

DBMS Course

Exercise Set: Writing SQL Queries -I

The following queries assume the movies database given earlier.

- 1) Find all (starname, title, gender) triples of all stars with name starname who have starred in movie title and their gender.
- 2) Find all (starname, genre) pairs where the star with the given starname has Order by starname (asc), genre (asc).
 - 1) Find all (starname, genre) pairs where the star with the given starname has starred in at least one movie of genre type.
 - 2) Find all (starname, genre) pairs where the star with the given starname has starred in at least two movies of genre type.
 - 3) Find all (starname, genre) pairs where the star with the given starname has starred in less than two movies of genre type. (The complement of part (2).)
 - 4) Find all (starname, genre) pairs where the star with the given starname has starred in exactly one movie of genre type.
 - 5) Find all (starname, genre) pairs where the star with given starname has starred in every movie released of that genre.
 - 6) Find all (starname, genre) pairs where the star with given starname has not starred in any movie of that genre.
- 3) Find all (starname, num_genres) pairs where the star with the given starname has starred in num_genres number of distinct genre movies.
- 4) Find all (genre, avg_length, num_movies) pairs which gives the average length of movies of each genre and the number of movies released for that genre.
- 5) Find all (title, num_actors) pairs which gives the number of stars who have starred in the movie named title.
- 6) Find all (title, num_actors) pairs of movie titles that have the maximum number num_actors starring in them.
- 7) Same as (6) except find all (genre, title, num_actors) triples that for each genre, finds the movie title that has the max number of actors starring in it.
- 8) Odd/even (etc).
 - 1) Type and try these out:
 - 1) select 5/3;
 - 2) select length % 2 from movies;
 - 3) select floor(length/60) as hrs, length – floor(length/60) *60 as mins from movies;
 - 2) Find all movie titles with odd length duration.
 - 3) Find all movie titles with even length duration.
 - 4) Find all movie titles that have an odd number of stars in it.
- 9) Find all (title, num_awards) pairs where movie title gets a total of num_awards awarded to it and/or its stars.
- 10) Find all (genre, num_awards) pairs where all movies of a genre gets a total of num_awards awarded to it or its/stars.