PROJECT 02



MOVIES

1. 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:

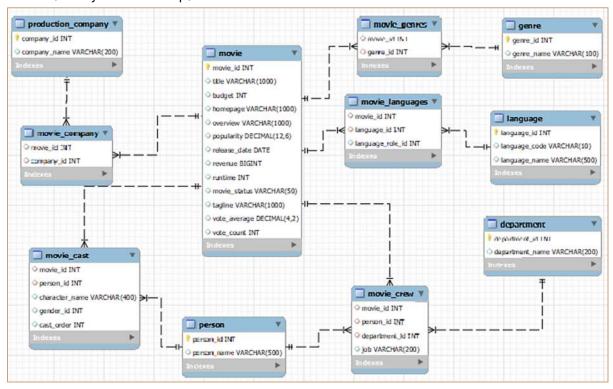
Language: SQL

Libraries: - **IDE**: MySQL

Application: Microsoft Excel

3. Data

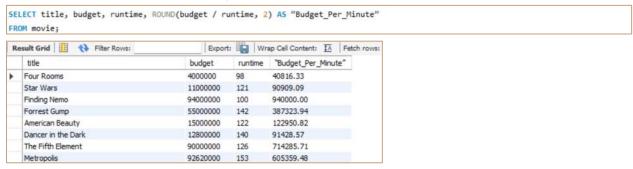
There are 17 tables in this database that in the below you can see their attribute type and ER model (entity relationship).



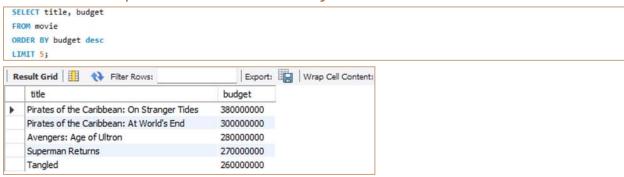
Ad-Hoc Business Questions

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.

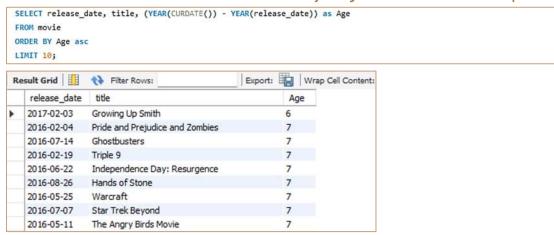
1. How much did movies cost per minute?



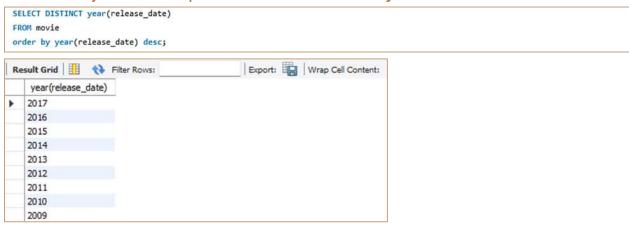
2. What is the top-5 movies in terms of budget?



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



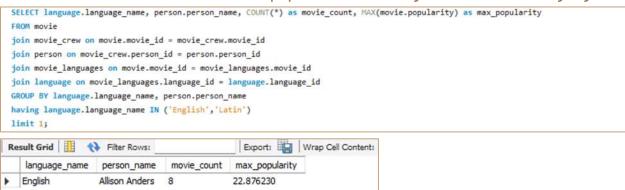
4. In which years did the producer make a movie? regardless of the number of movies.



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?

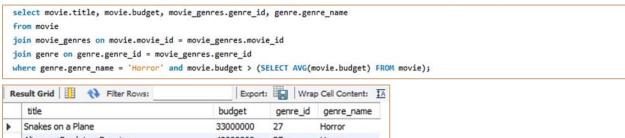


7. Make a list of actors (actress) who played after the year 2010.

```
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 release_date > "2010-01-01"
GROUP BY person.person_id, movie.title, movie_crew.job;
```

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



	title	budget	genre_id	genre_name
١	Snakes on a Plane	33000000	27	Horror
	Aliens vs Predator: Requiem	40000000	27	Horror
	Silent Hill	50000000	27	Horror
	The Ninth Gate	38000000	27	Horror
	Interview with the Vampire	60000000	27	Horror
	From Hell	35000000	27	Horror
	Gremlins 2: The New Batch	50000000	27	Horror
	Ghost Rider	110000000	27	Horror
	Resident Evil	33000000	27	Horror

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

SELECT movie.title, SUM(movie.popularity) as sum_popularity, production_company.company_name
FROM movie

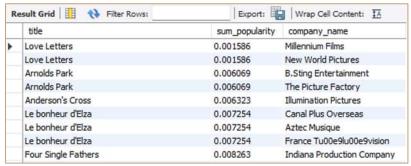
JOIN movie_company ON movie.movie_id = movie_company.movie_id

JOIN production_company ON movie_company.company_id = production_company_id

GROUP BY movie.title, production_company.company_name

ORDER BY sum_popularity asc

LIMIT 10;



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

