

CASE STUDY FOR MOVIES



INTRODUCTION:

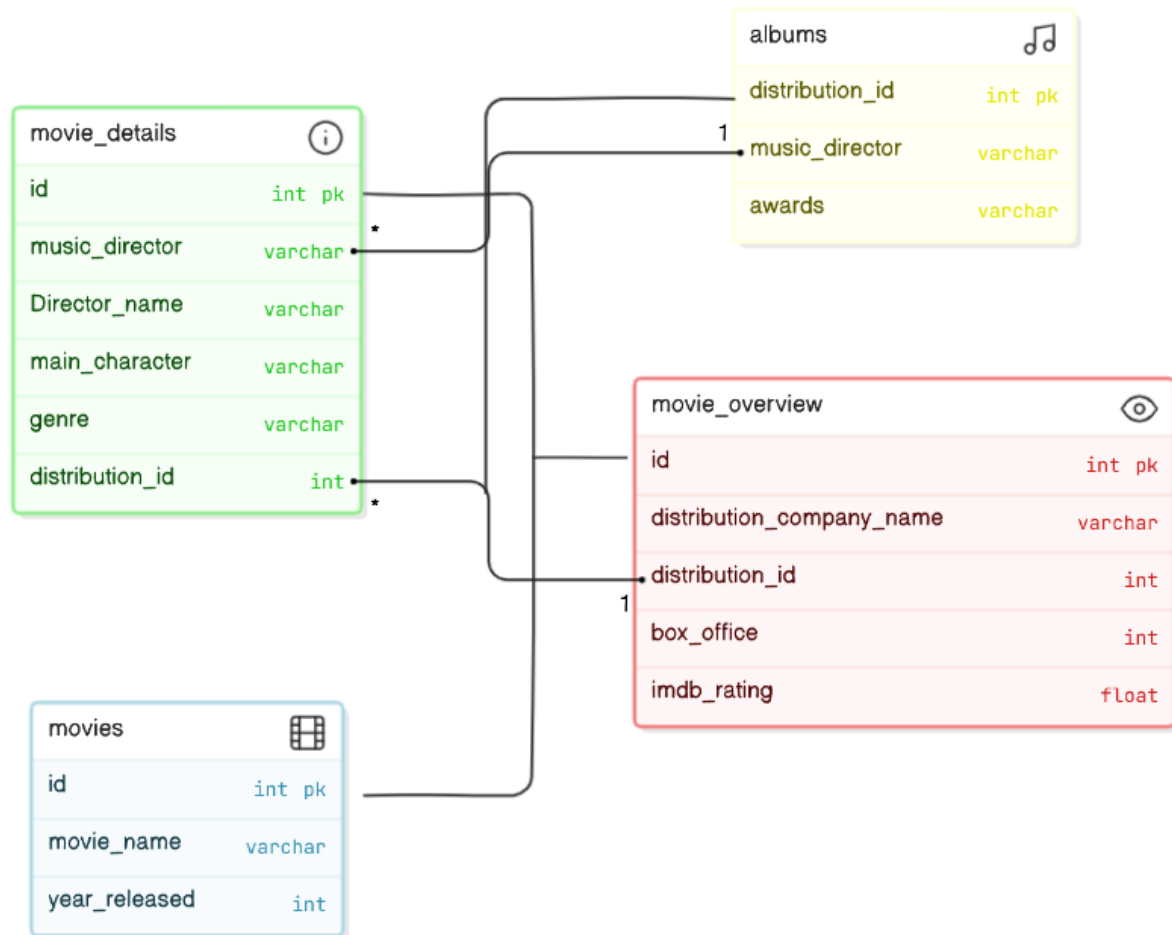
Created this Case study mainly for movie Lovers who loves Adventures, Sci-fi and many more Genres . it Majorly Focus on Movies overview as well as Movies Descriptions.

It helps users to Refer their favourite movies rating as well as the casts of the movies.

The evolution of cinema is marked by their genres.by examining these movies, we gain insight into how every genres shapes our understanding of the future and our place within it.

ENTITY RELATIONSHIP DIAGRAM

Films Database Schemas



TABLES

- ❖ movies
- ❖ movie_details
- ❖ movie_overview
- ❖ albums

Case Study Questions and Answers:

1.Alter music director into album director from movie details table?

SYNTAX:

```
alter table movie_details change music_director album_director varchar(50);
```

OUTPUT :

album_director
Thomas newman
Hans zimmer
Dust brothers
Hans zimmer
Hans zimmer
Alan silvestri
John williams

2.Change the movie name where id is 7?

SYNTAX:

```
update movies set movie_name = 'harry potter' where id =7;
```

OUTPUT :

	id	movie_name	year_rele
▶	1	The shawshank Redemption	1994
	2	The Dark knight	2008
	3	Fight club	1999
	4	Inception	2010
	5	Interstellar	2014
	6	Avengers endgame	2019
	7	harry potter	2008

3. Replace the available name into another name?

SYNTAX:

```
select replace('Avengers endgame','endgame','Infinity war') as part_one;
```

OUTPUT :

	part_one
▶	Avengers Infinity war

4.what is the value of 'zimmer'?

SYNTAX:

```
select instr('Hans zimmer','zimmer') as second_name;
```

OUTPUT :

	second_name
▶	6

5. Find all the company name which starts with 'w'?

SYNTAX:

```
select * from movie_overview  
where distribution_company_name like 'w%';
```

OUTPUT :

	id	distribution_company_name	distribution_id	box_office	imdb_rating
▶	1	Warner bros & columbia pictures	1	73 million	9.3
	5	Warner bros & Paramount pictures	5	77 million	8.7
	6	Walt Disney	6	2 billion	8.4
	7	Warner bros	7	70 million	8.6

6. Find the records where name have christopher nolan?

SYNTAX:

```
select Director_name, music_director, genre
from movie_details where director_name like '%Christoper nolan%';
```

OUTPUT :

	Director_name	music_director	genre
▶	Christoper nolan	Hans zimmer	Superhero
	Christoper nolan	Hans zimmer	Sci-fi
	Christoper nolan	Hans zimmer	Adventure

7. Find the box office collection between 60 to 90?

SYNTAX:

```
select box_office from movie_overview where box_office between 60 and 90 ;
```

OUTPUT :

	box_office
▶	73 million
	88 million
	65 million
	77 million
	70 million

8.Find the movie names which is released after 2010?

SYNTAX:

```
select movie_name,year_released from movies where year_released>2010;
```

OUTPUT :

	movie_name	year_released
▶	Interstellar	2014
	Avengers endgame	2019

9.Find movies which is released on even numbers?

SYNTAX:

```
select * from movies where year_released % 2 =0;
```

OUTPUT :

	id	movie_name	year_released
▶	1	The shawshank Redemption	1994
	2	The Dark knight	2008
	4	Inception	2010
	5	Interstellar	2014
	7	cars	2008

10.Find the total number of awards available on albums table?

SYNTAX:

```
select count(distinct awards)from albums;
```

OUTPUT :

	count(distinct awards)
▶	4

11.Find the maximum rating?

SYNTAX:

```
select max(imdb_rating) from movie_overview;
```

OUTPUT :

	max(imdb_rating)
▶	9.3

12.Find the imdb rating which is higher than the avg imdb rating?

SYNTAX:

```
select * from movie_overview where imdb_rating > (select avg(imdb_rating)from movie_overview);
```

OUTPUT :

	id	distribution_company_name	distribution_id	box_office	imdb_rating
▶	1	Warner bros & columbia pictures	1	73 million	9.3
	2	Filmflex	2	1 billion	9
	3	20th Century Studios	3	88 million	8.9

13.Find the second highest box office in the table movie overview?

SYNTAX:

```
select max(box_office) as sec_highest_collection from movie_overview where box_office not in(select max(box_office)from movie_overview);
```

OUTPUT :

	sec_highest_collection
▶	77 million

14.using case statement partition the year released as different names?

SYNTAX:

```
select id,  
case  
when year_released <1990 then 'older movies'  
when year_released >=2000 and year_released <2010 then 'early old movies'  
when year_released >=2010 and year_released <2015 then 'new movies'  
else 'old movies'  
end as 'movie_collection'  
from movies;
```

OUTPUT :

	id	movie_collection
▶	1	old movies
	2	early old movies
	3	old movies
	4	new movies
	5	new movies
	6	old movies
	7	early old movies

15.Find the distribution id,music director of hans zimmer?

SYNTAX:


```

select distribution_id,music_director from movie_details
where music_director='Hans zimmer'
union
select distribution_id,music_director from albums
where music_director='Hans zimmer'
order by distribution_id;

```

OUTPUT :

	distribution_id	music_director
▶	2	Hans zimmer
	4	Hans zimmer
	5	Hans zimmer

16.Join the tables of movies and movie details get the movie name,main character and genre?

SYNTAX:

```

select m.movie_name,
md.main_character,
md.genre
from movies as m
join movie_details as md
on m.id = md.id;

```

OUTPUT :

	movie_name	main_character	genre
▶	The shawshank Redemption	Andy dufresne	Thriller
	The Dark knight	Batman	Superhero
	Fight club	The Narrator	Action
	Inception	Cobb	Sci-fi
	Interstellar	Joseph cooper	Adventure
	Avengers endgame	Ironman	Superhero
	Harry potter	Harry	Magic

17.Join the three tables using the multiple joins?

SYNTAX:

```
select m.movie_name,  
m.year_released,  
md.director_name,  
md.music_director,  
mo.distribution_company_name,  
mo.imdb_rating  
from movies as m  
join movie_details as md  
on m.id = md.id  
join movie_overview as mo  
on md.distribution_id=mo.distribution_id;
```

OUTPUT :

	movie_name	year_released	director_name	music_director	distribution_company_name	imdb_rating
►	The shawshank Redemption	1994	Frank darabont	Thomas newman	Warner bros & columbia pictures	9.3
	The Dark knight	2008	Christoper nolan	Hans zimmer	Filmflex	9
	Fight club	1999	David fincher	Dust brothers	20th Century Studios	8.9
	Inception	2010	Christoper nolan	Hans zimmer	Sandrew Metronome	8.6
	Interstellar	2014	Christoper nolan	Hans zimmer	Warner bros & Paramount pictures	8.7
	Avengers endgame	2019	Russo brothers	Alan silvestri	Walt Disney	8.4
	Harry potter	2008	J.K.Rowling	John williams	Warner bros	8.6

18.Delete the record named as superhero and retrieve it again?

SYNTAX:

```
set autocommit =off;  
delete from movie_details where genre='superhero';  
select genre from movie_details;
```

OUTPUT :

	genre
▶	Thriller
	Action
	Sci-fi
	Adventure
	Magic

After using Rollback command

SYNTAX:

rollback;

OUTPUT :

	genre
▶	Thriller
	Superhero
	Action
	Sci-fi
	Adventure
	Superhero
	Magic

19. Use the window function lead, lag and order in ascending?

SYNTAX:

```

select
distribution_id,
box_office,
imdb_rating,
lead (box_office) over (order by box_office) as leads,
lag(box_office) over (order by box_office) as lags
from movie_overview order by distribution_id asc;

```

OUTPUT :

	distribution_id	box_office	imdb_rating	leads	lags
▶	1	73 million	9.3	77 million	70 million
	2	1 billion	9	2 billion	NULL
	3	88 million	8.9	NULL	77 million
	4	65 million	8.6	70 million	2 billion
	5	77 million	8.7	88 million	73 million
	6	2 billion	8.4	65 million	1 billion
	7	70 million	8.6	73 million	65 million

