Purpose of the assignment:

- Apply SQL to analyze the given data and give recommendations to RSVP Movies based on the insights.
- Gain of insights into analytics within the film industry domain using the industry's historical data.
- Hands on experience on how data is analyzed and recommend production company to plan a movie for the global audience in 2022.

Core Objective:

- RSVP Movies, an Indian film production company, has a successful track record of producing super-hit movies primarily for the Indian audience.
- They are now planning to release a movie targeting the global audience in 2022 and seek analytical insights to guide their decision-making process.
- As a data analyst and SQL expert, there is a need to analyze three years' (2017-2019) movie data and provide meaningful recommendations for their new project.
- Using SQL, focusing on different combinations of tables, require to extract insights that will assist RSVP Movies in their new project.

Primary Inputs to begin with:

- Given below 6 tables:
 - 1. 'movie' contains all the information of a movie such as title, date published, country, language of the film and worldwide gross income.
 - 2. 'genre' contains information about the movie genre.
 - 3. 'ratings' contains information about average and median rating of the movies along with the total no. of votes obtained.
 - 4. 'names' contains individual movie cast and crew personal demographic information.
 - 'director_mapping' contains information about director of each movie that has been released.
 - **6.** 'role_mapping' contains name details of actor and actresses.

Observations:

- 1. Movie production has been declining year after year, with 3,052 movies in 2017, followed by a 3.5% decline in 2018 and a significant 32% drop in 2019.
- 2. The trend indicates that March is the month with the highest number of movie releases (824), while December has the fewest (438).
- 3. In 2019, 44.3% of movies were produced solely by India and the USA.
- 4. The drama genre had the highest contribution, with 1,078 movies produced in 2019.
- 5. A total of 3,289 movies produced over three years belong to a single genre category.
- 6. On average, each genre category has a movie runtime ranging from 90 to 115 minutes.
- 7. Movie ratings vary from a minimum average of 1 to a maximum average of 10, with 65% of movies falling between the ratings of 6 and 8.
- 8. "Kirket" and "Love in Kilnerry" are two movies with an average rating of 10.
- 9. "Dream Warrior Pictures" and "National Theatre Live" are the top two production houses with the highest number of hit movies, having an average rating greater than 8.
- 10. Between April 2018 and April 2019, 361 movies were produced with a median rating of 8.
- 11. German movies received 72.7% more votes than Italian movies.
- 12. The top three directors who have made the most movies in the drama, action, and comedy genres are "Anthony Russo", "James Mangold", and "Joe Russo".
- 13. "Mammootty" and "Mohanlal" are the top two actors with an average median rating of 8.
- 14. "Marvel Studios", "Twentieth Century Fox", and "Warner Bros." are the top three production houses with the highest number of votes.
- 15. Among the available Indian actors, "Vijay Sethupathi" tops the list with an average rating of 8.2 and has acted at least in 5 Indian movies.
- 16. "Taapsee Pannu", "Kriti Sanon", "Divya Dutta", "Shraddha Kapoor", and "Kriti Kharbanda" are the top five Hindi actresses in India who have appeared at least in 3 Indian movies, with average ratings ranging from 7.74 to 4.80.
- 17. Generally, "thriller" movies have shown fewer hits and super hits, with the majority being considered as one-time watch.
- 18. In **2019**, the **top-grossing movie** was "Avengers: Endgame" with \$2.79 billion of drama genre, followed by "Bohemian Rhapsody" (2018) with a gross of INR 0.9 billion of drama genre, and finally "The Fate of the Furious" (2017) in the thriller genre with a gross of \$1.23 billion.
- 19. "Star Cinema" and "Twentieth Century Fox" are the top two production companies that have produced multilingual movies.
- 20. "Amanda Lawrence", "Denise Gough", and "Parvathy Thiruvothu" are the top three actresses with the greatest number of Super Hit movies in the drama genre.
- 21. "Steven Soderbergh", "Sam Liu", and "Sion Sono" are the top three directors with the highest average ratings for their movies across all genres.

Recommendations to RSVP production house (Executive Summary):

- 1. To maximize gross revenue and face less competition from other movies, it is advisable to **release the new film in December**, considering historical trends which show this month has the lowest number of movie releases.
- 2. Since **India and the USA** are significant contributors to the film industry, it is essential to **target audiences** from these countries and involve a **mix of Indian and American technicians** in the film production process.
- 3. As the analysis suggests that the **Drama genre is widely accepted**, it would be beneficial to choose a movie that falls within this genre and has an **average runtime of 100-110 minutes**.
- 4. The following production companies can serve as valuable references for planning the new film and its production process:
 - "Dream Warrior Pictures" and "National Theatre Live" for capturing the desired vibe and running style, as these production companies have produced the highest number of hit movies.
 - "Star Cinema" and "Twentieth Century Fox" to understand production standards, staffing of technicians, and maintenance during the movie shoot, given their expertise in delivering multilingual movies.
- 5. Considering German dubbed language as an additional target audience, it is worthwhile to **release the movie with a German language option**.
- **6. Collaborate** with either of the three **top renowned production companies as global partners** to gain additional global reach and exposure considering these companies received highest number of votes:
 - "Marvel Studios" or "Twentieth Century Fox" or "Warner Bros."
- 7. The following **casting combination** can help achieve quick and extensive reach among the global audience, leading to higher profits:
 - Actor: "Mammootty" or "Mohanlal"
 - Actress: "Amanda Lawrence," "Denise Gough," or "Parvathy Thiruvothu"
 - Director: "Anthony Russo," "James Mangold," or "Joe Russo"