**Popular Content** 

Types

## Netflix Movies and TV Shows Analysis using SQL

data. The project aims to extract valuable insights by addressing specific business problems related to content distribution, ratings, geographical trends, and content categorization. The analysis provides a detailed understanding of the Netflix content landscape, including identifying popular content types, common ratings, top countries, and content characteristics based on keywords. The findings and conclusions summarize the key insights derived from the SQL queries, offering a clear picture of the content available on Netflix.

This document outlines a comprehensive SQL-based analysis of Netflix's movie and TV show

**SQL-Based Analysis of Netflix Content** 

```
Content Distribution
                                                                                                                Ratings Analysis
       Content
                                                                                                                                         Longest Movie
 Characteristics
                                                                       Netflix Content
                                                                          Analysis
                                                                                                                                       Keyword-Based
 Top Countries
                                                                                                                                       Analysis
                                                                                                                Content
                                                                                                                Categorization
                         Geographical Trends
Content Release
                                                                                                                                       Genre-Based Analysis
        Trends
                Objectives
```

**Common Ratings** 

**Business Problems and SQL Solutions** 

1. Analyze the distribution of content types (movies vs TV shows).

2. Identify the most common ratings for movies and TV shows.

1. Count the Number of Movies vs TV Shows

**Problem:** Determine the total count of movies and TV shows available on Netflix.

3. List and analyze content based on release years, countries, and durations.

4. Explore and categorize content based on specific criteria and keywords.

## FROM netflix\_titles

SELECT type, COUNT(\*) AS count

GROUP BY type;

**SQL Solution:** 

```
2. Find the Most Common Rating for Movies and TV Shows
Problem: Identify the most frequent rating given to movies and TV shows.
SQL Solution:
```

SELECT rating, COUNT(\*) AS count FROM netflix\_titles

```
Problem: Identify the top 5 countries that have the highest number of content items (movies
   SELECT country, COUNT(*) AS count
```

LIMIT 1;

ORDER BY CAST(REPLACE(duration, 'min', '') AS INTEGER) DESC

```
5. Identify the Longest Movie
Problem: Find the movie with the longest duration.
```

6. Find Content Added in the Last 5 Years

**SQL Solution:** 

dataset.

SELECT title, duration

FROM netflix\_titles

WHERE type = 'Movie'

SELECT title, date\_added

FROM netflix\_titles

added in the last 5 years.

SELECT title, type

FROM netflix\_titles

**SQL Solution:** 

**SQL Solution:** 

FROM netflix\_titles

GROUP BY listed\_in

India on netflix.

FROM netflix\_titles

**SQL Solution:** 

SELECT title

documentaries.

without a director listed.

SELECT COUNT(\*) AS movie\_count

AND cast LIKE '%Salman Khan%';

FROM netflix\_titles

WHERE type = 'Movie'

were released in the last 10 years.

FROM netflix\_titles

ORDER BY movie\_count DESC

GROUP BY cast

LIMIT 10;

**Keywords** 

SELECT title,

CASE

WHERE type = 'Movie' AND country = 'India'

have appeared in that were produced in India.

years'))

10 Years

GROUP BY release\_year;

ORDER BY count DESC;

SELECT listed\_in, COUNT(\*) AS count

SELECT title, duration

FROM netflix\_titles

WHERE director LIKE '%Rajiv Chilaka%';

years'));

```
Problem: List all content (movies and TV shows) that were added to Netflix in the last 5 years.
SQL Solution:
```

WHERE strftime('%Y', date(date\_added)) >= strftime('%Y', date('now', '-5

**Problem:** Retrieve all movies and TV shows directed by 'Rajiv Chilaka'. **SQL Solution:** 

```
8. List All TV Shows with More Than 5 Seasons
Problem: List all TV shows that have more than 5 seasons.
```

5;

**Expected Outcome:** This query will return a list of TV show titles and their durations for

WHERE type = 'TV Show' AND CAST(REPLACE(duration, 'Seasons', '') AS INTEGER) >

## Expected Outcome: This query will return a list of genres and the number of content items in each genre, sorted in descending order.

**Expected Outcome:** This query will return each year and the average number of content releases in India for that year.

SELECT strftime('%Y', date(release\_year)) AS release\_year, AVG(CASE WHEN country

10. Find each year and the average numbers of content release in

```
12. Find All Content Without a Director
Problem: Identify all content items (movies and TV shows) that do not have a director listed.
SQL Solution:
  SELECT title, type
   FROM netflix_titles
```

```
14. Find the Top 10 Actors Who Have Appeared in the Highest
Number of Movies Produced in India
Problem: Identify the top 10 actors who have appeared in the highest number of movies
produced in India.
```

**Problem:** Categorize content items based on whether their descriptions contain the keywords 'kill' or 'violence'.

Expected Outcome: This query will return the top 10 actors and the number of movies they

15. Categorize Content Based on the Presence of 'Kill' and 'Violence'

ELSE 'None' END AS keyword\_category FROM netflix\_titles WHERE description LIKE '%kill%' OR description LIKE '%violence%';

WHEN description LIKE '%violence%' THEN 'Violence'

WHEN description LIKE '%kill%' THEN 'Kill'

```
Findings and Conclusion
```

- The SQL analysis of the Netflix dataset provides several key insights: • Content Distribution: The dataset contains a diverse range of movies and TV shows,
- with a significant number of both types available on the platform. • Common Ratings: The analysis of ratings provides an understanding of the content's target audience, with certain ratings being more prevalent than others. • Geographical Insights: The identification of top countries and the average content
- discovery and recommendations.

Expected Outcome: This query will return two rows, one for "Movie" and one for "TV Show," along with the respective counts.

```
SELECT title
FROM netflix_titles
WHERE type = 'Movie' AND strftime('%Y', date(release_year)) = '2020';
```

# Expected Outcome: This query will return the title and duration of the longest movie in the

7. Find All Movies/TV Shows by Director 'Rajiv Chilaka'

**Expected Outcome:** This query will return a list of titles and their addition dates for content

```
Expected Outcome: This query will return a list of titles and their types (Movie or TV Show)
directed by Rajiv Chilaka.
```

shows with more than 5 seasons. 9. Count the Number of Content Items in Each Genre

**Problem:** Determine the number of content items (movies and TV shows) in each genre.

## **Problem:** Determine the average number of content releases in India for each year on Netflix. **SQL Solution:**

= 'India' THEN 1 ELSE 0 END) AS avg\_releases

11. List All Movies that are Documentaries

WHERE director IS NULL OR director = '';

**Problem:** Retrieve a list of all movies that are classified as documentaries.

FROM netflix\_titles WHERE type = 'Movie' AND listed\_in LIKE '%Documentaries%';

Expected Outcome: This query will return a list of movie titles that are classified as

```
last 10 years.
SQL Solution:
```

AND strftime('%Y', date(release\_year)) >= strftime('%Y', date('now', '-10

**Expected Outcome:** This query will return the number of movies featuring Salman Khan that

**Expected Outcome:** This query will return a list of titles and their types for content items

13. Find How Many Movies Actor 'Salman Khan' Appeared in the Last

Problem: Determine the number of movies in which the actor 'Salman Khan' appeared in the

**SQL Solution:** SELECT cast, COUNT(\*) AS movie\_count

**SQL Solution:** 

Expected Outcome: This query will return a list of titles and their corresponding keyword categories ('Kill', 'Violence', or 'None') based on the presence of the specified keywords in their descriptions.

releases by India highlight regional content distribution and preferences. • Content Categorization: Categorizing content based on specific keywords helps in understanding the nature of content available on Netflix, allowing for targeted content

In conclusion, this project successfully utilized SQL to extract valuable insights

GROUP BY rating ORDER BY count DESC LIMIT 1; **Expected Outcome:** This query will return the rating that appears most often in the dataset, indicating the most common rating. 3. List All Movies Released in a Specific Year (e.g., 2020) **Problem:** Retrieve a list of all movies released in the year 2020. **SQL Solution:** Expected Outcome: This query will return a list of movie titles that were released in the year 2020. 4. Find the Top 5 Countries with the Most Content on Netflix and TV shows) on Netflix. **SQL Solution:** FROM netflix\_titles GROUP BY country ORDER BY count DESC LIMIT 5; **Expected Outcome:** This query will return the top 5 countries along with the number of content items from each country.