

2 Task - Group B (Bravo)

Consider the schema shown in Figure 7.2:

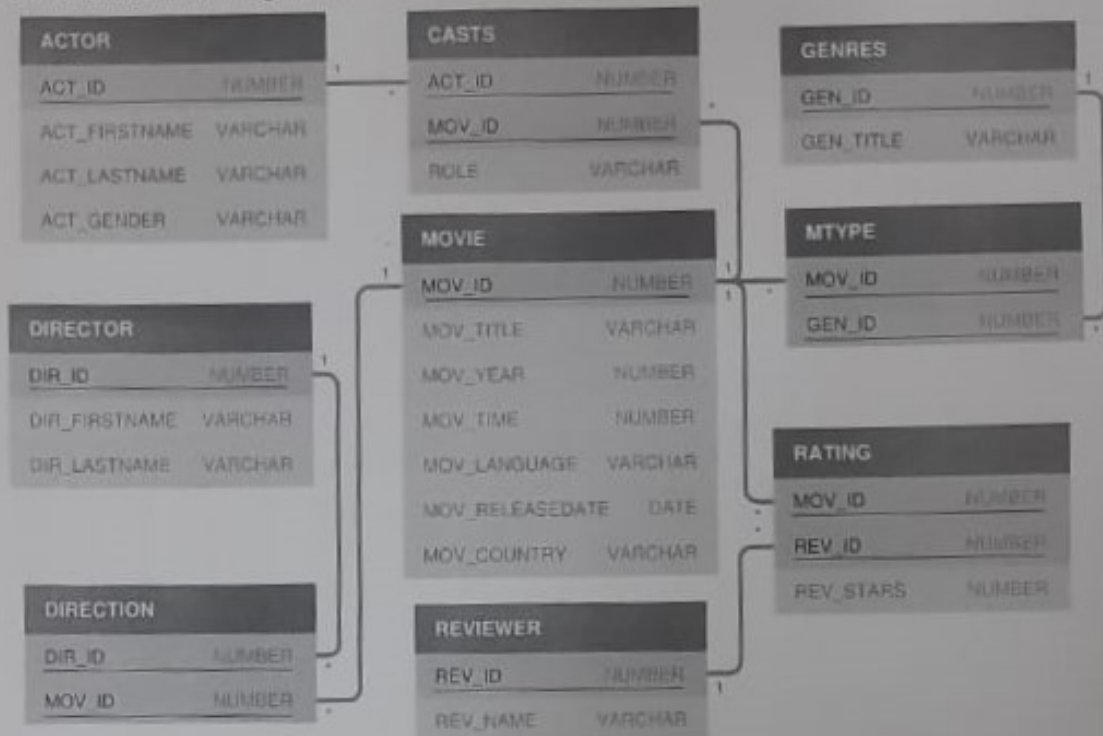


Figure 7.2. Schema diagram for a movie database

Write the command `@"<file_path>\<file_name>.sql"` in your SQL command line to execute the provided .sql file. Now, write SQL or PL/SQL statements to perform each of the following tasks:

1. Write an anonymous PL/SQL block to print the name of your set.
2. Find the country-wise most frequent genre.
3. Find the first and the last names of directors whose movies got the 2nd, 3rd, and 5th highest average rating. If there is the same director for multiple movies, their name should appear once.
4. Write a function that, given a specific year and a number N , prints the first and the last names of the top N highest-rated actors/actresses based on the average rating of the movies they appeared in for that year. These actors/actresses should have an average rating higher than the mean of the average ratings of other actors/actresses in movies released during the same year.
5. Create a trigger that, upon an actor being cast in a new movie, verifies if the actor is involved in genres he/she hasn't previously participated in. If such new participation occurs, display the overall cumulative participation ratio of the actor in that genre, considering all genres. However, if the actor participates in a genre they've previously acted in, show his/her participation ratio in that genre in relation to all genres, excluding the ones associated with the current movie.
6. Create a trigger that activates before a reviewer (R) submits a rating for a movie (M) or updates an existing rating. This trigger will suggest an approximate rating based on the ratings of similar reviewers. Similar reviewers are identified based on four criteria:
 - SM: The reviewer reviews the highest number of the same movies as the person of concern (R). (weight 23%).
 - SG: SG: The reviewer reviews the highest number of the same genre as the person of concern (R). (weight 18%).
 - ASM: The reviewer's average rating of the same movies as the person of concern (R) is the closest. (weight 32%).
 - ASG: The reviewer's average rating of the same genre as the person of concern (R) is the closest. (weight 27%).

For the suggestion, the trigger will use the following equation:

$$\text{Suggested Rating} = (\text{Rating by SM of } M * 0.23) + (\text{Rating by SG of } M * 0.18) + (\text{Rating by ASM of } M * 0.32) + (\text{Rating by ASG of } M * 0.27)$$

If multiple reviewers satisfy any of the SM, SG, ASM, or ASG criteria, the trigger will consider the average of the ratings provided by those reviewers for the respective criteria. And if for any criteria there is no similar review who rated the movie consider 5* weight.