

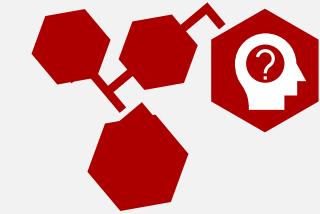


# NETFLIX Data SQL Analysis

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# Project Overview



SQL-based  
analysis of Netflix  
dataset



01  
03

Answered 15  
real-world  
business  
questions



02  
04

Focus on Movies,  
TV Shows,  
Genres, Ratings,  
Countries,  
Actors

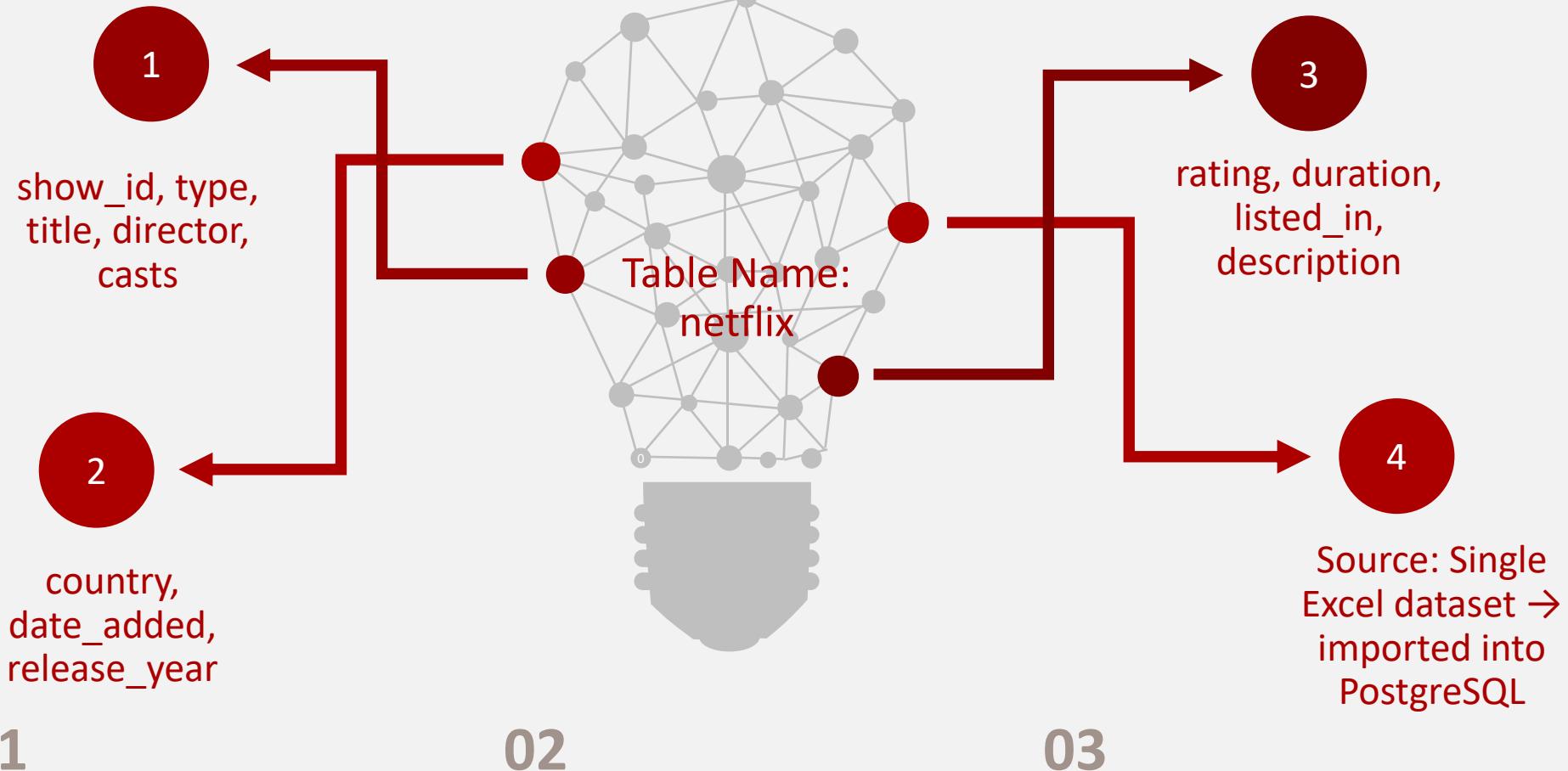


Useful for  
streaming  
platforms,  
analysts &  
strategists



# Dataset Used

Key Columns:

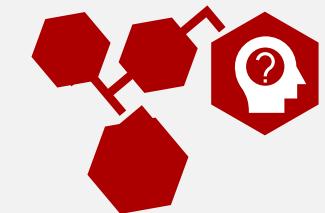


01

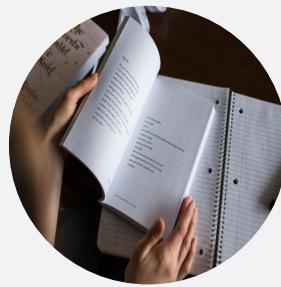
02

03





# Business Problems Addressed (Part 1)



How many  
Movies vs TV  
Shows exist?

What's the  
most common  
rating?

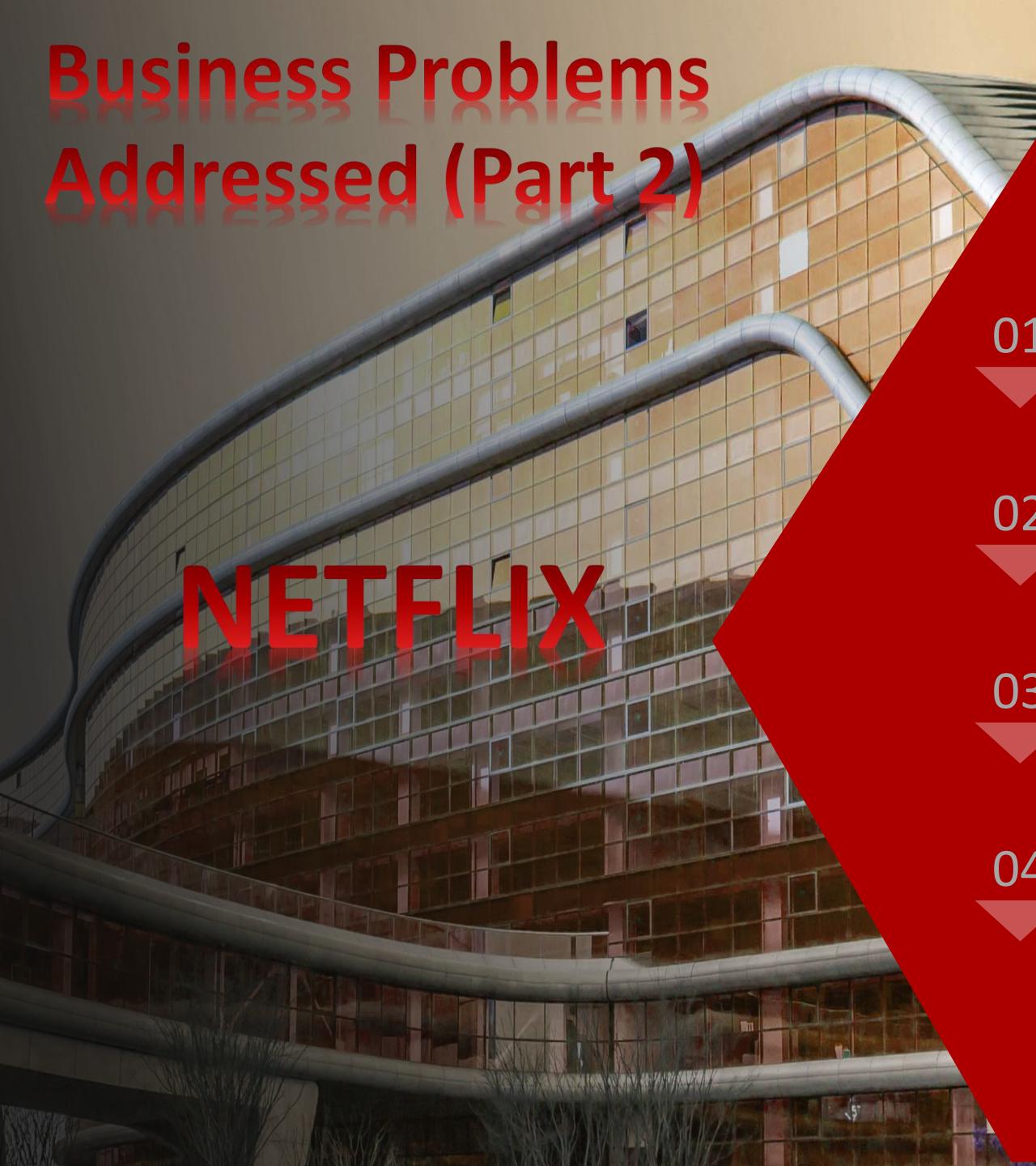
Which year  
had the  
highest  
releases?

Top 5  
countries  
producing  
Netflix content?

Which are the  
longest movies?

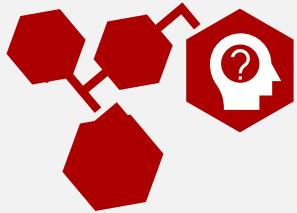


# Business Problems Addressed (Part 2)



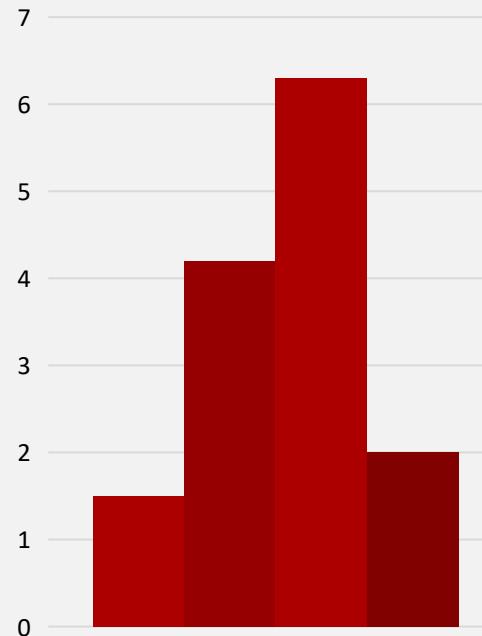
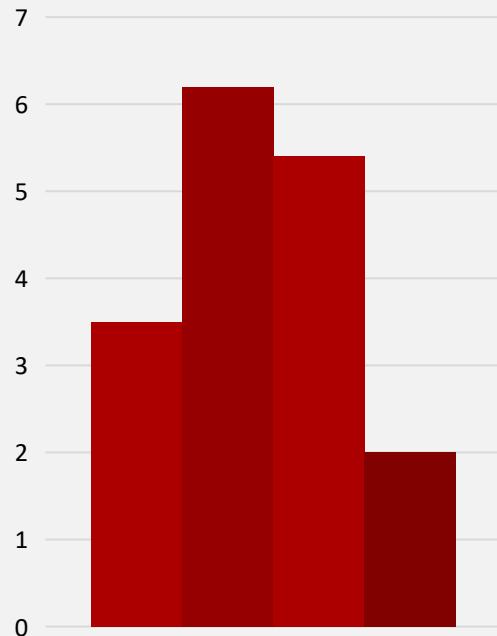
NETFLIX

- Content added in last 5 years
- Which directors have the most shows?
- TV shows with more than 5 seasons
- Which genres dominate Netflix?
- Netflix content from India (trends by year)
- Actor insights (Salman Khan + Top 10 Indian actors)
- Content flagged as Good vs Bad (violence)



# Methodology

## Steps followed:



1

Data Preparation – Import Excel → PostgreSQL, assign data types

2

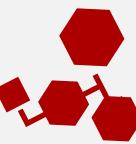
Basic Exploration – SELECT, DISTINCT, WHERE

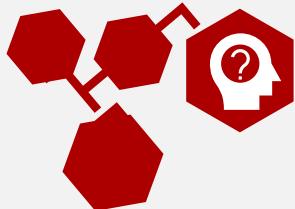
3

Advanced Analysis – Aggregations, Date filters, Text search

4

Array Handling – UNNEST, STRING\_TO\_ARRAY for actors/genres





# Key Insights

1

Movies dominate over TV Shows

2

Most common rating = TV-MA  
(mature audience)

3

Top producing countries = USA, India

4

Longest movie identified by runtime field

5

Recent years = steady content growth

5

Top Indian actors frequently featured

6

Salman Khan appeared in multiple movies (last 10 years)

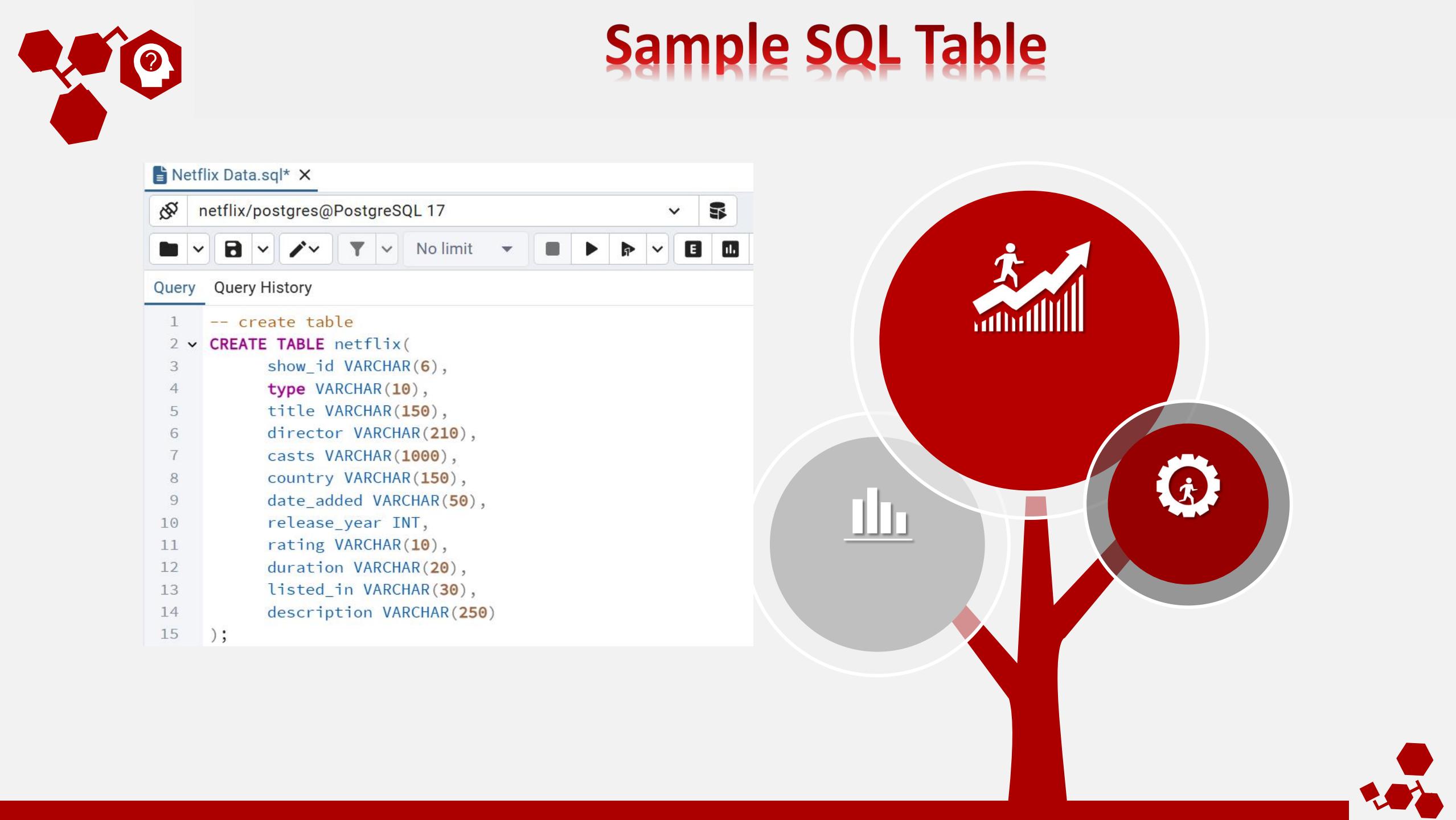
7

Genres: Drama, Comedy, International Movies dominate

8

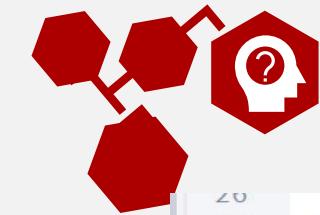
Categorization: Good vs Bad (Violent content detection)





# Sample SQL Table

# Sample Queries



```
26  
27 -- 15 Business Problems & Solutions  
28  
29 --1. Count the number of Movies vs TV Shows  
30 SELECT type, COUNT(*)  
FROM netflix  
31 GROUP BY type;  
32
```

Data Output Messages Notifications

SQL

	type	count
1	Movie	2791
2	TV Show	925

--1. Count the number of Movies vs TV Shows

```
SELECT type, COUNT(*)  
FROM netflix  
GROUP BY type;
```



# Sample Queries



```
--2. Find the most common rating for movies and TV shows
SELECT rating, COUNT(*) AS total_count
FROM netflix
GROUP BY rating
ORDER BY total_count DESC
LIMIT 1;

SELECT type, rating, COUNT(*) AS total_count
FROM netflix
GROUP BY type, rating
ORDER BY type, total_count DESC;
```

Output Messages Notifications

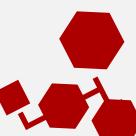


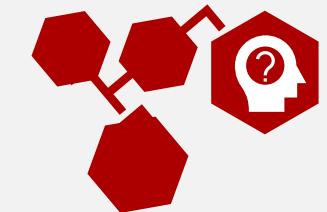
rating	total_count
character varying (10)	bigint
TV-MA	1206

--2. Find the most common rating for movies and TV shows

```
SELECT rating, COUNT(*) AS total_count
FROM netflix
GROUP BY rating
ORDER BY total_count DESC
LIMIT 1;
```

```
SELECT type, rating, COUNT(*) AS
total_count
FROM netflix
GROUP BY type, rating
ORDER BY type, total_count DESC;
```





# Sample Queries

```
45  
46 --3. List all movies released in a specific year (e.g., 2020)  
47 ✓ SELECT *  
48 FROM netflix  
49 WHERE release_year = 2020;  
50
```

Data Output Messages Notifications

Showing rows: 1 to 399 Page No: 1 of 1

	show_id character varying (6)	type character varying (10)	title character varying (150)	director character varying (210)
1	s1	Movie	Dick Johnson Is Dead	Kirsten Johnson
2	s35	TV Show	Tayo and Little Wizards	[null]
3	s149	TV Show	HQ Barbers	Gerhard Mostert
4	s908	Movie	In Our Mothers' Gardens	Shantrelle P. Lewis
5	s190	TV Show	Bread Barbershop	[null]
6	s230	Movie	The Old Ways	Christopher Alender
7	s257	Movie	Nneka The Pretty Serpent	Tosin Igbo
8	s269	Movie	Unroyal	Moses Inwang
9	s325	TV Show	44 Cats	[null]
10	s474	Movie	Born to Play	Viridiana Lieberman

Successfully run. Total query runtime: 322 msec. 399 rows affected.



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

SFI FCT \*

FROM netflix

WHERE release\_year = 2020;





# Sample Queries

```
51 --4. Find the top 5 countries with the most content on Netflix
52 SELECT
53   TRIM(unnest(string_to_array(country, ','))) AS country,
54   COUNT(*) AS total_content
55 FROM netflix
56 WHERE country IS NOT NULL
57 GROUP BY country
58 ORDER BY total_content DESC
59 LIMIT 5;
```

Data Output Messages Notifications

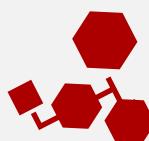
SQL

Showing rows 1-5

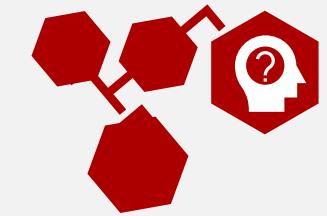
	country	total_content
1	United States	1919
2	India	167
3	United Kingdom	163
4	Canada	97
5	Egypt	41

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

```
SELECT
  TRIM(unnest(string_to_array(country, ','))) AS country,
  COUNT(*) AS total_content
FROM netflix
WHERE country IS NOT NULL
GROUP BY country
ORDER BY total_content DESC
LIMIT 5;
```



# Sample Queries



```
--5. Identify the longest movie
SELECT *
FROM netflix
WHERE type = 'Movie'
ORDER BY SPLIT_PART(duration, ' ', 1)::INT DESC;
```

Data Output Messages Notifications

Showing rows: 1 to 1000 Page No: 1 of 3

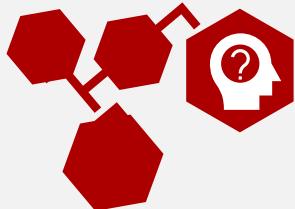
	show_id	type	title	director
1	s5542	Movie	Louis C.K. 2017	Louis C.K.
2	s5795	Movie	Louis C.K.: Hilarious	Louis C.K.
3	s5814	Movie	Louis C.K.: Live at the Comedy Store	Louis C.K.
4	s718	Movie	Headspace: Unwind Your Mind	[null]
5	s167	Movie	Once Upon a Time in America	Sergio Leone
6	s3228	Movie	The Irishman	Martin Scorsese
7	s2732	Movie	Kabhi Khushi Kabhie Gham	Karan Johar
8	s8328	Movie	The Gospel of Luke	David Batty
9	s2484	Movie	Fifty Year Old Teenager	Fouad Al Shatti

✓ Successfully run. Total query runtime: 312 msec. 2791 rows affected. ✘

--5. Identify the longest movie

```
SELECT *
FROM netflix
WHERE type = 'Movie'
ORDER BY SPLIT_PART(duration, ' ', 1)::INT DESC;
```





# Sample Queries

```
--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';
```

Output Messages Notifications

show\_id character varying (6) type character varying (10) title character varying (150) director character varying (210)

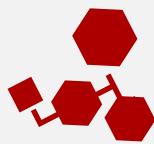
show_id	type	title	director
s1	Movie	Dick Johnson Is Dead	Kirsten Johnson
s4	TV Show	Jailbirds New Orleans	[null]
s7	Movie	My Little Pony: A New Generation	Robert Cullen, José Luis Ucha
s9	TV Show	The Great British Baking Show	Andy Devonshire
s10	Movie	The Starling	Theodore Melfi
s13	Movie	Je Suis Karl	Christian Schwochow
s16	TV Show	Dear White People	[null]
s19	Movie	Intrusion	Adam Salky
s23	Movie	Avvai Shamughi	K.S. Ravikumar
s24	Movie	Go! Go! Cory Carson: Chrissy Takes the Wheel	Alex Woo, Stanley Moore
s28	Movie	Grown Ups	

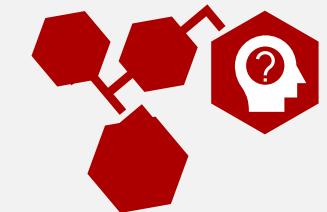
Successfully run. Total query runtime: 297 msec. 970 rows affected.

## --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';
```







# Sample Queries

```
--7. Find all the movies/TV shows by director 'Rajiv Chilaka'!
SELECT *
FROM netflix
WHERE director = 'Rajiv Chilaka';
```

Output Messages Notifications

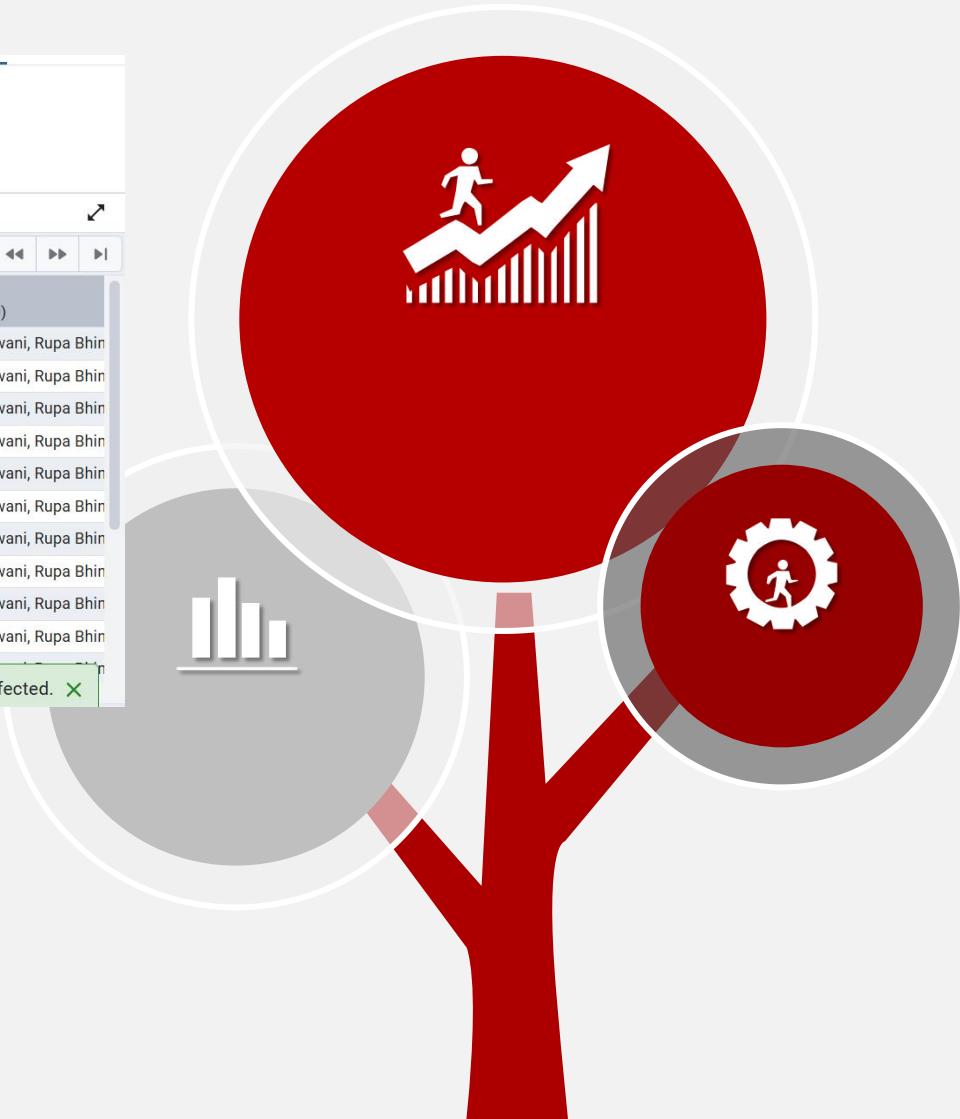
Showing rows: 1 to 18 Page No: 1 of 1

show_id	type	title	director	casts
s407	Movie	Chhota Bheem - Neeli Pahaadi	Rajiv Chilaka	Vatsal Dubey, Julie Tejwani, Rupa Bhin
s408	Movie	Chhota Bheem & Ganesh	Rajiv Chilaka	Vatsal Dubey, Julie Tejwani, Rupa Bhin
s409	Movie	Chhota Bheem & Krishna: Mayanagari	Rajiv Chilaka	Vatsal Dubey, Julie Tejwani, Rupa Bhin
s410	Movie	Chhota Bheem & Krishna: Pataliputra- City of the Dead	Rajiv Chilaka	Vatsal Dubey, Julie Tejwani, Rupa Bhin
s411	Movie	Chhota Bheem And The Broken Amulet	Rajiv Chilaka	Vatsal Dubey, Julie Tejwani, Rupa Bhin
s412	Movie	Chhota Bheem And The Crown of Valhalla	Rajiv Chilaka	Vatsal Dubey, Julie Tejwani, Rupa Bhin
s413	Movie	Chhota Bheem and the Incan Adventure	Rajiv Chilaka	Vatsal Dubey, Julie Tejwani, Rupa Bhin
s414	Movie	Chhota Bheem and The ShiNobi Secret	Rajiv Chilaka	Vatsal Dubey, Julie Tejwani, Rupa Bhin
s415	Movie	Chhota Bheem Aur Hanuman	Rajiv Chilaka	Vatsal Dubey, Julie Tejwani, Rupa Bhin
s416	Movie	Chhota Bheem aur Krishna	Rajiv Chilaka	Vatsal Dubey, Julie Tejwani, Rupa Bhin
s417	Movie	Chhota Bheem aur Krishna vs Zim		

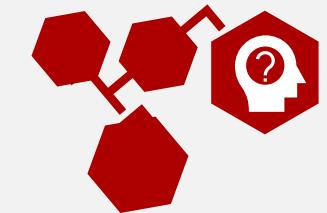
Successfully run. Total query runtime: 144 msec. 18 rows affected.

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

```
SELECT *
FROM netflix
WHERE director = 'Rajiv Chilaka';
```



# Sample Queries



```
77 --8. List all TV shows with more than 5 seasons
78 SELECT * FROM netflix
79 WHERE type = 'TV Show'
80 AND CAST(SPLIT_PART(duration, ' ', 1) AS INT) > 5;
81
```

Data Output Messages Notifications

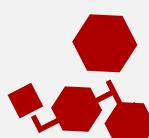
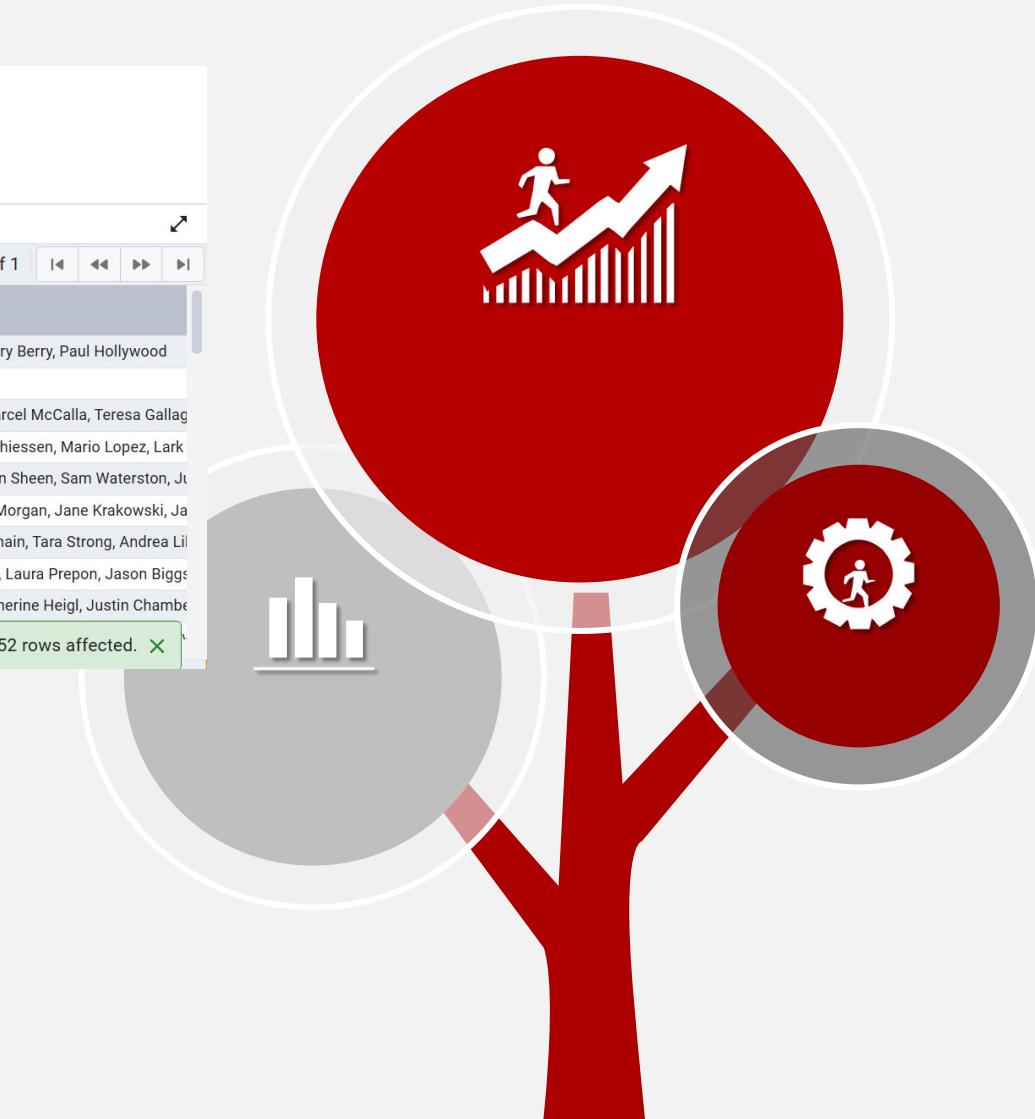
Showing rows: 1 to 52 | Page No: 1 of 1

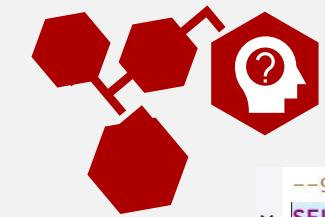
	show_id	type	title	director	casts
1	s9	TV Show	The Great British Baking Show	Andy Devonshire	Mel Giedroyc, Sue Perkins, Mary Berry, Paul Hollywood
2	s56	TV Show	Nailed It	[null]	Nicole Byer, Jacques Torres
3	s66	TV Show	Numberblocks	[null]	Beth Chalmers, David Holt, Marcel McCalla, Teresa Gallagher
4	s68	TV Show	Saved by the Bell	[null]	Mark-Paul Gosselaar, Tiffani Thiessen, Mario Lopez, Lark
5	s275	TV Show	Grace and Frankie	[null]	Jane Fonda, Lily Tomlin, Martin Sheen, Sam Waterston, Jr.
6	s324	TV Show	30 Rock	[null]	Tina Fey, Alec Baldwin, Tracy Morgan, Jane Krakowski, Jane
7	s526	TV Show	My Little Pony: Friendship Is Magic	[null]	Ashleigh Ball, Tabitha St. Germain, Tara Strong, Andrea Libman
8	s527	TV Show	Orange Is the New Black	[null]	Taylor Schilling, Kate Mulgrew, Laura Prepon, Jason Biggs
9	s549	TV Show	Grey's Anatomy	[null]	Ellen Pompeo, Sandra Oh, Katherine Heigl, Justin Chambers
10	s678	TV Show	Schitt's Creek		

✓ Successfully run. Total query runtime: 421 msec. 52 rows affected. ✘

--8. List all TV shows with more than 5 seasons

```
SELECT * FROM netflix
WHERE type = 'TV Show'
AND CAST(SPLIT_PART(duration, ' ', 1) AS INT) > 5;
```





# Sample Queries

```
--9. Count the number of content items in each genre
SELECT
    TRIM(unnest(string_to_array(listed_in, ','))) AS genre,
    COUNT(*) AS total_content
FROM netflix
GROUP BY genre
ORDER BY total_content DESC;
```

Output Messages Notifications

Showin

genre	total_content
Dramas	877
International Movies	541
Comedies	527
Documentaries	465
Kids' TV	392
Stand-Up Comedy	336
TV Comedies	232
Thrillers	231

✓ S

--9. Count the number of content items in each genre

```
SELECT
    TRIM(unnest(string_to_array(listed_in, ','))) AS genre,
    COUNT(*) AS total_content
FROM netflix
GROUP BY genre
ORDER BY total_content DESC;
```





# Sample Queries

```
--10.Find each year and the average numbers of content release in India on netflix.  
-- return top 5 year with highest avg content release!  
  
SELECT release_year,  
COUNT(*) AS total_content,  
ROUND(COUNT(*)::numeric, 2) AS avg_content  
FROM netflix  
WHERE country LIKE '%India%'  
GROUP BY release_year  
ORDER BY avg_content DESC  
LIMIT 5;
```

Output Messages Notifications

Showing rows: 1 to 5  Page N

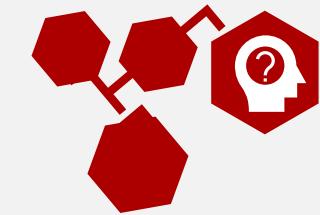
release_year	total_content	avg_content
2017	32	32.00
2020	18	18.00
2016	18	18.00
2019	18	18.00
2015	12	12.00

--10.Find each year and the average numbers of content release in India on netflix. return top 5 year with highest avg content release!

```
SELECT release_year,  
COUNT(*) AS total_content,  
ROUND(COUNT(*)::numeric, 2) AS avg_content  
FROM netflix  
WHERE country LIKE '%India%'  
GROUP BY release_year  
ORDER BY avg_content DESC  
LIMIT 5;
```



# Sample Queries



```
--11. List all movies that are documentaries
SELECT * FROM netflix
WHERE listed_in LIKE '%Documentaries';
```

Output Messages Notifications

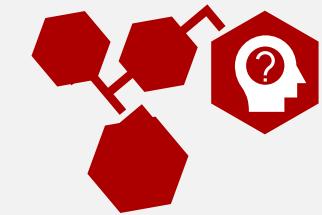
Showing rows: 1 to 373 | Page No: 1 of 1 | < << >> >

show_id	type	title	director
s1	Movie	Dick Johnson Is Dead	Kirsten Johnson
s46	Movie	My Heroes Were Cowboys	Tyler Greco
s118	Movie	Final Account	Luke Holland
s908	Movie	In Our Mothers' Gardens	Shantrelle P. Levy
s222	Movie	Bob Ross: Happy Accidents, Betrayal & Greed	Joshua Rofé
s305	Movie	Lady Boss: The Jackie Collins Story	Laura Fairrie
s379	Movie	Fantastic Fungi	Louie Schwartz
s405	Movie	9to5: The Story of a Movement	[null]
s463	Movie	This Changes Everything	Tom Donahue
s717	Movie	FTA	Francine Parker

--11. List all movies that are documentaries

```
SELECT * FROM netflix
WHERE listed_in LIKE '%Documentaries';
```





# Sample Queries

--12. Find all content without a director

```
SELECT * FROM netflix  
WHERE director IS NULL;
```

Output Messages Notifications



Showing rows: 1 to 985



Page No: 1

of 1



show_id	type	title	director
s4	TV Show	Jailbirds New Orleans	[null]
s16	TV Show	Dear White People	[null]
s32	TV Show	Chicago Party Aunt	[null]
s35	TV Show	Tayo and Little Wizards	[null]
s38	TV Show	Angry Birds	[null]
s40	TV Show	Chhota Bheem	[null]
s41	TV Show	He-Man and the Masters of the Universe	[null]
s56	TV Show	Nailed It	[null]
s66	TV Show	Numberblocks	[null]
s68	TV Show	Saved by the Bell	[null]
675	TV Show	The World's Most Amazing Vacations	[null]

--12. Find all content without a director

```
SELECT * FROM netflix  
WHERE director IS NULL;
```



# Sample Queries

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

```
SELECT
    COUNT(*) AS total_movies
FROM netflix
WHERE type = 'Movie'
    AND casts ILIKE '%Salman Khan%'
    AND release_year >= EXTRACT(YEAR FROM CURRENT_DATE) - 10;
```

Output Messages Notifications

Showing rows: 1 to 1

total_movies	bigint
0	

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

```
SELECT
    COUNT(*) AS total_movies
FROM netflix
WHERE type = 'Movie'
    AND casts ILIKE '%Salman Khan%'
    AND release_year >= EXTRACT(YEAR FROM CURRENT_DATE) - 10;
```



# Sample Queries



```
--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;
```

Output Messages Notifications

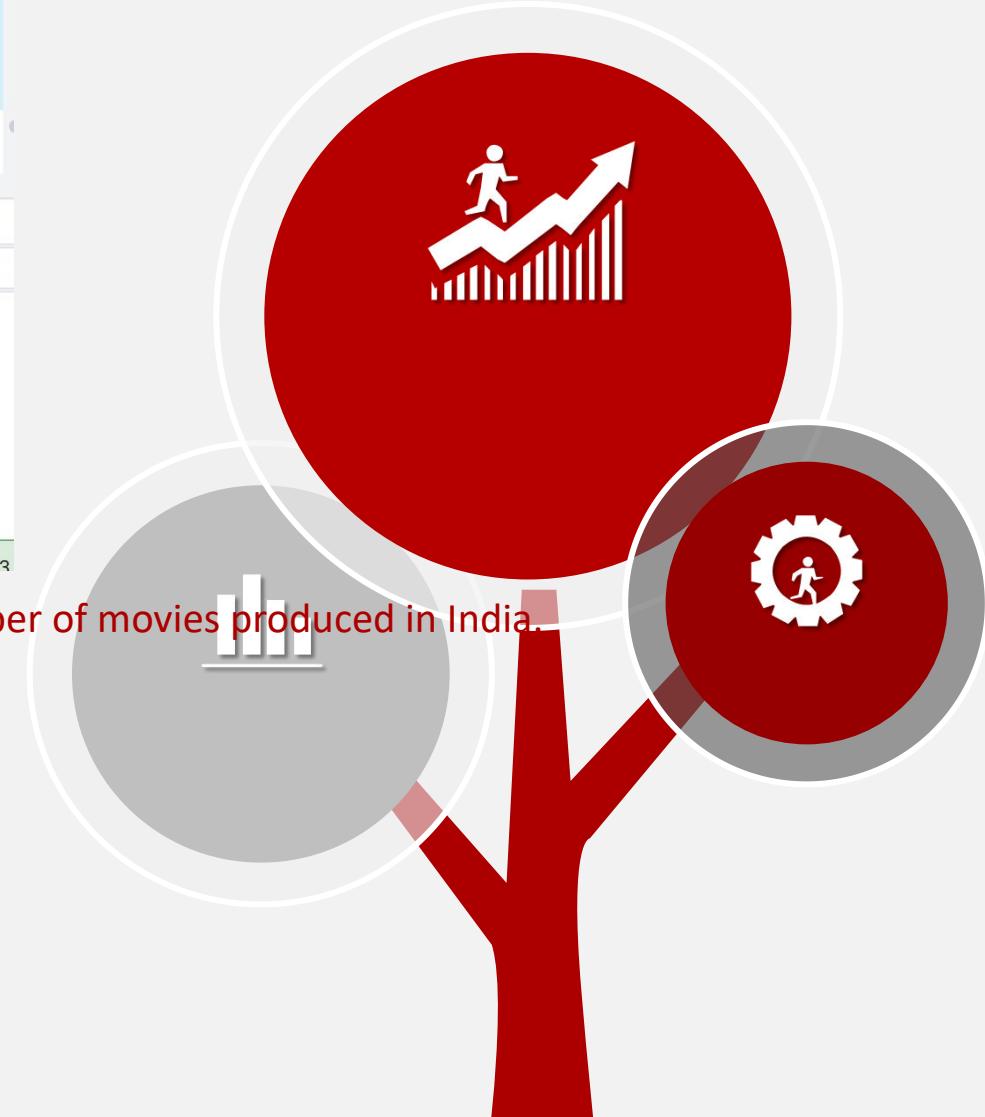
Showing rows: 1 to 10 Page No: 1

actor	count
Rajesh Kava	7
Julie Tejwani	7
Rupa Bhimani	6
Ajay Devgn	5
Kay Kay Men... <td>5</td>	5
Jigna Bhard... <td>5</td>	5

Successfully run. Total query runtime: 113 ms.

--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;
```



# Sample Queries



--15. Categorize the content based on the presence of the keywords 'kill' and 'violence' in 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;
```

Output Messages Notifications

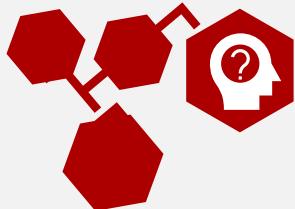
Showing rows: 1 to 4 |  Page No: 1

category	type	content_count
Bad	Movie	110
Good	Movie	2681
Bad	TV Show	20
Good	TV Show	905

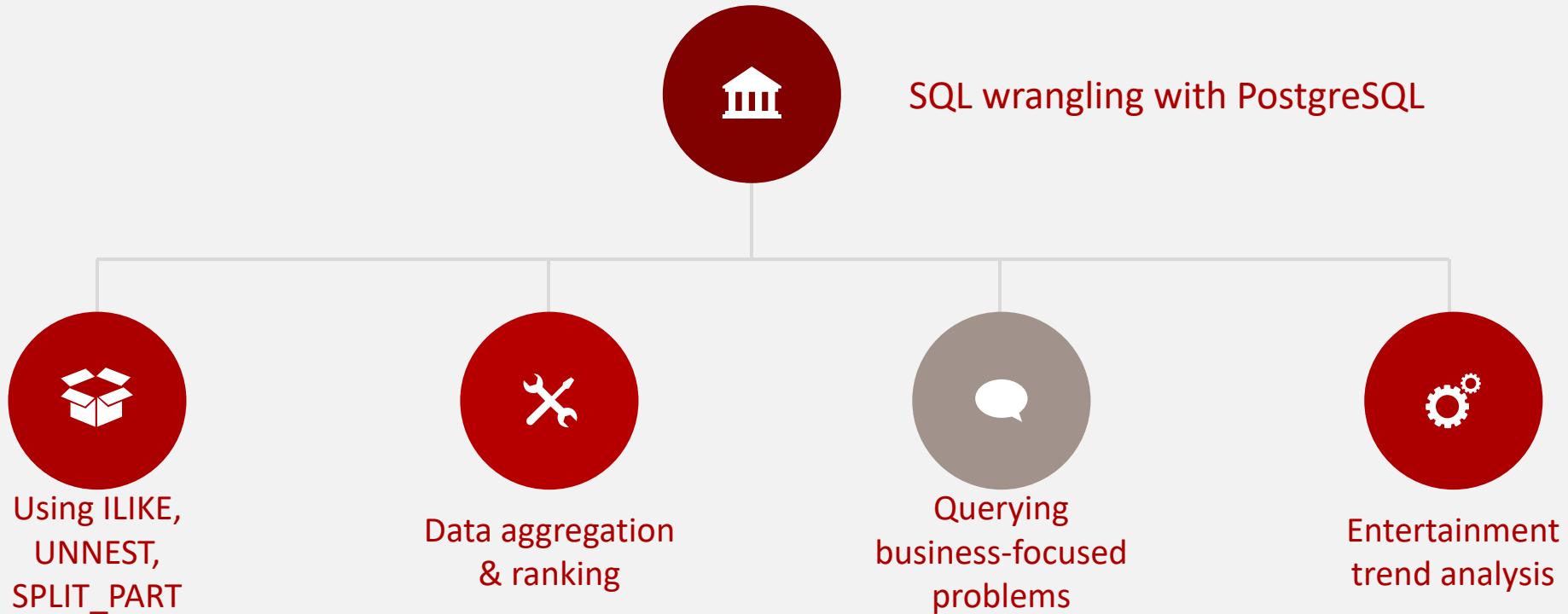
✓ Successfully run. Total query runtime: 2

```
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;
```





# Skills Gained





# Why This Project Matters

02 Can extend to Power BI/Tableau dashboards



01 Simulates real streaming analytics



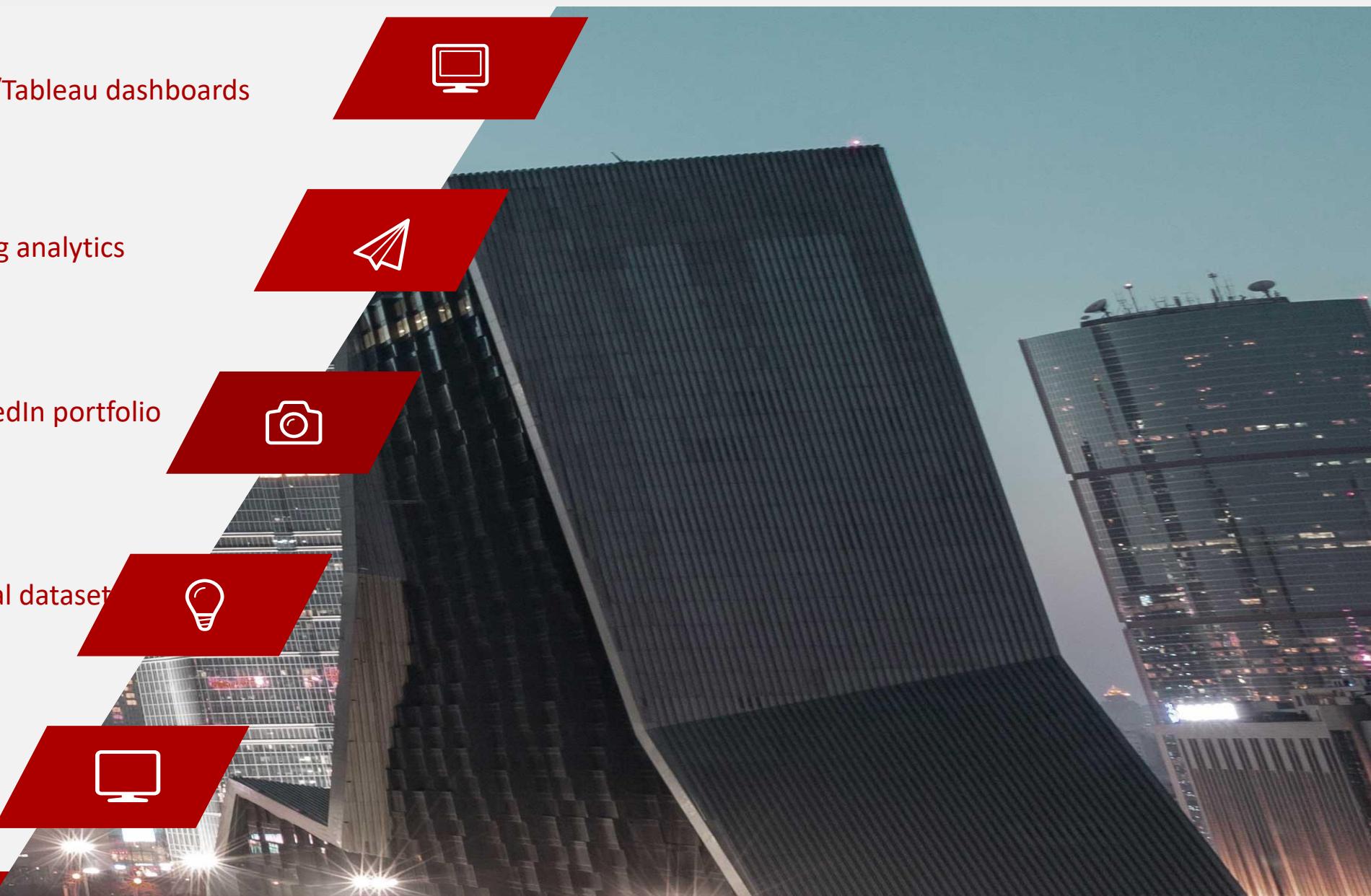
03 Perfect for GitHub/LinkedIn portfolio

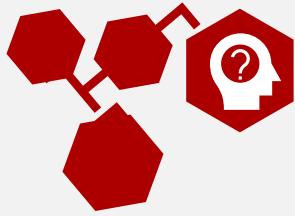


03 Proof of SQL skills on real dataset



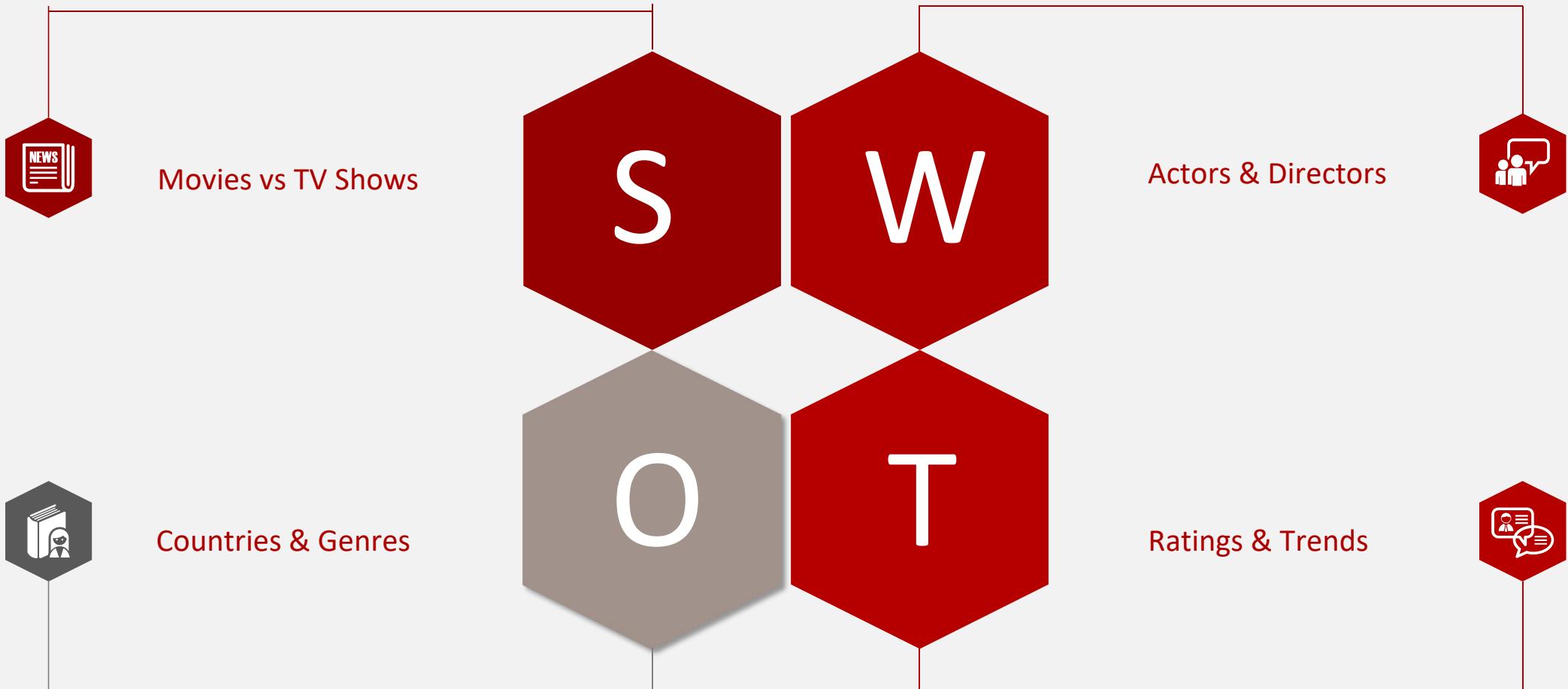
03 Strong interview  
showcase project

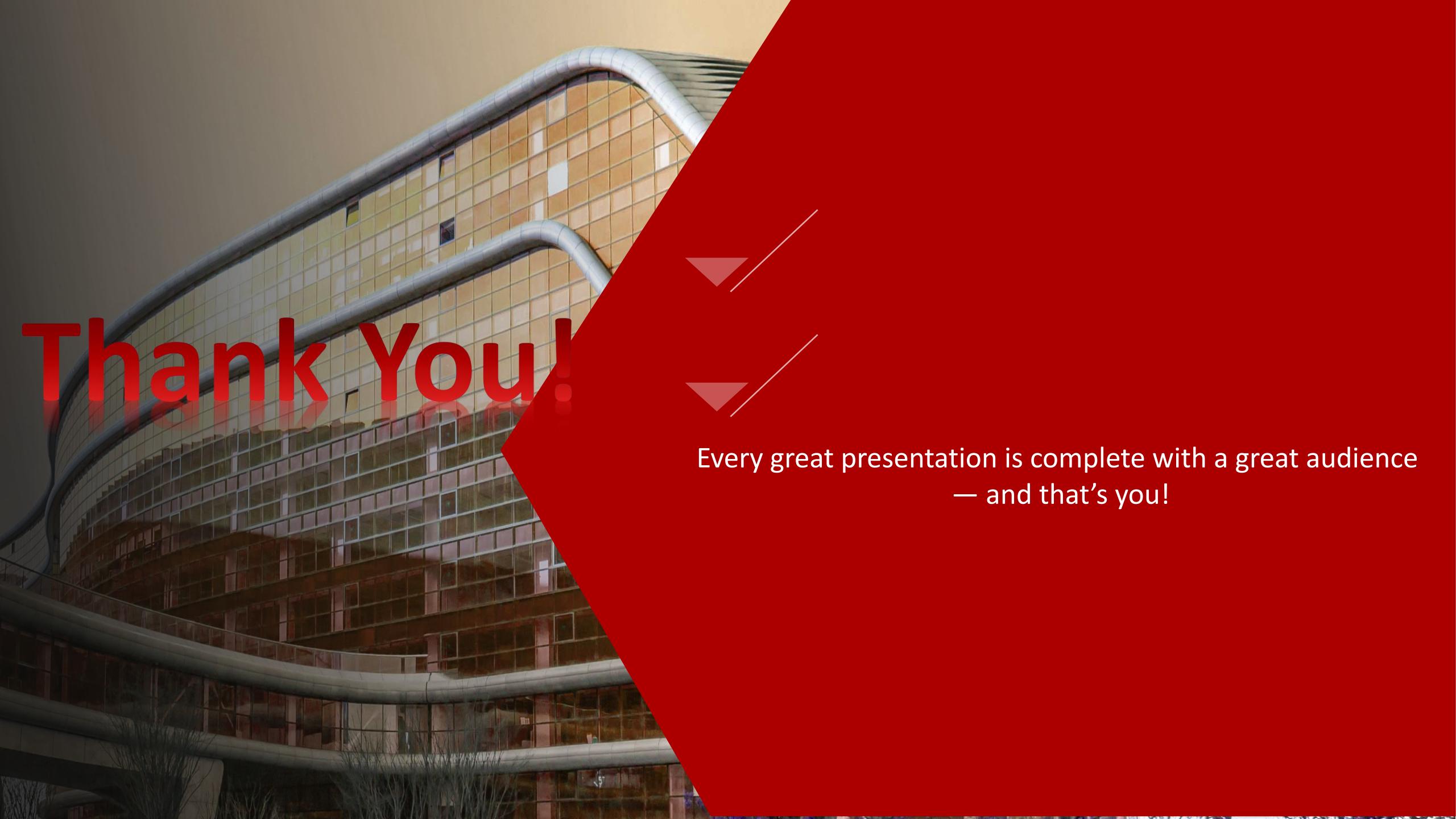




# Conclusion

Analyzed Netflix dataset with 15+ SQL queries





# Thank You!

Every great presentation is complete with a great audience  
— and that's you!