CHINTHALA MUNISEKHAR

MOVIE ANALYSIS #SQL

CONTENTS

1 Introduction

From Marvel Studios superheroes to Hombale Films blockbusters, from the glam of Bollywood to the scale of Hollywood, and even the charm of Telugu and Hindi cinema — this project dives into a cinematic universe of data. Using SQL, I've written the scripts to uncover box office trends, studio performances, language dominance, and industry insights, transforming raw movie records into a blockbuster story of analytics.

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RETRIVE FUNCTIONS

	Q1	print all movie titles and release year for all marvel studios movies ?

```
1 •   select title , release_year from movies
2     where studio = "Marvel Studios";
```

title	release_year
Doctor Strange in the Multiverse of Madness	2022
Thor: The Dark World	2013
Thor: Ragnarok	2017
Thor: Love and Thunder	2022
Avengers: Endgame	2019
Avengers: Infinity War	2018
Captain America: The First Avenger	2011
Captain America: The Winter Soldier	2014

RETRIVE FUNCTIONS

	Q2	print all movies that have Avenger in their name ?

```
1 •   select * from movies
2     where title like '%Avenger%';
```

movie_id	title	industry	release_year	imdb_rating	studio	language_id
125	Avengers: Endgame	Hollywood	2019	8.4	Marvel Studios	5
126	Avengers: Infinity War	Hollywood	2018	8.4	Marvel Studios	5
137	Captain America: The First Avenger	Hollywood	2011	6.9	Marvel Studios	5
NULL	NULL	NULL	NULL	NULL	NULL	NULL

RETRIVE FUNCTIONS

	Q3	print the year in which “The Godfather” movie was released ?

```
select release_year from movies
where title =  'The Godfather';
```

release_year
1972

RETRIVE FUNCTIONS

	Q4	print all distinct movie studios on Bollywood industry?

```
select distinct studio  from movies
where industry = "Bollywood" ;
```

studio
Hombale Films
United Producers
Yash Raj Films
Vinod Chopra Films
Dharma Productions
Government of West Bengal
Vinod Chopra Productions
Mythri Movie Makers
DVV Entertainment
Arka Media Works
Zee Studios
Salman Khan Films

RETRIVE FUNCTIONS

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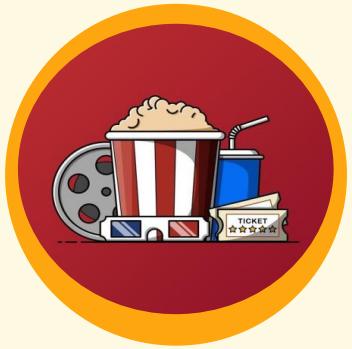
SUMMARY & ANALYTICS



	Q5 & Q6	count of movies released between 2015 and 2022 & Print the max and min movie release year?

```
select
      count(*)
from movies
where release_year
between 2015 and 2022
```

Result Grid

	count(*)
▶	16

```
select
   min(release_year) as min_year,
   max(release_year) as max_year
from movies
```

Result Grid | Filter Rows:

	min_year	max_year
▶	1946	2022

SUMMARY

	Q7	print a year and how many movies were released in that year starting with latest year ?

```sql
select release_year, count(*) as movies_count
from movies
group by release_year
order by release_year desc
```

Result Grid | Filter Rows:

release_year	movies_count
2022	5
2021	2
2019	2
2018	3
2017	1
2015	3
2014	3
2013	1
2011	1
2010	1
2009	2
2008	1
2007	1
2006	1
2003	1

SUMMARY

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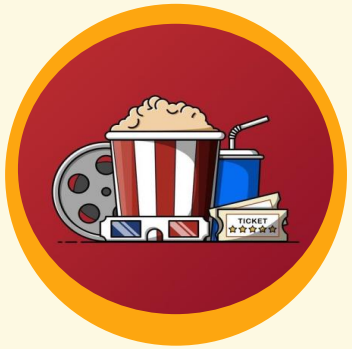
DERIVED DATA



DERIVED DATA

Q8 **Print profit % for all the movies ?**

```
select
      *,
 (revenue-budget) as profit,
 (revenue-budget)*100/budget as profit_pct
from financials
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

movie_id	budget	revenue	unit	currency	profit	profit_pct
101	1.00	12.50	Billions	INR	11.50	1150.000000
102	200.00	954.80	Millions	USD	754.80	377.400000
103	165.00	644.80	Millions	USD	479.80	290.787879
104	180.00	854.00	Millions	USD	674.00	374.444444
105	250.00	670.00	Millions	USD	420.00	168.000000
107	400.00	2000.00	Millions	INR	1600.00	400.000000
108	550.00	4000.00	Millions	INR	3450.00	627.272727
109	390.00	1360.00	Millions	INR	970.00	248.717949
110	1.40	3.50	Billions	INR	2.10	150.000000
111	25.00	73.30	Millions	USD	48.30	193.200000
113	165.00	701.80	Millions	USD	536.80	325.333333
114	205.00	365.30	Millions	USD	160.30	78.195122

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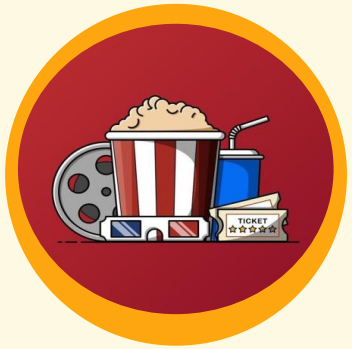
JOINS



	Q9	Show all the movies with their language names?

```
SELECT m.title, l.name
FROM movies m
JOIN languages l USING (language_id)
```

Result Grid | Filter Rows: | Expo

title	name
Pather Panchali	Bengali
Doctor Strange in the Multiverse of Madness	English
Thor: The Dark World	English
Thor: Ragnarok	English
Thor: Love and Thunder	English
The Shawshank Redemption	English
Inception	English
Interstellar	English
The Pursuit of Happyness	English
Gladiator	English
Titanic	English
It's a Wonderful Life	English

JOINS..

	Q10	Show all the movies with their language names?

```
select
      *,
 (revenue-budget) as profit,
 (revenue-budget)*100/budget as profit_pct
from financials
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

movie_id	budget	revenue	unit	currency	profit	profit_pct
101	1.00	12.50	Billions	INR	11.50	1150.000000
102	200.00	954.80	Millions	USD	754.80	377.400000
103	165.00	644.80	Millions	USD	479.80	290.787879
104	180.00	854.00	Millions	USD	674.00	374.444444
105	250.00	670.00	Millions	USD	420.00	168.000000
107	400.00	2000.00	Millions	INR	1600.00	400.000000
108	550.00	4000.00	Millions	INR	3450.00	627.272727
109	390.00	1360.00	Millions	INR	970.00	248.717949
110	1.40	3.50	Billions	INR	2.10	150.000000
111	25.00	73.30	Millions	USD	48.30	193.200000
113	165.00	701.80	Millions	USD	536.80	325.333333
114	205.00	365.30	Millions	USD	160.30	78.195122

	Q11	Show language and number of movies released in that language?

```
SELECT
        l.name,
        COUNT(m.movie_id) as no_movies
FROM languages l
LEFT JOIN movies m USING (language_id)
GROUP BY language_id
ORDER BY no_movies DESC;
```

Result Grid | Filter Rov

name	no_movies
English	21
Hindi	13
Telugu	3
Kannada	1
Bengali	1
Tamil	0
French	0
Gujarati	0

JOINS..

Q12

Generate a report of all Hindi movies sorted by their revenue amount in millions. Print movie name, revenue, currency, and unit?

```
SELECT
    title, revenue, currency, unit,
        CASE
                WHEN unit="Thousands" THEN ROUND(revenue/1000,2)
        WHEN unit="Billions" THEN ROUND(revenue*1000,2)
                ELSE revenue
        END as revenue_mln
FROM movies m
JOIN financials f
        ON m.movie_id=f.movie_id
JOIN languages l
        ON m.language_id=l.language_id
WHERE l.name="Hindi"
ORDER BY revenue_mln DESC
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content

title	revenue	currency	unit	revenue_mln
Bajrangi Bhaijaan	11690.00	INR	Millions	11690.00
PK	8540.00	INR	Millions	8540.00
Sanju	5.90	INR	Billions	5900.00
3 Idiots	4000.00	INR	Millions	4000.00
Bajirao Mastani	3.50	INR	Billions	3500.00
The Kashmir Files	3409.00	INR	Millions	3409.00
Race 3	3.10	INR	Billions	3100.00
Dilwale Dulhania Le Jayenge	2000.00	INR	Millions	2000.00
Kabhi Khushi Kabhie Gham	1360.00	INR	Millions	1360.00
Taare Zameen Par	1350.00	INR	Millions	1350.00
Shershaah	950.00	INR	Millions	950.00
Munna Bhai M.B.B.S.	410.00	INR	Millions	410.00

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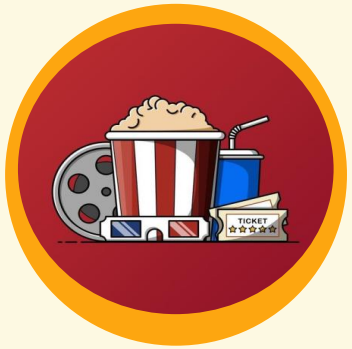
SUB QUERIES



SUBQUERIES

	Q13	Select all the movies with minimum and maximum release_year. Note that there can be more than one movie in min and a max year hence output rows can be more than 2 ?

```
select * from movies where release_year in (
        (select min(release_year) from movies),
        (select max(release_year) 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
105	Thor: Love and Thunder	Hollywood	2022	6.8	Marvel Studios	5
118	It's a Wonderful Life	Hollywood	1946	8.6	Liberty Films	5
133	RRR	Bollywood	2022	8.0	DVV Entertainment	2
135	The Kashmir Files	Bollywood	2022	8.3	Zee Studios	1
NULL	NULL	NULL	NULL	NULL	NULL	NULL

	Q14	Select all the rows from the movies table whose imdb_rating is higher than average rating ?

```
1  select * from movies
2      where imdb_rating >
3          (select avg(imdb_rating) 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
106	Sholay	Bollywood	1975	8.1	United Producers	1
107	Dilwale Dulhania Le Jayenge	Bollywood	1995	8.0	Yash Raj Films	1
108	3 Idiots	Bollywood	2009	8.4	Vinod Chopra Films	1
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
118	It's a Wonderful Life	Hollywood	1946	8.6	Liberty Films	5
120	The Godfather	Hollywood	1972	9.2	Paramount Pictures	5
121	The Dark Knight	Hollywood	2008	9.0	Syncopy	5
122	Schindler's List	Hollywood	1993	9.0	Universal Pictures	5
123	Jurassic Park	Hollywood	1993	8.2	Universal Pictures	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
127	Pather Panchali	Bollywood	1955	8.3	Government of West Bengal	7
128	Taare Zameen Par	Bollywood	2007	8.3		1
129	Munna Bhai M.B.B.S.	Bollywood	2003	8.1	Vinod Chopra Productions	1

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SUBQUERIES

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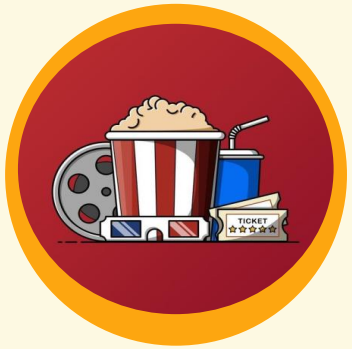
COMMAN TABLE EXPRESSIONS (CTE)



	Q15	Hollywood movies after 2000 with profit > 500 million ?

```
with cte as
(select title, release_year, (revenue-budget) as profit
        from movies m
        join financials f
        on m.movie_id=f.movie_id
        where release_year>2000 and industry="hollywood"
)
select * from cte where profit>500
```

Result Grid | Filter Rows: | Export: | Wrap Cell Cor

title	release_year	profit
Doctor Strange in the Multiverse of Madness	2022	754.80
Thor: Ragnarok	2017	674.00
Interstellar	2014	536.80
Avatar	2009	2610.00
The Dark Knight	2008	821.00
Avengers: Endgame	2019	2398.00
Avengers: Infinity War	2018	1648.00
Captain America: The Winter Soldier	2014	537.40

CTE

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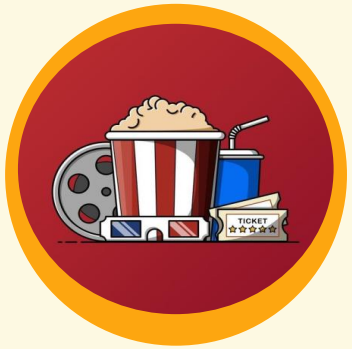
WINDOW FUNCTIONS



Q16 Rank movies by IMDb rating within each industry ?

```
SELECT
    m.title,
    m.industry,
    m.imdb_rating,
    Dense_rank() OVER (PARTITION BY m.industry ORDER BY
    m.imdb_rating DESC) AS rank_in_industry
FROM movies m;
```

Result Grid | Filter Rows: | Export:

title	industry	imdb_rating	rank_in_industry
K.G.F: Chapter 2	Bollywood	8.4	1
3 Idiots	Bollywood	8.4	1
Shershaah	Bollywood	8.4	1
Taare Zameen Par	Bollywood	8.3	2
Pather Panchali	Bollywood	8.3	2
The Kashmir Files	Bollywood	8.3	2
Munna Bhai M.B.B.S.	Bollywood	8.1	3
Sholay	Bollywood	8.1	3
PK	Bollywood	8.1	3
Bajrangi Bhaijaan	Bollywood	8.1	3
Dilwale Dulhania Le ...	Bollywood	8.0	4
RRR	Bollywood	8.0	4

WINDOW

Q17 Find top-grossing movie(s) per studio ?

```sql
SELECT
    m.studio,
    m.title,
    f.revenue,
    DENSE_RANK() OVER (PARTITION BY m.studio
    ORDER BY f.revenue DESC) AS revenue_rank
FROM movies m
JOIN financials f ON m.movie_id = f.movie_id;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

studio	title	revenue	revenue_rank
	Taare Zameen Par	1350.00	1
	Parasite	263.10	2
	Bajirao Mastani	3.50	3
20th Century Fox	Avatar	2847.00	1
Arka Media Works	Baahubali: The beginning	6.50	1
Castle Rock Entertainment	The Shawshank Redemption	73.30	1
Columbia Pictures	The Pursuit of Happyness	307.10	1
Dharma Productions	Kabhi Khushi Kabhie Gham	1360.00	1
Dharma Productions	Shershaah	950.00	2
DVV Entertainment	RRR	12.00	1
Government of West Bengal	Pather Panchali	100000...	1
Hombale Films	K.G.F: Chapter 2	12.50	1
Liberty Films	It's a Wonderful Life	3.30	1
Marvel Studios	Avengers: Endgame	2798.00	1
Marvel Studios	Avengers: Infinity War	2048.00	2

WINDOW

Q18 Calculate cumulative revenue per industry by release year ?

```
SELECT
    m.industry,
    m.release_year,
    m.title,
    f.revenue,
    SUM(f.revenue) OVER (PARTITION BY m.industry ORDER BY
    m.release_year ROWS BETWEEN UNBOUNDED PRECEDING AND CURRENT ROW)
    AS cumulative_revenue
FROM movies m
JOIN financials f ON m.movie_id = f.movie_id;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

industry	release_year	title	revenue	cumulative_revenue
Hollywood	1997	Titanic	2202.00	3937.80
Hollywood	2013	Thor: The Dark World	644.80	9573.80
Hollywood	2017	Thor: Ragnarok	854.00	11844.00
Hollywood	2022	Thor: Love and Thunder	670.00	18577.90
Hollywood	1994	The Shawshank Redemption	73.30	1735.80
Hollywood	2006	The Pursuit of Happyness	307.10	4705.40
Bollywood	2022	The Kashmir Files	3409.00	133731.60
Hollywood	1972	The Godfather	291.00	294.30
Hollywood	2008	The Dark Knight	1006.00	5711.40
Bollywood	2007	Taare Zameen Par	1350.00	105120.00
Bollywood	2021	Shershaah	950.00	130319.00
Hollywood	1993	Schindler's List	322.20	1662.50
Bollywood	2018	Sanju	5.90	129369.00
Bollywood	2022	RRR	12.00	133756.10
Bollywood	2018	Race 3	3.10	129363.10

WINDOW

Q19

Find average IMDb rating per language and compare each movie to that average?

```sql
SELECT
    m.title,
    l.name AS language,
    m.imdb_rating,
    ROUND(AVG(m.imdb_rating)
    OVER (PARTITION BY l.name), 2) AS avg_rating_in_language,
    m.imdb_rating - AVG(m.imdb_rating)
    OVER (PARTITION BY l.name) AS rating_difference
FROM movies m
JOIN languages l ON m.language_id = l.language_id;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

title	actor_name	birth_year
K.G.F: Chapter 2	Sanjay Dutt	1959
Doctor Strange in the Multiverse of Madness	Benedict Cumberbatch	1976
Thor: The Dark World	Natalie Portman	1981
Thor: The Dark World	Tom Hiddleston	1981
Thor: Ragnarok	Tom Hiddleston	1981
Thor: Love and Thunder	Natalie Portman	1981
Sholay	Amitabh Bachchan	1942
Dilwale Dulhania Le Jayenge	Shah Rukh Khan	1965
3 Idiots	Aamir Khan	1965
Kabhi Khushi Kabhie Gham	Amitabh Bachchan	1942
Bajirao Mastani	Ranveer Singh	1985
The Shawshank Redemption	Morgan Freeman	1937
Inception	Ken Watanabe	1959

WINDOW

Q20 Find the oldest actor in each movie using window functions ?

```sql
SELECT
    m.title,
    a.name AS actor_name,
    a.birth_year
FROM (
    SELECT
        ma.movie_id,
        ma.actor_id,
        a.birth_year,
        RANK() OVER (PARTITION BY ma.movie_id ORDER BY a.birth_year ASC) AS birth_rank
    FROM movie_actor ma
    JOIN actors a ON ma.actor_id = a.actor_id
) oldest
JOIN movies m ON m.movie_id = oldest.movie_id
JOIN actors a ON a.actor_id = oldest.actor_id
WHERE oldest.birth_rank = 1;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

title	actor_name	birth_year
K.G.F: Chapter 2	Sanjay Dutt	1959
Doctor Strange in the Multiverse of Madness	Benedict Cumberbatch	1976
Thor: The Dark World	Natalie Portman	1981
Thor: The Dark World	Tom Hiddleston	1981
Thor: Ragnarok	Tom Hiddleston	1981
Thor: Love and Thunder	Natalie Portman	1981
Sholay	Amitabh Bachchan	1942
Dilwale Dulhania Le Jayenge	Shah Rukh Khan	1965
3 Idiots	Aamir Khan	1965
Kabhi Khushi Kabhie Gham	Amitabh Bachchan	1942
Bajirao Mastani	Ranveer Singh	1985
The Shawshank Redemption	Morgan Freeman	1937
Inception	Ken Watanabe	1959

WINDOW

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CONCLUSION

This project proved that SQL is more than just a technical skill — it's a storytelling tool. By exploring data from Marvel Studios, Hombale Films, Bollywood, Hollywood, Telugu, and Hindi cinema, I transformed scattered movie and financial records into clear, actionable insights. From basic lookups to advanced joins and CTEs, each query was a step in turning raw facts into meaningful narratives. Just like a great film, the success lies in the perfect combination of creativity, structure, and execution — and SQL delivered the final cut.

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Thank you

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