

RSVP Movies Case Study

The following number of rows are present in the respective tables given in the schema:

Name of the Table	Number of rows
director_mapping	3867
genre	14662
movie	7530
names	30332
ratings	7927
role_mapping	16016

Null Count: Four columns of the movie table has null values, they are :

Column Name
title
year
date_published
duration

Number of movies released year wise: The highest number of movies is produced in the year of 2017

Year	Number of Movies
2017	3052
2018	2944
2019	2001

Number of movies released month wise: The highest number of movies is produced in the month of March

Month	Number of Movies
January	804
February	640
March	824
April	680
May	625
June	580
July	493
August	678
September	809
October	801
November	625
December	438

USA and India produced more than a thousand movies (1059) in the year 2019.

RSVP Movies plans to make a movie of one of these genres:

Drama

Fantasy

Thriller

Comedy

Horror

Family

Romance

Adventure

Action

Sci-Fi

Crime

Mystery

Others

Drama genre had the highest number of movies (4285) produced overall.

There are more than three thousand movies (3289) which has only one genre associated with them.

Duration of movies genre wise: Movies of genre 'Drama' (produced highest in number in 2019) has the average duration of 106.7746 mins.

Genre	Average Duration(in mins)
Action	112.8829
Adventure	101.8714
Comedy	102.6227
Crime	107.0517
Drama	106.7746
Family	100.9669
Fantasy	105.1404
Horror	92.7243
Mystery	101.8000
Romance	109.5342
Sci-Fi	97.9413
Thriller	101.5761
Others	100.1600

Thriller movies is ranked 3rd among all genres in terms of number of movies with 1484 number of movies produced.

The minimum and maximum values in each column of the ratings table are in the expected range. This implies there are no outliers in the table.

Top 10 movies based on average rating:

title	avg_rating	movie_rank
Kirket	10.0	1
Love in Kilnerry	10.0	2
Gini Helida Kathe	9.8	3
Runam	9.7	4
Fan	9.6	5
Android Kunjappan Version 5.25	9.6	6
Yeh Suhaagraat Impossible	9.5	7
Safe	9.5	8
The Brighton Miracle	9.5	9
Shibu	9.4	10

Movie counts by median rating: Most movies are rated in the range of 6 to 8 .

median_rating	movie_count
7	2257
6	1975
8	1030
5	985
4	479
9	429
10	346
3	283
2	119
1	94

Dream Warrior Pictures and National Theatre Live had produced most hit movies (average rating > 8)

production_company	movie_count
Dream Warrior Pictures	3
National Theatre Live	3
Lietuvos Kinostudija	2
Swadharm Entertainment	2
Panorama Studios	2
Marvel Studios	2
Central Base Productions	2
Painted Creek Productions	2
National Theatre	2
Colour Yellow Productions	2
The Archers	1
Blaze Film Enterprises	1
Bradeway Pictures	1

Number of movies released in each genre during March 2017 in the USA had more than 1,000 votes

genre	movie_count
Drama	24
Comedy	9
Action	8
Thriller	8
Sci-Fi	7
Crime	6
Horror	6
Mystery	4
Romance	4
Fantasy	3
Adventure	3
Family	1

Movies of each genre that start with the word 'The' and which have an average rating > 8 .

title	avg_rating	genre
The Brighton Mirade	9.5	Drama
The Colour of Darkness	9.1	Drama
The Blue Elephant 2	8.8	Drama
The Blue Elephant 2	8.8	Horror
The Blue Elephant 2	8.8	Mystery
The Irishman	8.7	Crime
The Irishman	8.7	Drama
The Mystery of Godliness: The Sequel	8.5	Drama
The Gambinos	8.4	Crime
The Gambinos	8.4	Drama
Theeran Adhigaaram Ondru	8.3	Action
Theeran Adhigaaram Ondru	8.3	Crime
Theeran Adhigaaram Ondru	8.3	Thriller

361 Movies released between 1 April 2018 and 1 April 2019 , were given a median rating of 8.

German movies get more votes (106710) than Italian movies (77965).

Top three directors in the top three genres whose movies have an average rating > 8

	director_name	movie_count
▶	James Mangold	4
	Joe Russo	3
	Anthony Russo	3

Top two actors whose movies have a median rating ≥ 8

	actor_name	movie_count
►	Mammootty	8
	Mohanlal	5

The top three production houses based on the number of votes received by their movies

	production_company	vote_count	prod_comp_rank
▶	Marvel Studios	2656967	1
	Twentieth Century Fox	2411163	2
	Warner Bros.	2396057	3

Ranking of actors with movies released in India based on their average ratings.

actor_name	total_votes	movie_count	actor_avg_rating	actor_rank
Vijay Sethupathi	23114	5	8.41673	1
Fahadh Faasil	13557	5	7.98604	2
Yogi Babu	8500	11	7.83018	3
Joju George	3926	5	7.57967	4
Ammy Virk	2504	6	7.55383	5
Dileesh Pothan	6235	5	7.52133	6
Kunchacko Boban	5628	6	7.48351	7
Pankaj Tripathi	40728	5	7.43706	8
Rajkummar Rao	42560	6	7.36701	9
Dulquer Salmaan	17666	5	7.30087	10
Amit Sadh	13355	5	7.21306	11
Tovino Thomas	11596	8	7.1454	12
Mammooty	12613	8	7.04208	13
Nassar	4016	5	7.03312	14
Karamjit Anmol	1970	6	6.90863	15
Hareesh Kanaran	3196	5	6.57747	16
Naseeruddin Shah	12604	5	6.53622	17
Anandraj	2750	6	6.53571	18
Mohanlal	17244	6	6.5084	19
Aju Varghese	2237	5	6.43375	20
Siddique	5953	7	6.42565	21
Prakash Raj	8548	6	6.37126	22
Jimmy Sheirgill	3826	6	6.28772	23
Mahesh Achanta	2716	6	6.21141	24
Biju Menon	1916	5	6.21091	25
Suraj Venjaramoodu	4284	6	6.18625	26
Abir Chatterjee	1413	5	5.80078	27
Sunny Deol	4594	5	5.70509	28
Radha Ravi	1483	5	5.70223	29
Prabhu Deva	2044	5	5.68014	30

Top five actresses in Hindi movies released in India based on their average ratings.

	actress_name	total_votes	movie_count	actress_avg_rating	actress_rank
►	Taapsee Pannu	18061	3	7.74	1
	Kriti Sanon	21967	3	7.05	2
	Divya Dutta	8579	3	6.88	3
	Shraddha Kapoor	26779	3	6.63	4
	Kriti Kharbanda	2549	3	4.80	5

Ranking thriller movies having at least 25,000 votes and classifying them according to the following categories :

Rating > 8: Superhit

Rating between 7 and 8: Hit

Rating between 5 and 7: One-time-watch

Rating < 5: Flop

movie_name	movie_category
Joker	Superhit
Andhadhun	Superhit
Ah-ga-ssi	Superhit
Contratiempo	Superhit
Mission: Impossible – Fallout	Hit
Forushande	Hit
Get Out	Hit
Searching	Hit
Hotel Mumbai	Hit
John Wick: Chapter 3 – Parabellum	Hit
John Wick: Chapter 2	Hit
Miss Sloane	Hit
Den skyldige	Hit
Shot Caller	Hit
Good Time	Hit
Split	Hit
Brimstone	Hit
Elle	Hit
First Reformed	Hit
The Foreigner	Hit
The Killing of a Sacred Deer	Hit
The Mule	Hit
Widows	One-time-watch
Us	One-time-watch
The Autopsy of Jane Doe	One-time-watch
Venom	One-time-watch
Atomic Blonde	One-time-watch
Jungle	One-time-watch
The Equalizer 2	One-time-watch
The Fate of the Furious	One-time-watch
Thoroughbreds	One-time-watch
Glass	One-time-watch
Halloween	One-time-watch
Hunter Killer	One-time-watch
Red Sparrow	One-time-watch
Life	One-time-watch
Anna	One-time-watch
Annabelle: Creation	One-time-watch
Happy Death Day	One-time-watch

Peppermint	One-time-watch
Alien: Covenant	One-time-watch
Roman J. Israel, Esq.	One-time-watch
The Commuter	One-time-watch
Fractured	One-time-watch
The Beguiled	One-time-watch
The Ritual	One-time-watch
Revenge	One-time-watch
American Assassin	One-time-watch
Scary Stories to Tell in the Dark	One-time-watch
Maze Runner: The Death Cure	One-time-watch
The Belko Experiment	One-time-watch
Mile 22	One-time-watch
The Perfection	One-time-watch
Captive State	One-time-watch
Kidnap	One-time-watch
Annabelle Comes Home	One-time-watch
Pet Sematary	One-time-watch
Jigsaw	One-time-watch
Skyscraper	One-time-watch
Would You Rather	One-time-watch
Insidious: The Last Key	One-time-watch
Velvet Buzzsaw	One-time-watch
Sleepless	One-time-watch
In the Tall Grass	One-time-watch
Mute	One-time-watch
The Curse of La Llorona	One-time-watch
Geostorm	One-time-watch
The Circle	One-time-watch
Robin Hood	One-time-watch
The Nun	One-time-watch
Serenity	One-time-watch
xx: Return of Xander Cage	One-time-watch
Rough Night	One-time-watch
Truth or Dare	One-time-watch
Fifty Shades Freed	Flop
The Open House	Flop
Race 3	Flop

Genre-wise running total and moving average of the average movie duration: Action movies have the longest duration followed by adventure and comedy movies whereas Sci-Fi and Thriller movies have the shortest running duration.

	genre	avg_duration	running_total_duration	moving_avg_duration
►	Action	112.88	112.88	112.88
	Adventure	101.87	214.75	107.38
	Comedy	102.62	317.37	105.79
	Crime	107.05	424.42	106.11
	Drama	106.77	531.19	106.24
	Family	100.97	632.16	105.36
	Fantasy	105.14	737.30	105.33
	Horror	92.72	830.02	103.75
	Mystery	101.80	931.82	103.54
	Others	100.16	1031.98	103.20
	Romance	109.53	1141.51	103.77
	Sci-Fi	97.94	1239.45	103.29
	Thriller	101.58	1341.03	103.16

Five highest-grossing movies of each year that belong to the top three genres.

	genre	year	title	worldwide_gross_income	movie_rank
►	Drama	2017	Shatamanam Bhavati	INR 530500000	1
	Drama	2017	Winner	INR 250000000	2
	Drama	2017	Thank You for Your Service	\$ 9995692	3
	Comedy	2017	The Healer	\$ 9979800	4
	Drama	2017	The Healer	\$ 9979800	5
	Thriller	2018	The Villain	INR 1300000000	1
	Drama	2018	Antony & Cleopatra	\$ 998079	2
	Comedy	2018	La fuitina sbagliata	\$ 992070	3
	Drama	2018	Zaba	\$ 991	4
	Comedy	2018	Gung-hab	\$ 9899017	5
	Thriller	2019	Prescience	\$ 9956	1
	Thriller	2019	Joker	\$ 995064593	2
	Drama	2019	Joker	\$ 995064593	3
	Comedy	2019	Eaten by Lions	\$ 99276	4
	Comedy	2019	Friend Zone	\$ 9894885	5

Star Cinema and Twentieth Century Fox have produced the highest number of hits (median rating ≥ 8) among multilingual movies.

Top 3 actresses based on the number of Super Hit movies (Superhit movie: average rating of movie > 8) in 'drama' genre.

	actress_name	total_votes	movie_count	actress_avg_rating	actress_rank
▶	Amanda Lawrence	656	2	8.94436	1
	Denise Gough	656	2	8.94436	2
	Susan Brown	656	2	8.94436	3

Details for top 9 directors (based on number of movies)

	director_id	director_name	number_of_movies	avg_inter_movie_days	avg_rating	total_votes	min_rating	max_rating	total_duration
►	nm2096009	Andrew Jones	5	190.75	3.02	1989	2.7	3.2	432
	nm1777967	A.L. Vijay	5	176.75	5.42	1754	3.7	6.9	613
	nm0814469	Sion Sono	4	331.00	6.03	2972	5.4	6.4	502
	nm0831321	Chris Stokes	4	198.33	4.33	3664	4.0	4.6	352
	nm0515005	Sam Liu	4	260.33	6.23	28557	5.8	6.7	312
	nm0001752	Steven Soderbergh	4	254.33	6.48	171684	6.2	7.0	401
	nm0425364	Jesse V. Johnson	4	299.00	5.45	14778	4.2	6.5	383
	nm2691863	Justin Price	4	315.00	4.50	5343	3.0	5.8	346
	nm6356309	Özgür Bakar	4	112.00	3.75	1092	3.1	4.9	374