie	Louis C.K. 2017
4	s4254	Movie	Black Mirror: Bandersnatch
5	s718	Movie	Headspace: Unwind Your Mind
6	s2492	Movie	The School of Mischief
7	s2488	Movie	No Longer kids

Total rows: 1000 of 6131 Query complete 00:00:00.199 Ln 65, Col 1

6. find content added in the last 5 years.

```
select *
from netflix
where to_date(date_added, 'Month DD, YYYY') >= current_date - interval '5 years'
```

	show_id character varying (10)	type character varying (10)	title character varying (150)
1	s1	Movie	Dick Johnson Is Dead
2	s2	TV Show	Blood & Water
3	s3	TV Show	Ganglands
4	s4	TV Show	Jailbirds New Orleans
5	s5	TV Show	Kota Factory
6	s6	TV Show	Midnight Mass
7	s7	Movie	My Little Pony: A New Generation
Total rows: 1000 of 3491			Query complete 00:00:00.218
			Ln 74, Col 1

7. find all the movies/tv shows by director 'Rajiv Chilaka'.

```
SELECT *
FROM (
    SELECT *,
        UNNEST(string_to_array(director, ',')) AS director_name
    FROM netflix
    WHERE director IS NOT NULL
) AS subquery
WHERE TRIM(director_name) = 'Rajiv Chilaka'
```

	show_id character varying (10)	type character varying (10)	title character varying (150)
1	s407	Movie	Chhota Bheem - Neeli Pahaadi
2	s408	Movie	Chhota Bheem & Ganesh
3	s409	Movie	Chhota Bheem & Krishna: Mayanagari
4	s410	Movie	Chhota Bheem & Krishna: Pataliputra- City of the D
5	s411	Movie	Chhota Bheem And The Broken Amulet
6	s412	Movie	Chhota Bheem And The Crown of Valhalla
7	s413	Movie	Chhota Bheem and the Incan Adventure
Total rows: 22 of 22			Query complete 00:00:00.105
			Ln 76, Col 1

8. list all tv shows with more than 5 season.

```
select *
from netflix
where type = 'TV Show' and split_part(duration, ' ',1)::int > 5
```

	show_id character varying (10)	type character varying (10)	title character varying (150)	director character va
1	s9	TV Show	The Great British Baking Show	Andy Devon
2	s56	TV Show	Nailed It	[null]
3	s66	TV Show	Numberblocks	[null]
4	s68	TV Show	Saved by the Bell	[null]
5	s83	TV Show	Lucifer	[null]
6	s275	TV Show	Grace and Frankie	[null]
7	s324	TV Show	30 Rock	[null]
Total rows: 99 of 99 Query complete 00:00:00.092				Ln 86, Col 1

9. count the number of content items in each genre.

```
select unnest(string_to_array(listed_in',')) as genre,
count(*) as total_content
from netflix
group by 1
```

	genre text	total_content bigint
1	International TV Shows	774
2	Stand-Up Comedy	9
3	Spanish-Language TV Shows	172
4	Romantic Movies	613
5	Anime Features	21
6	TV Horror	11
7	Stand-Up Comedy & Talk Shows	34
Total rows: 73 of 73 Query complete 00:00:00.081		

10. find average release year for content produced in a specific country.

```
select country, release_year, count(show_id) as total_release,
round(
    count(show_id)::numeric/
    (select count(show_id) from netflix where country = 'India')::numeric*100, 2
) as avg_release
from netflix
where country='India'
group by country,2
order by avg_release desc
limit 5
```

	country character varying (150) 🔒	release_year integer 🔒	total_release bigint 🔒	avg_release numeric 🔒
1	India	2017	101	10.39
2	India	2018	94	9.67
3	India	2019	87	8.95
4	India	2020	75	7.72
5	India	2016	73	7.51

Total rows: 5 of 5

Query complete 00:00:00.090

11. list all movies that are documentaries.

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

	show_id character varying (10) 🔒	type character varying (10) 🔒	title character varying (150)
1	s1	Movie	Dick Johnson Is Dead
2	s46	Movie	My Heroes Were Cowboys
3	s118	Movie	Final Account
4	s222	Movie	Bob Ross: Happy Accidents, Betrayal & Greed
5	s305	Movie	Lady Boss: The Jackie Collins Story
6	s379	Movie	Fantastic Fungi
7	s405	Movie	8to5: The Story of a Movement

Total rows: 383 of 383

Query complete 00:00:00.169

Ln 110, Col 1

12. find all content without a director.

```
select * from netflix
where director is null
```

	show_id character varying (10) 🔒	type character varying (10) 🔒	title character varying (150)
1	s2	TV Show	Blood & Water
2	s4	TV Show	Jailbirds New Orleans
3	s5	TV Show	Kota Factory
4	s11	TV Show	Vendetta: Truth, Lies and The Mafia
5	s15	TV Show	Crime Stories: India Detectives
6	s16	TV Show	Dear White People
7	s762	TV Show	Human: The World Within
Total rows: 1000 of 2634			Query complete 00:00:00.278
			Ln 115, Col 23

13. find how many movies actor 'Salman khan' appeared in last 10 years.

```
select * from netflix
where casts like '%Salman Khan%' and release_year > extract(year from
current_date) - 10
```

	show_id character varying (10) 🔒	type character varying (10) 🔒	title character varying (150) 🔒	director character varying (215) 🔒
1	s2340	Movie	Prem Ratan Dhan Payo	Sooraj R. Barjatya
2	s2757	Movie	Paharganj	Rakesh Ranjan Kumar

Total rows: 2 of 2	Query complete 00:00:00.074	Ln 118, Col 1
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14. Find the top 10 actors who have appeared in the highest number of movies produced in India.

```
select unnest(string_to_array(casts, ',')) as actor, count(*)
from netflix
where country = 'India'
group by 1
order by 2 desc
limit 10
```

	actor text	count bigint
1	Anupam Kher	36
2	Paresh Rawal	24
3	Shah Rukh Khan	24
4	Om Puri	23
5	Akshay Kumar	22
6	Boman Irani	21
7	Amitabh Bachchan	20

Total rows: 10 of 10

Query complete 00:00:00.091

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, type, count(*) as content_count
from(
  select *,
  case
    when description ilike '%kill%' or description ilike '%violence%' then
    'Bad'
    else 'Good'
  end as category
  from netflix
) as categorized_content
group by 1,2
order by 2
```

	category text	type character varying (10)	content_count bigint
1	Bad	Movie	251
2	Good	Movie	5880
3	Bad	TV Show	91
4	Good	TV Show	2585

Total rows: 4 of 4

Query complete 00:00:00.195