

SQL WORKSHEET 5

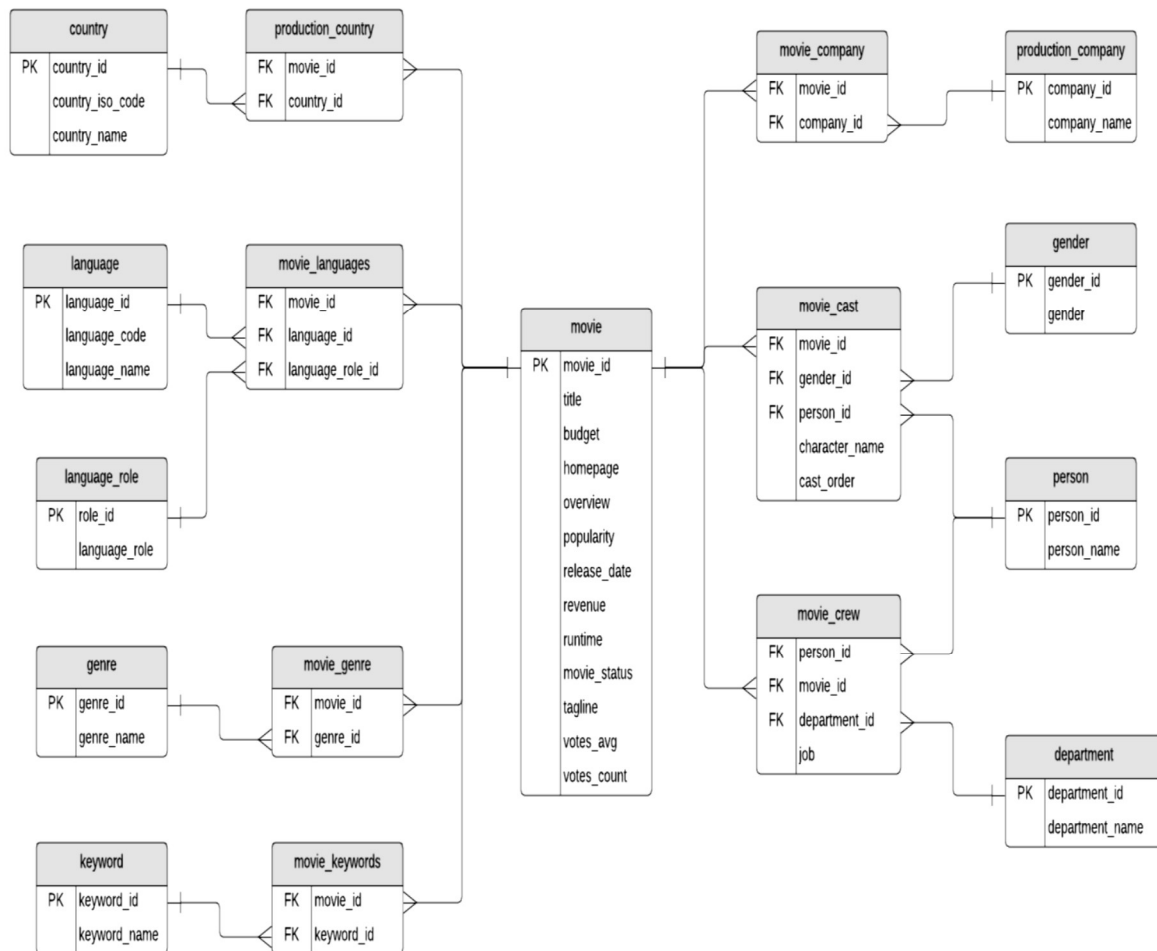


Table Explanations:

- The **movie** table contains information about each movie. There are text descriptions such as title and overview. Some fields are more obvious than others: revenue (the amount of money the movie made), budget (the amount spent on creating the movie). Other fields are calculated based on data used to create the data source: popularity, votes_avg, and votes_count. The status indicates if the movie is Released, Rumoured, or in Post-Production.
- The **country** list contains a list of different countries, and the **movie_country** table contains a record of which countries a movie was filmed in (because some movies are filmed in multiple countries). This is a standard many-to-many table, and you'll find these in a lot of databases.
- The same concept applies to the **production_company** table. There is a list of production companies and a many-to-many relationship with movies which is captured in the **movie_company** table.
- The **languages** table has a list of languages, and the **movie_languages** captures a list of languages in a movie. The difference with this structure is the addition of a **language_role** table.
- This **language_role** table contains two records: Original and Spoken. A movie can have an original language (e.g. English), but many Spoken languages. This is captured in the **movie_languages** table along with a role.

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- Genres define which category a movie fits into, such as Comedy or Horror. A movie can have multiple genres, which is why the **movie_genres** table exists.
- The same concept applies to keywords, but there are a lot more keywords than genres. I'm not sure what qualifies as a keyword, but you can explore the data and take a look. Some examples as "paris", "gunslinger", or "saving the world".
- The cast and crew section of the database is a little more complicated. Actors, actresses, and crew members are all people, playing different roles in a movie. Rather than have separate lists of names for crew and cast, this database contains a table called person, which has each person's name.

1. Write SQL query to show all the data in the Movie table.

Select * from movie;

2. Write SQL query to show the title of the longest runtime movie.

Select title from movie order by runtime desc limit 1;

3. Write SQL query to show the highest revenue generating movie title.

Select title from movie order by revenue desc limit 1;

4. Write SQL query to show the movie title with maximum value of revenue/budget.

Select title from movie order by budget desc limit 1;

5. Write a SQL query to show the movie title and its cast details like name of the person, gender, character name, cast order.

Select title, gender, character_name, cast_order, person_name from movie a inner join movie_cast b on a.movie_id=b.movie_id inner join gender c on c.gender_id=b.gender_id inner join person d on d.person_id= b.person_id;

6. Write a SQL query to show the country name where maximum number of movies has been produced, along with the number of movies produced.

Select country_name, count(country_name) as count from country as a inner join production_country as b on b.country_id=a.country_id group by country_name order by count desc limit 1;

7. Write a SQL query to show all the genre_id in one column and genre_name in second column.

Select * from genre;

8. Write a SQL query to show name of all the languages in one column and number of movies in that particular column in another column.

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Select language_name, movie_id, count(language_name) from movie_languages as a join language as b on a.language_id=b.language_id group by language_name order by count(language_name) desc;

9. Write a SQL query to show movie name in first column, no. of crew members in second column and number of cast members in third column.

Select m.title as movie_name, count(cr.person_id) as no_of_crews, count(ca.person_id) as no_of_cast from movie as m inner join movie_crew as cr on cr.movie_id=m.movie_id inner join movie_cast ca on ca.person_id=cr_person_id;

10. Write a SQL query to list top 10 movies title according to popularity column in decreasing order.

Select title from movie order by popularity desc limit 10;

11. Write a SQL query to show the name of the 3rd most revenue generating movie and its revenue.

Select title from movie order by revenue desc offset 3 limit 1;

12. Write a SQL query to show the names of all the movies which have “rumoured” movie status.

Select title from movie where movie_status like ‘rumored’;

13. Write a SQL query to show the name of the “United States of America” produced movie which generated maximum revenue.

Select title, revenue from movie a inner join production_country b on b.movie_id = a.movie_id inner join country c on c.country_id = b. country_id where country_name= ‘United State of America’;

14. Write a SQL query to print the movie_id in one column and name of the production company in the second column for all the movies.

Select m.movie_id, pc.company_name from movie m inner join movie_company mc on mc.movie_id = m.movie_id inner join production_company pc on pc.company_id =mc.company_id;

15. Write a SQL query to show the title of top 20 movies arranged in decreasing order of their budget.

Select title from movie order by budget desc limit 20;