MOVIES AND TV SHOWS

NETFLIX

EXPLORING THE DEPTHS OF NETFLIX

WELCOME TO THE NETFLIX MOVIES AND TV SHOWS PRESENTATION

Hello!

My name is Kumar Siddharth and in this project, I have utilized SQL to analyze the data that were related to Netflix Movies and TV Shows.

INTRODUCTION

Welcome to my presentation on the analysis of the Netflix Movies and TV Shows dataset. In the age of digital streaming, Netflix stands as a giant in the entertainment industry, offering a vast library of content to its global audience. Understanding the patterns, trends, and insights hidden within this expansive dataset is crucial for strategic decision-making, content development, and enhancing user experience.

PROJECT AIM

Our project aims to delve into the rich dataset provided by Netflix, which includes detailed information on movies and TV shows available on the platform.

By leveraging tools such as Python, SQL and various data visualization techniques, we will transform raw data into meaningful narratives. Our goal is to provide actionable insights that can guide future content strategy, marketing efforts, and enhance the overall user experience on Netflix.

DATASET OVERVIEW

The Netflix Titles dataset is a comprehensive compilation of movies and TV shows available on Netflix, covering various aspects such as the title type, director, cast, country of production, release year, rating, duration, genres (listed in), and a brief description. This dataset is instrumental for analyzing trends in Netflix content, understanding genre popularity, and examining the distribution of content across different regions and time periods.

QUERIES

```sql
1    -- 1:- List all the titles available on Netflix.
2 •  SELECT
3        title
4    FROM
5        netflix_titles;
```

title
▶ Dick Johnson Is Dead
Blood & Water
Ganglands
Jailbirds New Orleans
Kota Factory
Midnight Mass
My Little Pony: A New Generation
Sankofa
The Great British Baking Show
The Starling

QUERIES

```sql
1    -- 2:- Find all the Movies directed by a Toshiya Shinohara director.
2 •  SELECT
3        title
4    FROM
5        netflix_titles
6    WHERE
7        film_types = 'Movie'
8            AND director = 'Toshiya Shinohara';
```

title
▶ InuYasha the Movie 2: The Castle Beyond the L...
InuYasha the Movie 3: Swords of an Honorable ...
InuYasha the Movie 4: Fire on the Mystic Island
InuYasha the Movie: Affections Touching Acros...
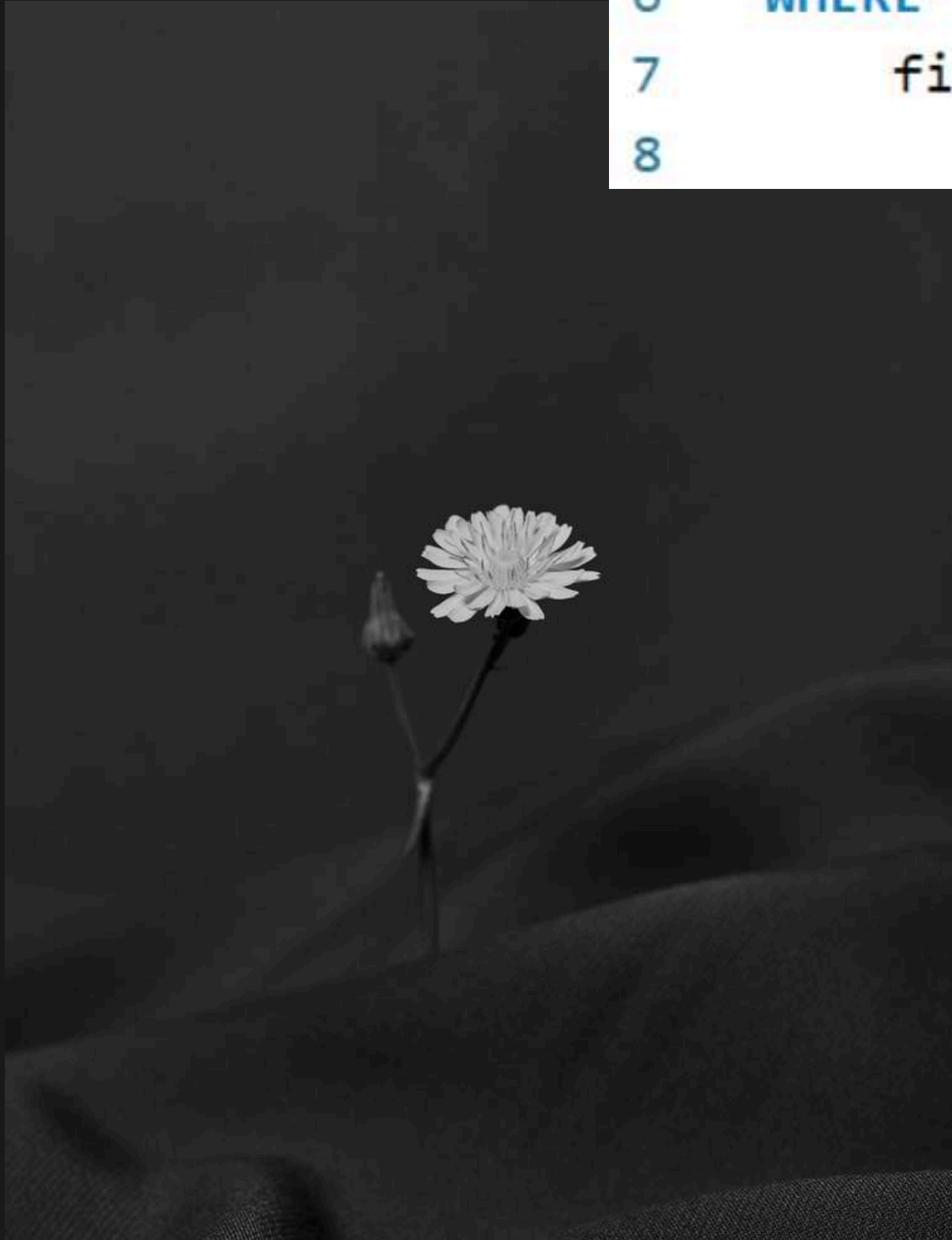
QUERIES

```sql
1    -- 3:- Count the number of movies and TV shows available on Netflix.
2 •  SELECT
3        film_types, COUNT(*) AS count
4    FROM
5        netflix_titles
6    GROUP BY film_types;
```

film_types	count
Movie	55
TV Show	41

QUERIES
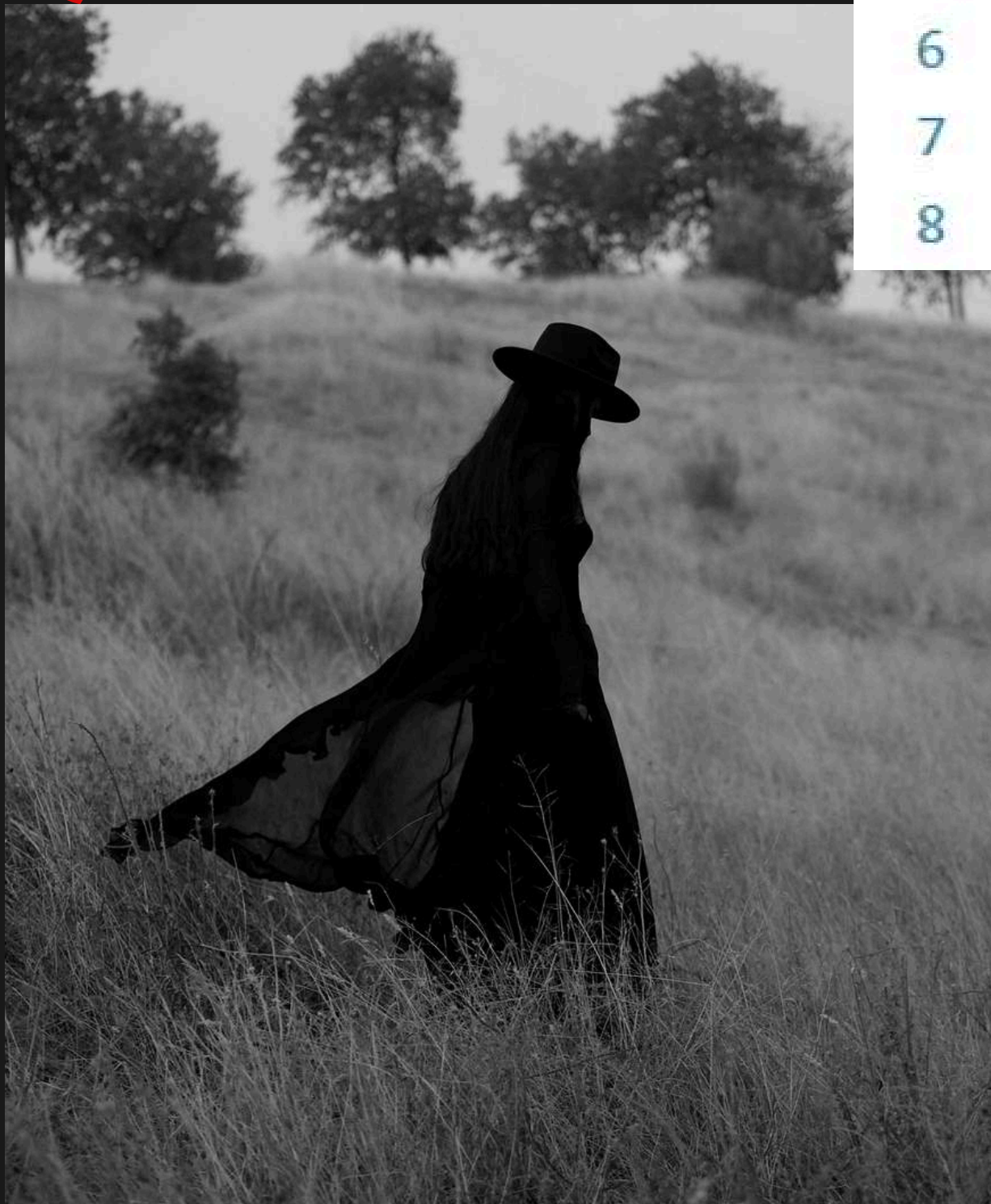
```sql
-- 4:- List all the titles released in a 2020 year.
SELECT
    title
FROM
    netflix_titles
WHERE
    release_year = 2020;
```

title
Dick Johnson Is Dead
Europe's Most Dangerous Man: Otto Skorzeny i...
Falsa identidad
Sex Education
Tayo and Little Wizards
The Smart Money Woman
Tughlaq Durbar
Omo Ghetto: the Saga

QUERIES

```sql
-- 5:- Find the average duration of movies by genre.
SELECT
    listed_in as genre, round(AVG(duration),2) AS avg_duration
FROM
    netflix_titles
WHERE
    film_types = 'Movie'
GROUP BY genre;
```

genre	avg_duration
Documentaries	56.5
Children & Family Movies	77.83
Dramas, Independent Movies, International Mo...	118
Comedies, Dramas	104
Dramas, International Movies	127
Children & Family Movies, Comedies	76.33
Documentaries, International Movies	79.5
Thrillers	100
Comedies, International Movies	161
Comedies, International Movies, Romantic Movies	166
Comedies, International Movies, Music & Musicals	147
Comedies	103
Horror Movies, Sci-Fi & Fantasy	97
Dramas, International Movies, Thrillers	110
Action & Adventure, Dramas, International Movies	105
Action & Adventure, Dramas	96
Action & Adventure, Classic Movies, Dramas	124

QUERIES


```sql
1    -- 6:- List the top 10 countries with the most titles produced.
2 •  SELECT
3        country, COUNT(*) AS count
4    FROM
5        netflix_titles
6    GROUP BY country
7    ORDER BY count DESC LIMIT 10;
```

country	count
Unknown Country	40
United States	16
Japan	13
India	6
United Kingdom	4
Nigeria	2
South Africa	1
United States, Ghana, Burkina Faso, United Kin...	1
Germany, Czech Republic	1
Mexico	1

QUERIES

```sql
-- 7:- Find all titles that have "Love" in their description.
SELECT
    title
FROM
    netflix_titles
WHERE
    description LIKE '%Love%';
```
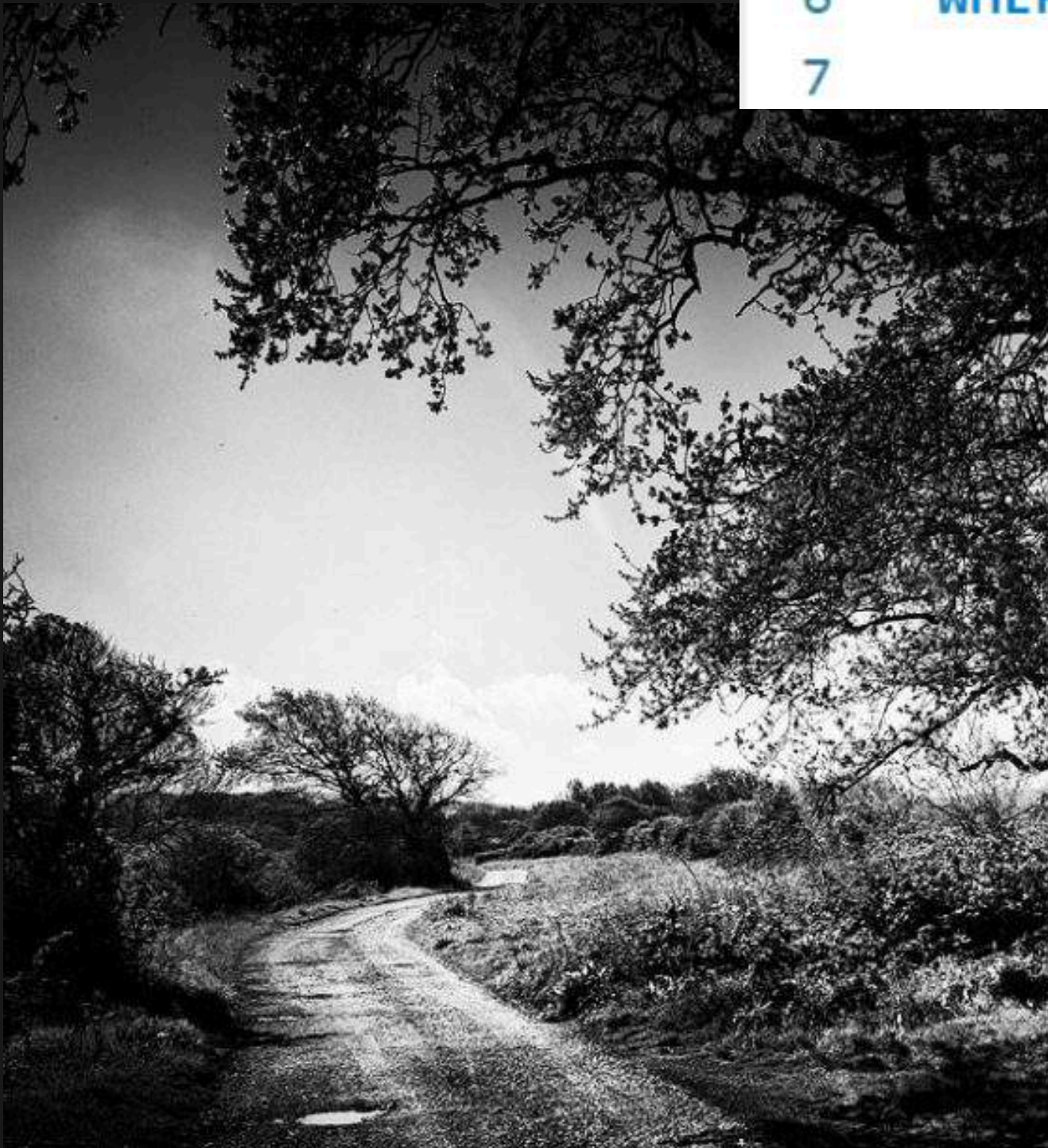
title
Jeans
Love on the Spectrum
Minsara Kanavu
Grown Ups
Ankahi Kahaniya
My Heroes Were Cowboys
The Smart Money Woman
JJ+E

QUERIES

```sql
1    -- 8:- Find all TV Show with a rating of "TV-Y7".
2  • SELECT
3        title
4    FROM
5        netflix_titles
6    WHERE
7        film_types = 'TV Show' AND rating = 'TV-Y7';
```
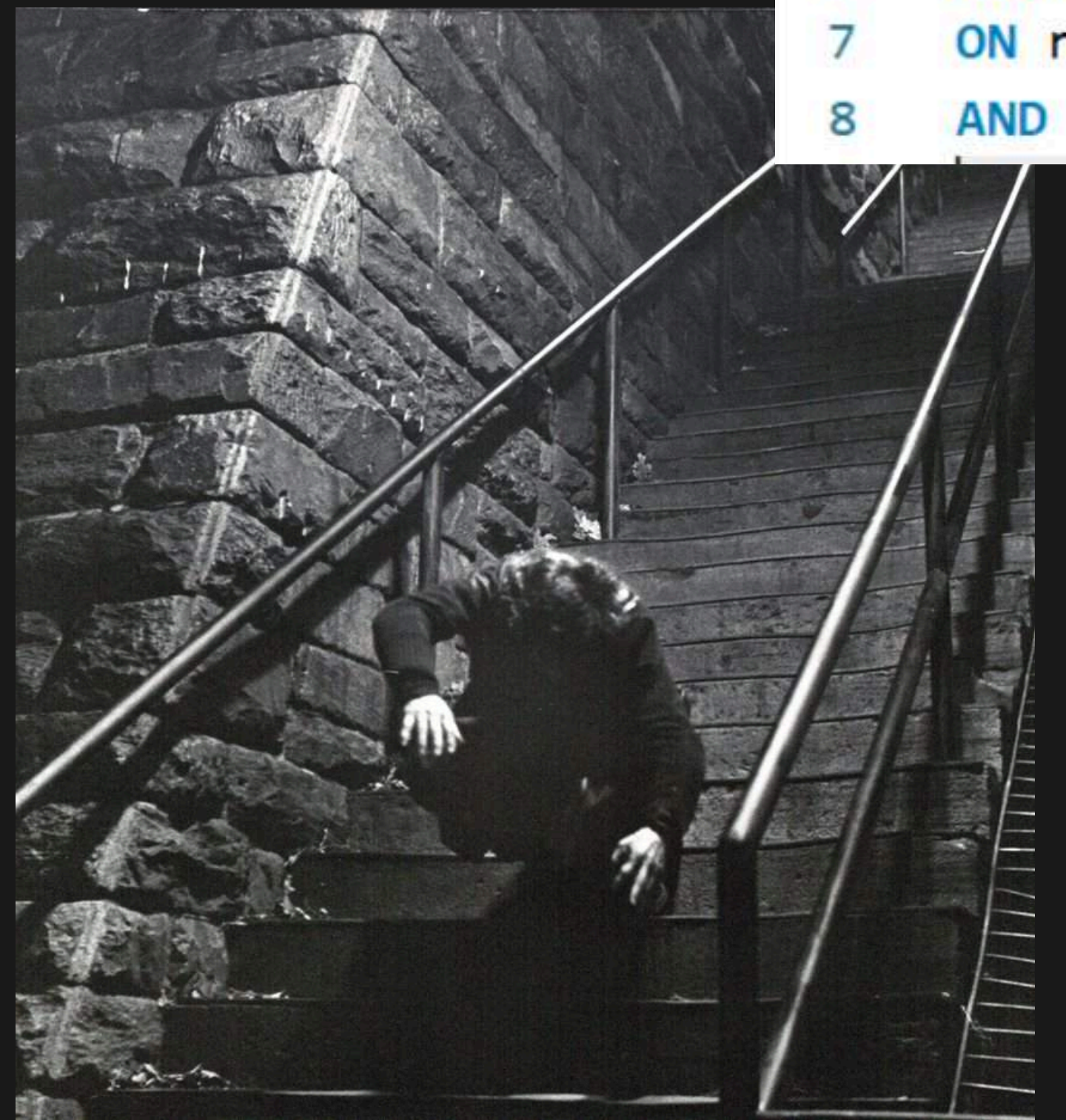
title
Tayo and Little Wizards
Angry Birds
Chhota Bheem
He-Man and the Masters of the Universe
PokÃ©mon Master Journeys: The Series
Mighty Raju

QUERIES

```sql
1    -- 9:- List all titles with the highest rating in each genre.
2  • WITH GenreMaxRatings AS (SELECT listed_in,
3          MAX(rating) AS max_rating
4        FROM netflix_titles GROUP BY listed_in)
5    SELECT nt.title, nt.listed_in as Genres, nt.rating
6    FROM netflix_titles nt JOIN GenreMaxRatings gmr
7    ON nt.listed_in = gmr.listed_in
8    AND nt.rating = gmr.max_rating;
```

title	Genres	rating
Dick Johnson Is Dead	Documentaries	PG-13
Into the Night	International TV Shows, TV Dramas, TV Mysteries	TV-MA
Blood & Water	International TV Shows, TV Dramas, TV Mysteries	TV-MA
Bangkok Breaking	Crime TV Shows, International TV Shows, TV Ac...	TV-MA
Ganglands	Crime TV Shows, International TV Shows, TV Ac...	TV-MA
Jailbirds New Orleans	Docuseries, Reality TV	TV-MA
The Smart Money Woman	International TV Shows, Romantic TV Shows, TV...	TV-MA
Kota Factory	International TV Shows, Romantic TV Shows, TV...	TV-MA
Midnight Mass	TV Dramas, TV Horror, TV Mysteries	TV-MA
Firedrake the Silver Dragon	Children & Family Movies	TV-Y7
Sankofa	Dramas, Independent Movies, International Mo...	TV-MA

QUERIES

```sql
-- 10:- Find the 10 genres with the highest average duration.
SELECT
    listed_in AS Genres, AVG(duration) AS avg_duration
FROM
    netflix_titles
GROUP BY listed_in
ORDER BY avg_duration DESC LIMIT 10;
```

Genres	avg_duration
Comedies, International Movies, Romantic Movies	166
Comedies, International Movies	161
Action & Adventure, Comedies, Dramas	147
Comedies, International Movies, Music & Musicals	147
Comedies, Dramas, International Movies	145
Dramas, International Movies	127
Action & Adventure, Classic Movies, Dramas	124
Dramas, Thrillers	122
Dramas, Independent Movies, International Mo...	118
Dramas, Horror Movies, Thrillers	116

QUERIES

```
1    -- 11:- Find the average duration of movies and TV shows for each director,
2    --       and then list the top 10 directors with the highest average duration.
3 •  SELECT director, AVG(duration) AS avg_duration
4    FROM netflix_titles
5    WHERE duration IS NOT NULL AND film_types IN ('Movie', 'TV Show')
6    GROUP BY director
7    ORDER BY avg_duration DESC LIMIT 10;
```

director	avg_duration
S. Shankar	166
K.S. Ravikumar	161
JJC Skillz, Funke Akindele	147
Rajiv Menon	147
Delhiprasad Deenadayalan	145
Christian Schwochow	127
Haile Gerima	125
Steven Spielberg	124
Antoine Fuqua	122
Jeannot Szwarc	116

QUERIES

```sql
-- 12:- Identify the top 5 genres with the highest number of titles released in each year.
WITH GenreCounts AS (
    SELECT release_year, listed_in, COUNT(*) AS title_count
    FROM netflix_titles
    WHERE release_year IS NOT NULL AND  listed_in IS NOT NULL
    GROUP BY release_year, listed_in),
RankedGenres AS (
    SELECT release_year, listed_in as genres, title_count,
        ROW_NUMBER() OVER (PARTITION BY release_year ORDER BY title_count desc)
        AS ranks FROM GenreCounts)
SELECT release_year,genres, title_count
FROM RankedGenres
WHERE ranks <= 5;
```

release_year	genres	title_count
2021	Children & Family Movies	6
2021	Reality TV	4
2021	Crime TV Shows, International TV Shows, TV Ac...	2
2021	Children & Family Movies, Comedies	2
2021	Crime TV Shows, Docuseries, International TV S...	2
2020	Crime TV Shows, Spanish-Language TV Shows, ...	1
2020	British TV Shows, International TV Shows, TV C...	1
2020	Action & Adventure, Comedies, Dramas	1
2020	Kids' TV	1
2020	Documentaries	1

QUERIES

```sql
1   -- 13:- Find the directors who have directed titles in the most diverse set of genres,
2   --       listing the number of distinct genres for each director.
3 • SELECT director, COUNT(DISTINCT listed_in) AS genre_count
    FROM netflix_titles
    WHERE director IS NOT NULL AND listed_in IS NOT NULL
    GROUP BY director
7   ORDER BY genre_count DESC;
```

director	genre_count
Unknown Director	26
Alex Woo, Stanley Moore	1
Alexis AlmstrÃ¶m	1
Alice Waddington	1
Andy Devonshire	1
Antoine Fuqua	1
Ashwiny Iyer Tiwari, Abhishek Chaubey, Saket ...	1
Ben Simms	1

QUERIES

```sql
1   -- 14:- Identify the country with the most TV shows released after the year 2000,
2   --      and list the top 5 TV shows from that country by rating.
3 ⊖ WITH CountryCounts AS (
4     SELECT country, COUNT(*) AS show_count
5     FROM netflix_titles
6     WHERE release_year > 2000
7     GROUP BY country
8     ORDER BY show_count DESC limit 1)
9   SELECT t.title,t.country, t.rating
10  FROM netflix_titles t
11  INNER JOIN CountryCounts c ON t.country = c.country
12  ORDER BY t.rating DESC limit 5;
```

title	country	rating
Tayo and Little Wizards	Unknown Country	TV-Y7
Little Singham - Black Shadow	Unknown Country	TV-Y7
Firedrake the Silver Dragon	Unknown Country	TV-Y7
PokÃ©mon Master Journeys: The Series	Unknown Country	TV-Y7
Mighty Raju	Unknown Country	TV-Y7

CONCLUSION

In conclusion, our analysis of the Netflix Movies and TV Shows dataset has provided valuable insights into content distribution, geographical trends, genre popularity, and release patterns. These findings can inform strategic decisions, enhance content development, and improve user experience on the platform. By leveraging data analytics, we can better understand audience preferences and trends, positioning Netflix for continued success in the competitive streaming industry. Thank you for your attention.

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THANK YOU!

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