## **IMDB DATASET SUMMARY**

After analysing the dataset, insights are as follows:

- There is no information of Worldwide gross income for 3724 movies.
- ➤ Most number of movies were produced in 2017 and quantity of movies produced is decreased in following years.

```
SELECT year,

Count(title) AS number_of_movies

FROM movie

GROUP BY year;
```

Most number of movies were most likely to be released in March. This might help in predicting the competition.

Overall highest number of movies produced belongs to 'Drama' Genre followed by 'Comedy' & 'Thriller' and hence, RSVP Movies should primarily focus on the 'Drama' genre.

```
SELECT genre,

Count(movie_id) AS no_of_movies

FROM movie AS m

INNER JOIN genre AS g

ON m.id = g.movie_id

GROUP BY genre

ORDER BY no_of_movies DESC

LIMIT 1;
```

As per 2019 data, 'Action' & 'Drama' genres have average duration of 113 & 107 minutes respectively. This might decide the duration of future movie to be produced.

```
SELECT genre,

Round(Avg(duration), 2) AS avg_duration

FROM movie AS m

INNER JOIN genre AS g

ON m.id = g.movie_id

GROUP BY genre

ORDER BY avg_duration DESC;
```

➤ Dream Warrior Pictures (Rank 1), National Theatre Live (Rank 2) or both can be considered by RSVP Movies as their production company as they have produced the greatest number of hit movies with an average rating of more than 8.

```
SELECT production_company,

Count(id) AS movie_count,

Dense_rank() OVER (ORDER BY Count(id) DESC) AS prod_company_rank

FROM movie AS m

INNER JOIN ratings AS r

ON m.id = r.movie_id

WHERE avg_rating > 8

GROUP BY production_company limit 5;
```

➤ Based on the number of votes received - Marvel Studios, Twentieth Century Fox & Warner Bros. are the top three production houses that can be considered by RSVP.

```
SELECT m.production_company,

Sum(r.total_votes) AS vote_count,

Dense_rank() OVER (ORDER BY Sum(r.total_votes) DESC) AS prod_comp_rank

FROM movie AS m

INNER JOIN ratings AS r

ON m.id = r.movie_id

GROUP BY m.production_company limit 3;
```

➤ If multi-lingual movie is being considered, then Star Cinema and Twentieth Century Fox can be considered as production houses as they produced the highest number of hits with an average rating of more than 8

```
SELECT
         production_company,
         Count(movie_id)
                                                          AS movie_count,
         Dense_rank() OVER(ORDER BY Count(movie_id) DESC) AS prod_comp_rank
         movie
                                                           AS m
FROM
         ratings
JOIN
                                                          AS r
         m.id = r.movie_id
ON
WHERE
         r.median_rating >= 8
AND
         m.production_company IS NOT NULL
         position(',' IN m.languages) > 0
AND
GROUP BY m.production_company limit 2;
```

James Mangold, Anthony Russo and Soubin Shahir are the top three directors in the top three genres whose movies have an average rating
 8. Hence one of these can be hired as the director for RSVP's next project.

```
WITH top 3 genres AS
Ç.
        SELECT
                 genre,
                 Count(g.movie 1d) A5 movie counts
        FROM
                 genne
                                   A5 &
        JOIN
                ratings
                                   A5 F
        ON
                 g.movie_id = r.movie_id
        WHERE
                avg rating > 8
        GROUP BY g.genre
        ORDER BY movie counts DESC limit 1 )
SELECT
        n.NAME
                          AS director name,
        Count(g,movie id) A5 movie count
FROM
        names
                          AS n
JOIN
        director mapping AS d
ON
        n.id = d.name id
        genre AS g
JOIN
        d.movie Id = g.movie Id
ON
        ratings AS r
JOIN
        r.movie id = g.movie id,
ON
        top 3 genres
WHERE
        g.genre IN (top 3 genres.genre)
AMD
        avg_rating > 8
GROUP BY director name
ORDER BY movie count DESC limit 3;
```

> Mammootty and Mohanlal are the top two actors based on median rating. Hence hiring one of them favours RSVP.

```
SELECT DISTINCT name

Count(r.movie_id) AS movie_count

FROM ratings AS r

INNER JOIN role_mapping AS rm

ON r.movie_id = rm.movie_id

INNER JOIN names AS n

ON rm.name_id = n.id

WHERE r.median_rating >= 8

AND rm.category = 'actor'

GROUP BY n.name

ORDER BY movie_count DESC

LIMIT 2;
```

➤ Based on the movie count, average rating and Indian as criteria, Vijay Sethupathi can be hired as the additional actor for the next project.

```
WITH indian_actor_rank
     AS (SELECT n. NAME,
                Sum(total_votes)
                                                                            AS.
                   total_votes,
                Count(r.movie_id)
                                                                            AS.
                   movie count,
                Round(Sum(avg rating * total votes) / Sum(total votes), 2) AS
                   actor_avg_rating
         FROM movie AS m
                JOIN ratings AS r
                  ON m.id = r.movie id
                JOIN role mapping AS rm
                 ON m.id = rm.movie id
                JOIN names AS n
                 ON rm.name 1d = n.id
         WHERE country LIKE 'India'
                AND category = 'actor'
         GROUP BY NAME)
SELECT *.
       Rank()
         OVER (
           ORDER BY actor avg rating DESC, total votes DESC) AS actor rank
       indian actor rank
FROM
WHERE movie_count >= 5;
```

➤ Based on movie count, average rating and Indian as criteria, Taapsee Pannu can be hired as the actress for the next project.

```
NAME AS actress_name,
        total_votes,
        Count(m.id)
                                                                            AS movie_count,
        Round(Sum(avg_rating*total_votes)/Sum(total_votes),2)
                                                                            AS actress_avg_rating,
        Dense_rank() OVER (ORDER BY Avg(avg_rating) DESC, total_votes DESC) AS actress_rank
        names
                                                                            AS n
FROM
       role_mapping
                                                                            AS rm
JOIN
       n.id = rm.name id
JOIN
       ratings AS r
ON
        rm.movie_id = r.movie_id
        movie AS m
JOIN
        r.movie_id = m.id
WHERE category = "actress"
        country LIKE "%India%"
        languages LIKE "%Hindi%"
AND
GROUP BY NAME
HAVING Count(m.id) >= 3 limit 5;
```

➤ Parvathy Thiruvothu, Susan Brown & Amanda Lawrence are the top 3 actresses respectively based on number of Super Hit movies (average rating >8) in 'Drama' genre. If movie is planned to be 'Drama' genre, then considering one of them will be a plus for RSVP movies.

```
WITH top AS
⊖ (
              SELECT
                                          AS actress_name,
                         Sum(total_votes) AS total_votes,
                         Count(m.id)
                                          AS movie_count,
                         r.avg_rating
                        names AS n
              FROM
              INNER JOIN role mapping ro
                        n.id = ro.name_id
              INNER JOIN ratings r
                         ro.movie_id = r.movie_id
              INNER JOIN movie m
                        m.id = r.movie_id
              INNER JOIN genre g
              ON
                         m.id = g.movie_id
                        category = 'Actress'
              WHERE
              AND
                       genre = 'Drama'
                        avg_rating > 8
              AND
              GROUP BY actress_name )
  SELECT
            Dense_rank () OVER ( ORDER BY movie_count DESC) AS actress_rank
   FROM
           top LIMIT 3;
```