SQL Movie-Rating Query Exercises

Q1

(1/1 point)

Find the titles of all movies directed by Steven Spielberg.

select title from movie

where director = 'Steven Spielberg';

Q2

(1/1 point)

Find all years that have a movie that received a rating of 4 or 5, and sort them in increasing order.

select distinct m.year from rating r, movie m

where r.stars in ('4','5')

and r.mID = m.mId

order by 1;

Q3

(1/1 point)

Find the titles of all movies that have no ratings.

select m.title from movie m

where mId not in ( select r.mId from rating r);

Q4

(1/1 point)

Some reviewers didn't provide a date with their rating. Find the names of all reviewers who have ratings with a NULL value for the date.

select re.name

from reviewer re, rating r

where re.rID = r.rID

and ratingDate is null;

Q5

(1/1 point)

Write a query to return the ratings data in a more readable format: reviewer name, movie title, stars, and ratingDate. Also, sort the data, first by reviewer name, then by movie title, and lastly by number of stars.

select name, title, stars, ratingDate

from movie m , rating r , reviewer re

where re.rID = r.rID

and r.mID = m.mID

order by 1,2,3;

Q6

(1/1 point)

For all cases where the same reviewer rated the same movie twice and gave it a higher rating the second time, return the reviewer's name and the title of the movie.

select distinct re1.name,m1.title

from Reviewer re1, rating r1 , movie m1,

Reviewer re2, rating r2 , movie m2

where re1.rID = r1.rID

and r1.mID = m1.mID

and re2.rID = r2.rID

and r2.mID = m2.mID

and re1.rID = re2.rID

and r1.mID = r2.mID

and r1.rID = r2.rID

and r1.stars < r2.stars

and r1.ratingDate < r2.ratingDate ;

Q7

(1/1 point)

For each movie that has at least one rating, find the highest number of stars that movie received. Return the movie title and number of stars. Sort by movie title.

select title,max(stars)

from movie m,rating r

where m.mID = r.mID

group by r.mID

order by 1;

Q8

(1/1 point)

For each movie, return the title and the 'rating spread', that is, the difference between highest and lowest ratings given to that movie. Sort by rating spread from highest to lowest, then by movie title.

select title,max(stars) - min(stars)

from movie m,rating r

where m.mID = r.mID

group by r.mID

order by 2 desc,1;

Q9

(1/1 point)

Find the difference between the average rating of movies released before 1980 and the average rating of movies released after 1980. (Make sure to calculate the average rating for each movie, then the average of those averages for movies before 1980 and movies after. Don't just calculate the overall average rating before and after 1980.)

select max(a1)-min(a1) from

(select avg(av1) a1 from

(select avg(stars) av1 from rating r join movie m on r.mid=m.mid where m.year < 1980

group by r.mid)

union

select avg(av2) a1 from

(select avg(stars) av2 from rating r join movie m on r.mid=m.mid where m.year > 1980

group by r.mid))