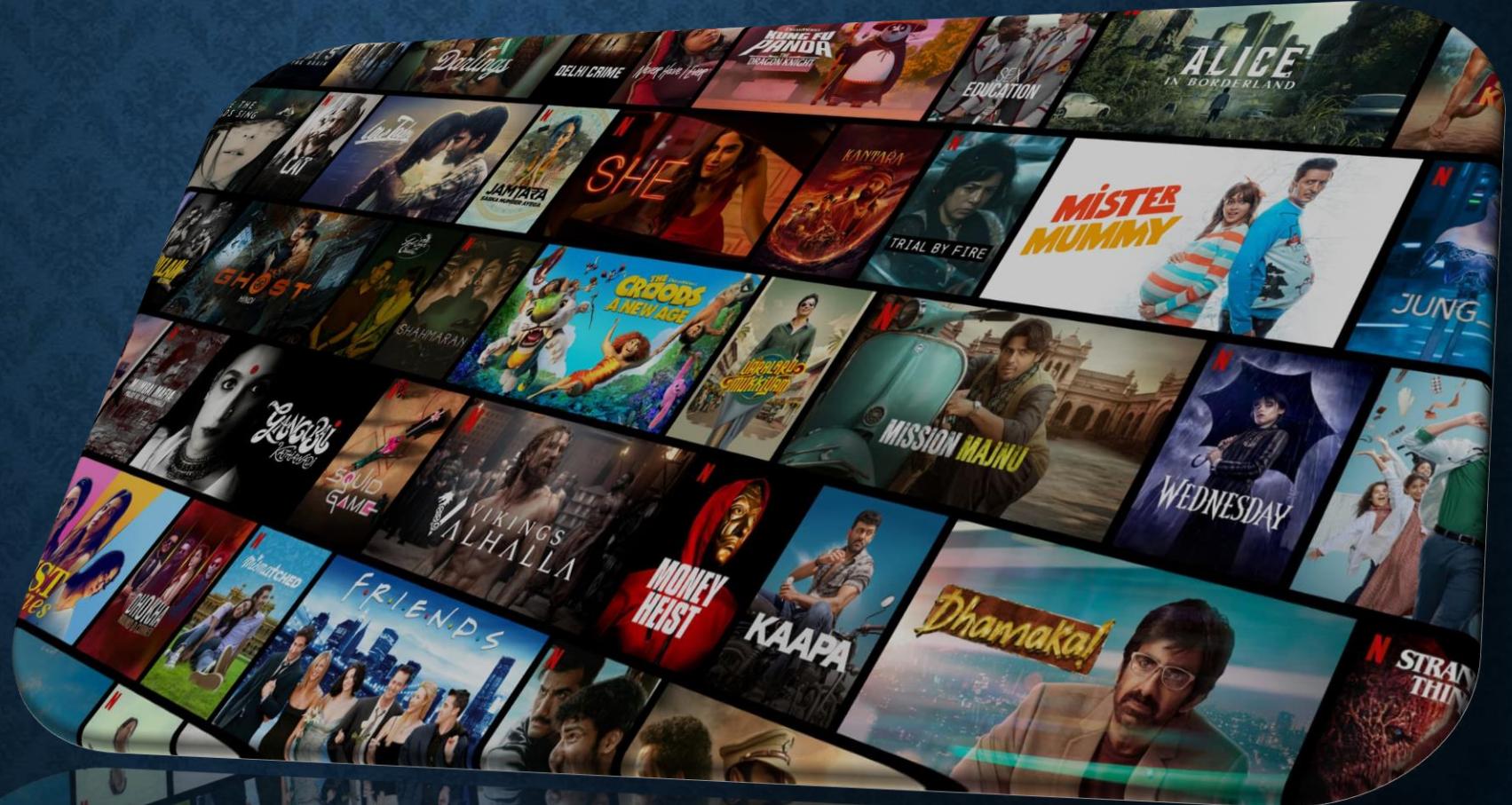




[Trilochan Tripathy](#)



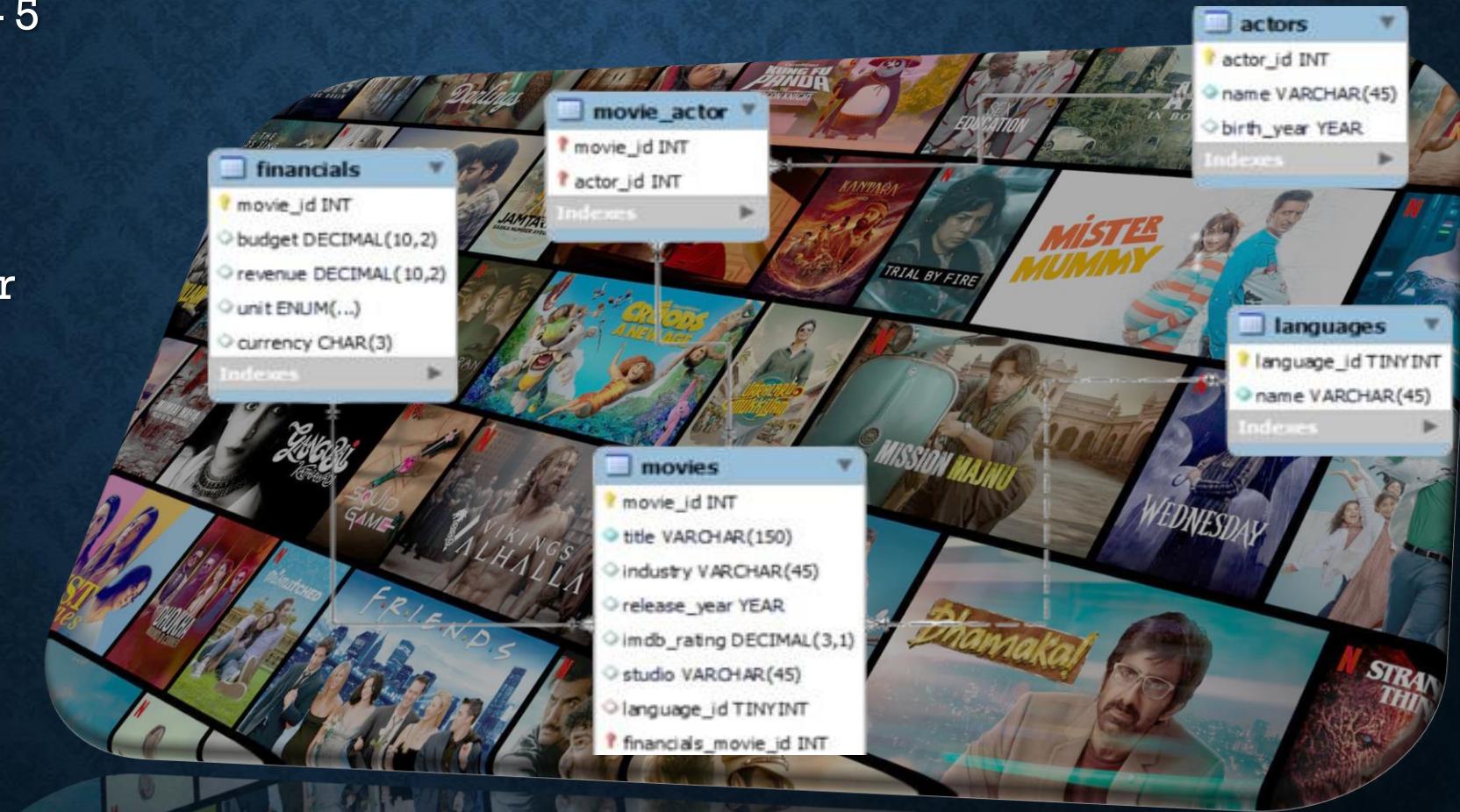
# Movies Data Analysis SQL



[GitHub Profile](#)

# TABLE OVERVIEW:-

- Total tables – 5
  - actors
  - financials
  - languages
  - movie\_actor
  - movies



**SELECT \* FROM movies;**

movie_id	title	industry	release_year	imdb_rating	studio	language_id
101	K.G.F: Chapter 2	Bollywood	2022	8.4	Hombale Films	3
102	Doctor Strange in the Multiverse of Madness	Hollywood	2022	7.0	Marvel Studios	5
103	Thor: The Dark World	Hollywood	2013	6.8	Marvel Studios	5
104	Thor: Ragnarok	Hollywood	2017	7.9	Marvel Studios	5
105	Thor: Love and Thunder	Hollywood	2022	6.8	Marvel Studios	5
106	Sholay	Bollywood	1975	8.1	United Producers	1
107	Dilwale Dulhania Le Jayenge	Bollywood	1995	8.0	Yash Raj Films	1
108	Deewar	Bollywood	1975	8.0	Sony Pictures	1
109	Yeh Jawaani Hai Deewani	Bollywood	2012	8.0	Yash Raj Films	1
110	RRR	Bollywood	2022	8.0	RRR Pictures	1
111	Leisure	Bollywood	2022	8.0	RRR Pictures	1

**SELECT \* FROM actors;**

actor_id	name	birth_year
50	Yash	1986
51	Sanjay Dutt	1959
52	Benedict Cumberbatch	1976
53	Elizabeth Olsen	1989
54	Chris Hemsworth	1983
55	Natalie Portman	1981
56	Tom Hiddleston	1981
57	Amitabh Bachchan	1942
58	Jaya Bachchan	1948
59	Shah Rukh Khan	1965
60	Salma Hayek	1966
61	Penelope Cruz	1974
62	Naomi Watts	1968
63	Keira Knightley	1982
64	Keisha Castle-Byers	1995
65	Alia Bhatt	1996
66	Varun Dhawan	1990
67	Arjun Kapoor	1990
68	Shraddha Kapoor	1994
69	Parineeti Chopra	1990
70	Varun Tej	1990
71	Prabhas	1990
72	Shivin Narang	1990
73	Shruti Haasan	1990
74	Shriya Saran	1990
75	Shruti Pathak	1990
76	Shruti Seth	1990
77	Shruti Ulfat	1990
78	Shruti Ulfat	1990
79	Shruti Ulfat	1990
80	Shruti Ulfat	1990
81	Shruti Ulfat	1990
82	Shruti Ulfat	1990
83	Shruti Ulfat	1990
84	Shruti Ulfat	1990
85	Shruti Ulfat	1990
86	Shruti Ulfat	1990
87	Shruti Ulfat	1990
88	Shruti Ulfat	1990
89	Shruti Ulfat	1990
90	Shruti Ulfat	1990
91	Shruti Ulfat	1990
92	Shruti Ulfat	1990
93	Shruti Ulfat	1990
94	Shruti Ulfat	1990
95	Shruti Ulfat	1990
96	Shruti Ulfat	1990
97	Shruti Ulfat	1990
98	Shruti Ulfat	1990
99	Shruti Ulfat	1990
100	Shruti Ulfat	1990
101	Shruti Ulfat	1990
102	Shruti Ulfat	1990
103	Shruti Ulfat	1990
104	Shruti Ulfat	1990
105	Shruti Ulfat	1990
106	Shruti Ulfat	1990
107	Shruti Ulfat	1990
108	Shruti Ulfat	1990
109	Shruti Ulfat	1990
110	Shruti Ulfat	1990
111	Shruti Ulfat	1990

**SELECT \* FROM financials;**

movie_id	budget	revenue	unit	currency
101	1.00	12.50	Billions	INR
102	200.00	954.80	Millions	USD
103	165.00	644.80	Millions	USD
104	180.00	854.00	Millions	USD
105	250.00	670.00	Millions	USD
107	400.00	2000.00	Millions	INR
108	550.00	4000.00	Millions	INR
109	390.00	1360.00	Millions	INR
110	1.40	3.50	Billions	INR
111	25.00	73.30	Millions	USD

**SELECT \* FROM languages;**

language_id	name
7	Bengali
5	English
6	French
8	Gujarati
1	Hindi
3	Kannada
4	Tamil
2	Telugu
5	Urdu

**SELECT \* FROM movie\_actor;**

movie_id	actor_id
101	50
101	51
102	52
102	53
103	54
103	55
103	56
104	54
104	56
105	54
105	24
105	26

-- GET MOVIE TITLE AND INDUSTRY FOR ALL THE MOVIES



Trilochan Tripathy

**SELECT title,industry FROM movies**

title	industry
K.G.F: Chapter 2	Bollywood
Doctor Strange in the Multiverse of Madness	Hollywood
Thor: The Dark World	Hollywood
Thor: Ragnarok	Hollywood
Thor: Love and Thunder	Hollywood
Sholay	Bollywood
Dilwale Dulhania Le Jayenge	Bollywood
3 Idiots	Bollywood
Kabhi Khushi Kabhie Gham	Bollywood



-- PRINT ALL MOVES FROM HOLLYWOOD

**SELECT \* FROM movies WHERE industry = "Hollywood";**

movie_id	title	industry	release_year	imdb_rating	studio	language_id
102	Doctor Strange in the Multiverse of Madness	Hollywood	2022	7.0	Marvel Studios	5
103	Thor: The Dark World	Hollywood	2013	6.8	Marvel Studios	5
104	Thor: Ragnarok	Hollywood	2017	7.9	Marvel Studios	5
105	Thor: Love and Thunder	Hollywood	2022	6.8	Marvel Studios	5
111	The Shawshank Redemption	Hollywood	1994	9.3	Castle Rock Entertainment	5
112	Inception	Hollywood	2010	8.8	Warner Bros. Pictures	5
113	Interstellar	Hollywood	2014	8.6	Warner Bros. Pictures	5
115	The Pursuit of Happyness	Hollywood	2006	8.0	Columbia Pictures	5
116	Gladiator	Hollywood	2000	8.5	Universal Pictures	5
117	Titanic	Hollywood	1997	7.9	Paramount Pictures	5

-- HOW MANY MOVIES ARE PRESENT INDUSTRY WISE IN THE DATABASE?

```
SELECT industry, COUNT(*) AS Count_of_Movies  
FROM movies GROUP BY industry;
```

industry	Count_of_Movies
Bollywood	18
Hollywood	21



Trilochan Tripathy

-- SELECT ALL MOVIES THAT HAVE 'AMERICA' WORD IN IT

```
SELECT * FROM movies WHERE title like '%America%';
```

movie_id	title	industry	release_year	imdb_rating	studio	language_id
137	Captain America: The First Avenger	Hollywood	2011	6.9	Marvel Studios	5
138	Captain America: The Winter Soldier	Hollywood	2014	7.8	Marvel Studios	5

-- SELECT ALL MOVIES THAT START WITH THOR

```
SELECT * FROM movies WHERE title LIKE "THOR%";
```

movie_id	title	industry	release_year	imdb_rating	studio	language_id
103	Thor: The Dark World	Hollywood	2013	6.8	Marvel Studios	5
104	Thor: Ragnarok	Hollywood	2017	7.9	Marvel Studios	5
105	Thor: Love and Thunder	Hollywood	2022	6.8	Marvel Studios	5

## -- MOVIES WITH RATINGS BETWEEN 6 AND 8

```
SELECT * FROM movies WHERE imdb_rating BETWEEN 6 AND 8;
```

movie_id	title	industry	release_year	imdb_rating	studio	language_id
102	Doctor Strange in the Multiverse of Madness	Hollywood	2022	7.0	Marvel Studios	5
103	Thor: The Dark World	Hollywood	2013	6.8	Marvel Studios	5
104	Thor: Ragnarok	Hollywood	2017	7.9	Marvel Studios	5
105	Thor: Love and Thunder	Hollywood	2022	6.8	Marvel Studios	5
107	Dilwale Dulhania Le Jayenge	Bollywood	1995	8.0	Yash Raj Films	1
109	Kabhi Khushi Kabhie Gham	Bollywood	2001	7.4	Dharma Productions	1
110	Bajirao Mastani	Bollywood	2015	7.2		1
115	The Pursuit of Happyness	Hollywood	2006	8.0	Columbia Pictures	5
117	Titanic	Hollywood	1997	7.9	Paramount Pictures	5
119	Avatar	Hollywood	2009	7.8	20th Century Fox	5



Trilochan Tripathy



-- SELECT ALL MOVIES WHOSE RELEASE YEAR CAN BE  
2018 OR 2019 OR 2022

```
SELECT * FROM movies WHERE release_year IN (2018,2019,2022);
```

movie_id	title	industry	release_year	imdb_rating	studio	language_id
101	K.G.F: Chapter 2	Bollywood	2022	8.4	Hombale Films	3
102	Doctor Strange in the Multiverse of Madness	Hollywood	2022	7.0	Marvel Studios	5
105	Thor: Love and Thunder	Hollywood	2022	6.8	Marvel Studios	5
124	Parasite	Hollywood	2019	8.5		5
125	Avengers: Endgame	Hollywood	2019	8.4	Marvel Studios	5
126	Avengers: Infinity War	Hollywood	2018	8.4	Marvel Studios	5
131	Sanju	Bollywood	2018	NULL	Vinod Chopra Films	1
133	RRR	Bollywood	2022	8.0	DVV Entertainment	2
135	The Kashmir Files	Bollywood	2022	8.3	Zee Studios	1
139	Race 3	Bollywood	2018	1.9	Salman Khan Films	1

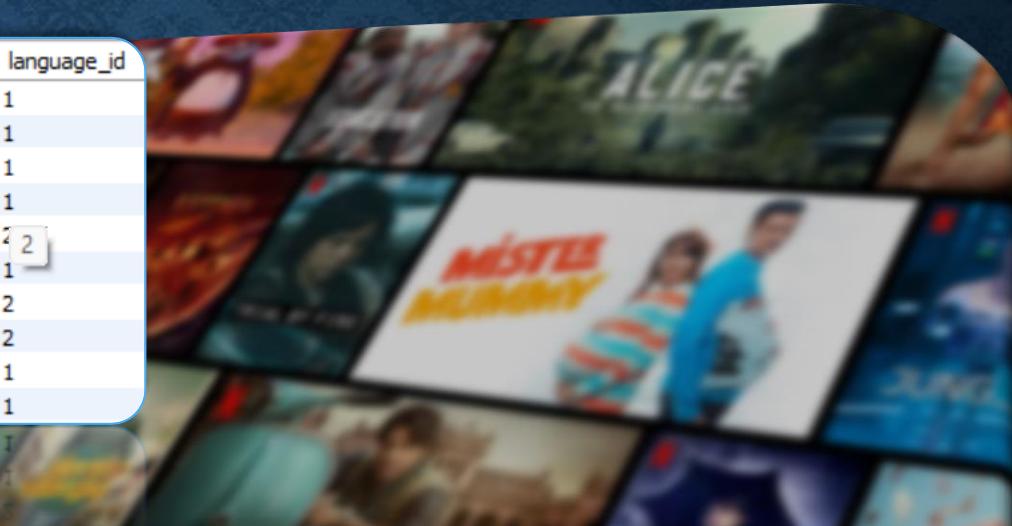
-- PRINT ALL BOLLYWOOD MOVIES ORDERED BY THEIR IMDB RATING



Trilochan Tripathy

```
SELECT * FROM movies WHERE industry = "Bollywood"  
ORDER BY imdb_rating ASC;
```

movie_id	title	industry	release_year	imdb_rating	studio	language_id
131	Sanju	Bollywood	2018	NULL	Vinod Chopra Films	1
139	Race 3	Bollywood	2018	1.9	Salman Khan Films	1
110	Bajirao Mastani	Bollywood	2015	7.2		1
109	Kabhi Khushi Kabhie Gham	Bollywood	2001	7.4	Dharma Productions	1
132	Pushpa: The Rise - Part 1	Bollywood	2021	7.6	Mythri Movie Makers	2
107	Dilwale Dulhania Le Jayenge	Bollywood	1995	8.0	Yash Raj Films	1
133	RRR	Bollywood	2022	8.0	DVV Entertainment	2
134	Baahubali: The Beginning	Bollywood	2015	8.0	Arka Media Works	2
106	Sholay	Bollywood	1975	8.1	United Producers	1
129	Munna Bhai M.B.B.S.	Bollywood	2003	8.1	Vinod Chopra Productions	1



-- SELECT MOVIES STARTING FROM SECOND HIGHEST RATING MOVIE TILL NEXT 5 MOVIES FOR BOLLYWOOD

```
SELECT * FROM movies WHERE industry = 'Bollywood'  
ORDER BY imdb_rating DESC  
LIMIT 5 OFFSET 1;
```

movie_id	title	industry	release_year	imdb_rating	studio	language_id
108	3 Idiots	Bollywood	2009	8.4	Vinod Chopra Films	1
140	Shershaah	Bollywood	2021	8.4	Dharma Productions	1
135	The Kashmir Files	Bollywood	2022	8.3	Zee Studios	1
128	Taare Zameen Par	Bollywood	2007	8.3		1
127	Pather Panchali	Bollywood	1955	8.3	Government of West Bengal	7

## -- SELECT HIGHEST & LOWEST IMDB RATING FOR ALL INDUSTRIES



## Trilochan Tripathy

```
SELECT industry,MAX(imdb_rating) AS Highest_IMDB,  
MIN(imdb_rating) AS Lowest_IMDB  
FROM movies GROUP BY industry
```

industry	Highest_IMDB	Lowest_IMDB
Bollywood	8.4	1.9
Hollywood	9.3	6.8

-- SELECT MOVIES STARTING FROM SECOND HIGHEST RATING MOVIE TILL NEXT 5 MOVIES FOR BOLLYWOOD

```
SELECT * FROM movies WHERE industry = 'Bollywood'  
ORDER BY imdb_rating DESC  
LIMIT 5 OFFSET 1;
```

movie_id	title	industry	release_year	imdb_rating	studio	language_id
108	3 Idiots	Bollywood	2009	8.4	Vinod Chopra Films	1
140	Shershaah	Bollywood	2021	8.4	Dharma Productions	1
135	The Kashmir Files	Bollywood	2022	8.3	Zee Studios	1
128	Taare Zameen Par	Bollywood	2007	8.3		1
127	Pather Panchali	Bollywood	1955	8.3	Government of West Bengal	7
151	Pather Panchali	Bollywood	2022	8.3	Government of West Bengal	1

-- WHAT IS THE COUNT OF MOVIES PER STUDIO AND RATING  
ALSO ORDER THEM BY TOTAL MOVIES IN DESCENDING  
FORMAT?



# Trilochan Tripathy

```
SELECT studio,COUNT(*) AS Total_movies,ROUND(AVG(imdb_rating),0) AS Avg_Rating  
FROM movies GROUP BY studio  
ORDER BY Total_movies DESC
```

studio	Total_movies	Avg_Rating
Marvel Studios	8	8
Vinod Chopra Films	3	8
	3	8
Dharma Productions	2	8
Warner Bros. Pictures	2	9
Paramount Pictures	2	9
Universal Pictures	2	9
Salman Khan Films	2	5
Hombale Films	1	8
United Producers	1	8

A collage of movie posters from the 2010s, including 'Alice in Wonderland', 'Mister Money', 'Juno', and 'The Social Network'.

-- PRINT REVENUE OF ALL MOVIES IN INR CURRENCY

```
SELECT movie_id,budget,revenue,unit,  
IF(currency='USD',revenue * 83,revenue) AS INR_Revenue  
FROM financials
```

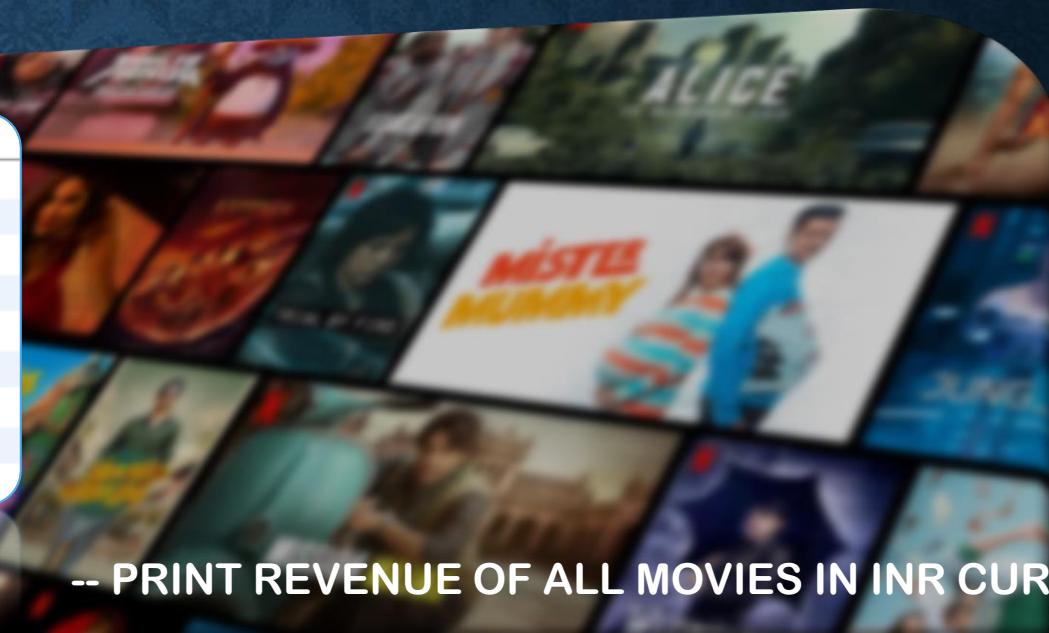
movie_id	budget	revenue	unit	INR_Revenue
101	1.00	12.50	Billions	12.50
102	200.00	954.80	Millions	79248.40
103	165.00	644.80	Millions	53518.40
104	180.00	854.00	Millions	70882.00
105	250.00	670.00	Millions	55610.00
107	400.00	2000.00	Millions	2000.00
108	550.00	4000.00	Millions	4000.00
109	390.00	1360.00	Millions	1360.00
110	1.40	3.50	Billions	3.50
111	1'40	3'20	Billions	3'20
103	220.00	1290.00	Millions	1290.00



-- PRINT ALL MOVIES ALONG WITH THEIR TITLE, BUDGET, REVENUE, CURRENCY AND UNIT

```
SELECT m.title,budget,revenue,currency,unit  
FROM movies m INNER JOIN financials f  
ON m.movie_id = f.movie_id
```

title	budget	revenue	currency	unit
K.G.F: Chapter 2	1.00	12.50	INR	Billions
Doctor Strange in the Multiverse of Madness	200.00	954.80	USD	Millions
Thor: The Dark World	165.00	644.80	USD	Millions
Thor: Ragnarok	180.00	854.00	USD	Millions
Thor: Love and Thunder	250.00	670.00	USD	Millions
Dilwale Dulhania Le Jayenge	400.00	2000.00	INR	Millions
3 Idiots	550.00	4000.00	INR	Millions
Kabhi Khushi Kabhie Gham	390.00	1360.00	INR	Millions
Bajirao Mastani	1.40	3.50	INR	Billions



-- PRINT REVENUE OF ALL MOVIES IN INR CURRENCY

```
SELECT movie_id,budget,revenue,unit,  
IF(currency='USD',revenue * 83,revenue) AS INR_Revenue  
FROM financials
```

movie_id	budget	revenue	unit	INR_Revenue
101	1.00	12.50	Billions	12.50
102	200.00	954.80	Millions	79248.40
103	165.00	644.80	Millions	53518.40
104	180.00	854.00	Millions	70882.00
105	250.00	670.00	Millions	55610.00
107	400.00	2000.00	Millions	2000.00
108	550.00	4000.00	Millions	4000.00
109	390.00	1360.00	Millions	1360.00
110	1.40	3.50	Billions	3.50

## -- FIND PROFIT FOR ALL MOVIES

```
SELECT m.title,budget,revenue,(revenue-budget) AS Profit  
FROM movies m INNER JOIN financials f  
ON m.movie_id = f.movie_id
```

title	budget	revenue	Profit
K.G.F: Chapter 2	1.00	12.50	11.50
Doctor Strange in the Multiverse of Madness	200.00	954.80	754.80
Thor: The Dark World	165.00	644.80	479.80
Thor: Ragnarok	180.00	854.00	674.00
Thor: Love and Thunder	250.00	670.00	420.00
Dilwale Dulhania Le Jayenge	400.00	2000.00	1600.00
3 Idiots	550.00	4000.00	3450.00
Kabhi Khushi Kabhie Gham	390.00	1360.00	970.00
Bajirao Mastani	1.40	3.50	2.10



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## -- PRINT REVENUE OF ALL MOVIES IN INR CURRENCY

```
SELECT movie_id,budget,revenue,unit,  
IF(currency='USD',revenue * 83,revenue) AS INR_Revenue  
FROM financials
```

movie_id	budget	revenue	unit	INR_Revenue
101	1.00	12.50	Billions	12.50
102	200.00	954.80	Millions	79248.40
103	165.00	644.80	Millions	53518.40
104	180.00	854.00	Millions	70882.00
105	250.00	670.00	Millions	55610.00
107	400.00	2000.00	Millions	2000.00
108	550.00	4000.00	Millions	4000.00
109	390.00	1360.00	Millions	1360.00
110	1.40	3.50	Billions	3.50

-- FIND PROFIT OF ALL BOLLYWOOD MOVIES AND SORT THEM BY PROFIT AMOUNT  
(MAKE SURE THE PROFIT BE IN MILLIONS FOR BETTER COMPARISONS)

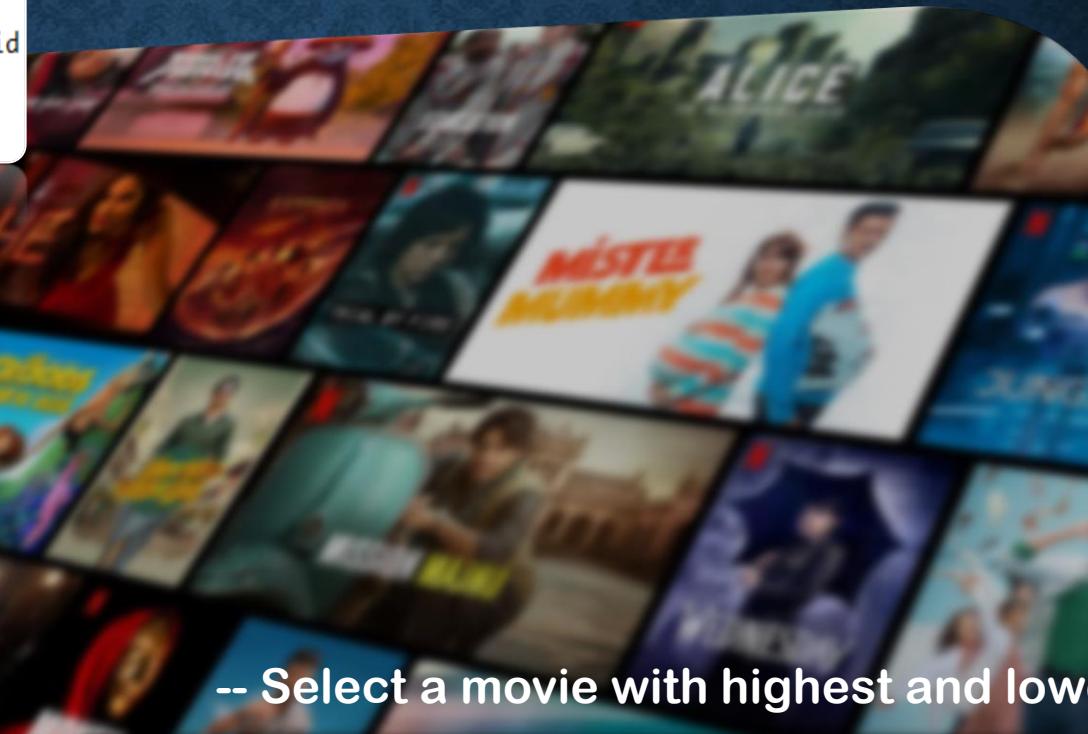
```
SELECT m.movie_id, title revenue, currency, unit, CASE
WHEN unit="Thousands" THEN ROUND((revenue-budget)/1000,2)
WHEN unit="Billions" THEN ROUND((revenue-budget)*1000,2)
ELSE revenue-budget END as profit_mln
FROM movies m JOIN financials f
ON m.movie_id=f.movie_id
WHERE m.industry="Bollywood" ORDER BY profit_mln DESC;
```

movie_id	revenue	currency	unit	profit_mln
101	K.G.F: Chapter 2	INR	Billions	11500.00
136	Bajrangi Bhaijaan	INR	Millions	10790.00
130	PK	INR	Millions	7690.00
133	RRR	INR	Billions	6500.00
131	Sanju	INR	Billions	4900.00
134	Baahubali: The Beginning	INR	Billions	4700.00
108	3 Idiots	INR	Millions	3450.00
135	The Kashmir Files	INR	Millions	3159.00
110	Bajirao Mastani	INR	Billions	2100.00
107	Dilwale Dulhania Le Jayenge	INR	Millions	1600.00
132	Pushpa: The Rise - Part 1	INR	Billions	1600.00
139	Race 3	INR	Billions	1300.00
128	Taare Zameen Par	INR	Millions	1230.00
109	Kabhi Khushi Kabhie Gham	INR	Millions	970.00
106	Kabhi Khushi Kabhie Gham	INR	Millions	960.00
158	Taare Zameen Par	INR	Millions	7530.00
129	Race 3	INR	Millions	7300.00
125	I	INR	Billions	7000.00

## -- SHOW COMMA SEPARATED ACTOR NAMES FOR EACH MOVIE

```
SELECT m.title,group_concat(a.name separator " , ") AS Actors  
FROM movies m INNER JOIN movie_actor ma ON m.movie_id=ma.movie_id  
INNER JOIN actors a ON ma.actor_id = a.actor_id  
GROUP BY m.movie_id;
```

title	Actors
K.G.F: Chapter 2	Yash , Sanjay Dutt
Doctor Strange in the Multiverse of Madness	Benedict Cumberbatch , Elizabeth Olsen
Thor: The Dark World	Chris Hemsworth , Natalie Portman , Tom Hiddle...
Thor: Ragnarok	Chris Hemsworth , Tom Hiddleston
Thor: Love and Thunder	Chris Hemsworth , Natalie Portman
Sholay	Amitabh Bachchan , Jaya Bachchan
Dilwale Dulhania Le Jayenge	Shah Rukh Khan , Kajol
3 Idiots	Aamir Khan , R. Madhavan , Sharman Joshi
Kabhi Khushi Kabhie Gham	Amitabh Bachchan , Shah Rukh Khan , Hrithik R...



-- Select a movie with highest and lowest imdb\_rating

```
SELECT * FROM movies  
WHERE imdb_rating IN (  
(SELECT MAX(imdb_rating) FROM movies),(SELECT MIN(imdb_rating) FROM movies));
```

movie_id	title	industry	release_year	imdb_rating	studio	language_id
111	The Shawshank Redemption	Hollywood	1994	9.3	Castle Rock Entertainment	5
139	Race 3	Bollywood	2018	1.9	Salman Khan Films	1
138	Race 3	Bollywood	2018	7.8	Salman Khan Films	1

-- SELECT ALL THE ACTORS WHOSE AGE IS GREATER THAN 70 AND LESS THAN 85

```
select actor_name, age FROM  
(Select name as actor_name,(year(curdate()) - birth_year) as age  
From actors) AS actors_age_table  
WHERE age > 70 AND age < 85;
```

```
WHERE age > 70 AND age < 85;
```

-- Select all the actors whose age is greater than 70 and less than 85 – Using CTE

```
with actors_age as  
(select name as actor_name,  
year(curdate()) - birth_year as age from actors)  
select actor_name, age from actors_age where age > 70 and age < 85;
```

actor_name	age
Amitabh Bachchan	81
Jaya Bachchan	75
Al Pacino	83
Liam Neeson	71
Ben Kingsley	80
Sam Neill	76
Mithun Chakraborty	73



Trilochan Tripathy