PROJECT



MOVIES

Analyze Ad-Hoc Business Questions

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1. Project Goals

In this project, I worked on a database in MySQL environment to analyze the data and answer some business questions. For doing this, I work with several tables and run SQL queries and functions to find the best answer for each question.

2. Language, libraries, tools:

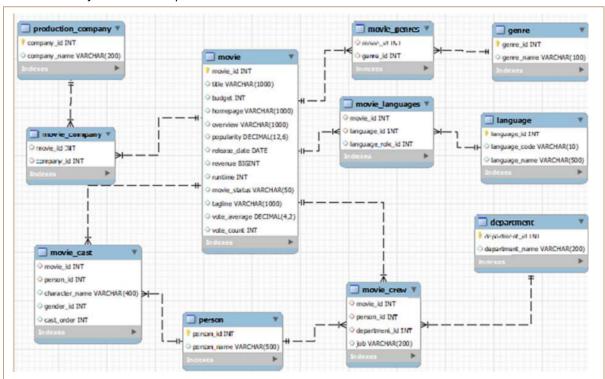
Language: SQL

Libraries: - **IDE**: MySQL

Application: Microsoft Excel

3. Data

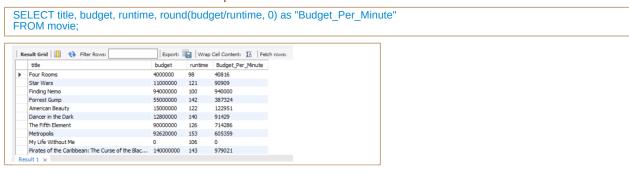
There are 17 tables in this database that in the below you can see their attribute type and ER model (entity relationship).



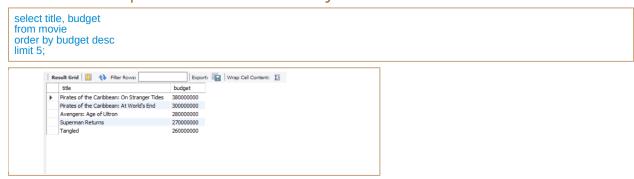
Ad-Hoc Business Questions

In this section we want to analyze data in MySQL environment using SQL queries. So, by doing this we can answer some ad-hoc questions that might be asked in daily-basis business.

1. How much did movies cost per minute?



2. What is the top-5 movies in terms of budget?

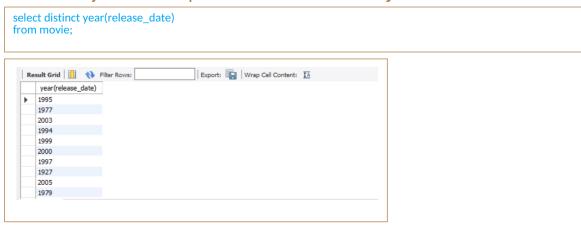


3. In terms of release date, how old is every single movie? Show the top-10 Youngest movies.



		Name of the Prince of the Prin	
	release_date	title	age
١	2017-02-03	Growing Up Smith	6
	2016-02-04	Pride and Prejudice and Zombies	7
	2016-07-14	Ghostbusters	7
	2016-02-19	Triple 9	7
	2016-06-22	Independence Day: Resurgence	7
	2016-08-26	Hands of Stone	7
	2016-05-25	Warcraft	7
	2016-07-07	Star Trek Beyond	7
	2016-05-11	The Angry Birds Movie	7
	2016-01-23	Kung Fu Panda 3	7

4. In which years did the producer make a movie? regardless of the number of movies.

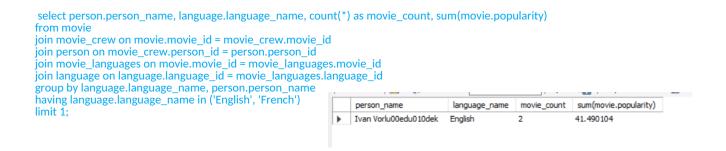


5. Which movies cost less than 50,000 and what were their genres? Just top-10





6. Which director did make the most popular movie in English and French language?



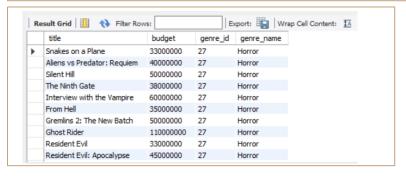
7. Make a list of actors (actress) who played after the year 2010.

select person.person_name, movie.title, movie_crew.job
from movie
join movie_crew on movie.movie_id = movie_crew.movie_id
join person on movie_crew.person_id = person.person_id
where movie_crew.job = 'Characters' and movie.release_date > '2010-01-01'
group by person.person_name, movie.title, movie_crew.job;

	person_name	title	job
>	Stan Lee	The Amazing Spider-Man	Characters
	Steve Ditko	The Amazing Spider-Man	Characters
	Marlon Wayans	Scary Movie 5	Characters
	Shawn Wayans	Scary Movie 5	Characters
	Buddy Johnson	Scary Movie 5	Characters
	Phil Beauman	Scary Movie 5	Characters
	Jason Friedberg	Scary Movie 5	Characters
	Aaron Seltzer	Scary Movie 5	Characters
	Stan Lee	Iron Man 2	Characters
	Jack Kirby	Iron Man 2	Characters

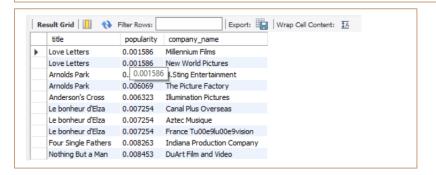
8. How many horror movies did their budget exceed the average budget of a

select movie.title, movie.budget, movie_genres.genre_id, genre.genre_name
from movie
join movie_genres on movie.movie_id = movie_genres.movie_id
join genre on genre.genre_id = movie_genres.genre_id
where genre.genre_name = 'Horror' and movie.budget > (select avg(movie.budget) from movie)



9. What is the bottom-10 popular movies, and which company made them?

select movie.title, sum(movie.popularity) as popularity, production_company.company_name from movie join movie_company on movie.movie_id = movie_company.movie_id join production_company on production_company.company_id = movie_company.company_id group by movie.title, production_company.company_name order by sum(movie.popularity) asc limit 10;



10. Which movie companies invested the budget between 150K to 200K and for which movie?

select movie.title, movie.budget, production_company.company_name
from movie
join movie_company on movie.movie_id = movie_company.movie_id
join production_company on movie_company.company_id = production_company.company_id
where movie.budget between 15000 and 200000
order by budget desc
limit 1;



