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Feedback — SQL Movie-Rating Query Exercises (extras)

Help Center

You submitted this quiz on **Mon 27 Oct 2014 11:47 AM PDT**. You got a score of **12.00** out of **12.00**.

You've started a new movie-rating website, and you've been collecting data on reviewers' ratings of various movies. There's not much data yet, but you can still try out some interesting queries. Here's the schema:

Movie (mID, title, year, director)

English: There is a movie with ID number *mID*, a *title*, a release *year*, and a *director*.

Reviewer (rID, name)

English: The reviewer with ID number *rID* has a certain *name*.

Rating (rID, mID, stars, ratingDate)

English: The reviewer *rID* gave the movie *mID* a number of *stars* rating (1-5) on a certain *ratingDate*.

Your queries will run over a small data set conforming to the schema. View the database. (You can also download the schema and data.)

Instructions: You are to write each of the following queries using SQL. The "Run Query" command will help you develop and debug your queries by running them using SQLite over the sample database.

Important Notes:

- Your queries are executed using SQLite, so you must conform to the SQL constructs supported by SQLite.
- Unless a specific result ordering is asked for, you can return the result rows in any order.
- You are to translate the English into a SQL query that computes the desired result over all possible databases. All we actually check is that your query gets the right answer on the small sample database. Thus, even if your solution is marked as correct, it is possible that your query does not correctly reflect the problem at hand. (For example, if we ask for a complex condition that requires accessing all of the tables, but over our small data set in the end the condition is satisfied only by Star Wars, then the query "select title from Movie where title = 'Star Wars'" will be marked correct even though it doesn't reflect the actual question.)
 Circumventing the system in this fashion will get you a high score on the exercises, but it

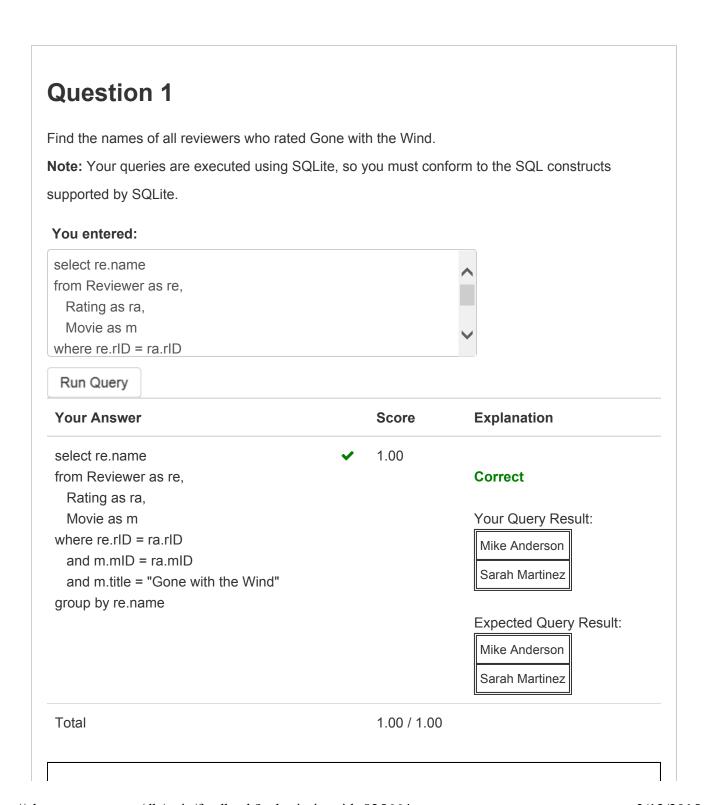
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won't help you learn SQL. On the other hand, an incorrect attempt at a general solution is unlikely to produce the right answer, so you shouldn't be led astray by our checking system.

You may perform these exercises as many times as you like, so we strongly encourage you to keep working with them until you complete the exercises with a full score.

NOTE: REMEMBER TO CLICK "Submit" WHEN YOU ARE DONE!

Please be patient as it does take time to check all of the exercises.



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Question Explanation

Note

Even if your solution is marked as correct, it is possible that your query does not correctly reflect the problem at hand. All we check is that your query gets the right answer on the small sample database. For example, if we asked for a complex condition that requires accessing all of the tables, but over our small data set in the end the condition is satisfied only by Star Wars, then the query "select title from Movie where title = 'Star Wars'" will be marked correct even though it doesn't reflect the actual question. Circumventing the system in this fashion will get you a high score on the exercises, but it won't help you learn SQL. On the other hand, an incorrect attempt at a general solution is unlikely to produce the right answer, so you shouldn't be led astray by our checking system.

Question 2

For any rating where the reviewer is the same as the director of the movie, return the reviewer name, movie title, and number of stars.

Note: Your queries are executed using SQLite, so you must conform to the SQL constructs supported by SQLite.

You entered:

select re.name, m.title, ra.stars
from Reviewer as re,
Rating as ra,
Movie as m
where re.rID = ra.rID

Your Answer		Score	Explanation
select re.name, m.title, ra.stars	~	1.00	
from Reviewer as re, Rating as ra,			Correct
Movie as m where re.rlD = ra.rlD and m.mlD = ra.mlD			Your Query Result: James Cameron Avatar 5
and m.director = re.name group by re.name			Expected Query Result: James Cameron Avatar 5
Total		1.00 / 1.00	

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Question Explanation

Note

Even if your solution is marked as correct, it is possible that your query does not correctly reflect the problem at hand. All we check is that your query gets the right answer on the small sample database. For example, if we asked for a complex condition that requires accessing all of the tables, but over our small data set in the end the condition is satisfied only by Star Wars, then the query "select title from Movie where title = 'Star Wars'" will be marked correct even though it doesn't reflect the actual question. Circumventing the system in this fashion will get you a high score on the exercises, but it won't help you learn SQL. On the other hand, an incorrect attempt at a general solution is unlikely to produce the right answer, so you shouldn't be led astray by our checking system.

Question 3

Return all reviewer names and movie names together in a single list, alphabetized. (Sorting by the first name of the reviewer and first word in the title is fine; no need for special processing on last names or removing "The".)

Note: Your queries are executed using SQLite, so you must conform to the SQL constructs supported by SQLite.

You entered:

select re1.name
from Reviewer as re1
group by re1.name
union
select m2.title

Your Answer		Score	Explanation
select re1.name	~	1.00	
from Reviewer as re1 group by re1.name			Correct
union			Your Query Result:
select m2.title			Ashley White
from Movie as m2 group by m2.title			Avatar
			Brittany Harris
			Chris Jackson
			Daniel Lewis
			E.T.

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Elizabeth Thomas

Gone with the Wind

James Cameron

Mike Anderson

Raiders of the Lost Ark

Sarah Martinez

Snow White

Star Wars

The Sound of Music

Titanic

Expected Query Result:

Ashley White

Avatar

Brittany Harris

Chris Jackson

Daniel Lewis

E.T.

Elizabeth Thomas

Gone with the Wind

James Cameron

Mike Anderson

Raiders of the Lost Ark

Sarah Martinez

Snow White

Star Wars

The Sound of Music

Titanic

(Order matters)

Total 1.00 / 1.00

Question Explanation

Note

Even if your solution is marked as correct, it is possible that your query does not correctly reflect

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the problem at hand. All we check is that your query gets the right answer on the small sample database. For example, if we asked for a complex condition that requires accessing all of the tables, but over our small data set in the end the condition is satisfied only by Star Wars, then the query "select title from Movie where title = 'Star Wars'" will be marked correct even though it doesn't reflect the actual question. Circumventing the system in this fashion will get you a high score on the exercises, but it won't help you learn SQL. On the other hand, an incorrect attempt at a general solution is unlikely to produce the right answer, so you shouldn't be led astray by our checking system.

Question 4

Find the titles of all movies not reviewed by Chris Jackson.

Note: Your queries are executed using SQLite, so you must conform to the SQL constructs supported by SQLite.

You entered:

select title
from Movie
group by title
having title not in
(select m.title

Run Query

Your Answer	Score	Explanation
select title	✓ 1.00	
from Movie		Correct
group by title		
having title not in		Your Query Result:
(select m.title		Avatar
from Reviewer as re,		
Rating as ra,		Gone with the Wind
Movie as m		Snow White
where re.rlD = ra.rlD		Star Wars
and m.mID = ra.mID		
and re.name = "Chris Jackson"		Titanic
group by m.title)		
		Expected Query Result:
		Avatar
		Gone with the Wind

Snow White

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Star Wars
Titanic

Total 1.00 / 1.00

Question Explanation

Note

Even if your solution is marked as correct, it is possible that your query does not correctly reflect the problem at hand. All we check is that your query gets the right answer on the small sample database. For example, if we asked for a complex condition that requires accessing all of the tables, but over our small data set in the end the condition is satisfied only by Star Wars, then the query "select title from Movie where title = 'Star Wars'" will be marked correct even though it doesn't reflect the actual question. Circumventing the system in this fashion will get you a high score on the exercises, but it won't help you learn SQL. On the other hand, an incorrect attempt at a general solution is unlikely to produce the right answer, so you shouldn't be led astray by our checking system.

Question 5

For all pairs of reviewers such that both reviewers gave a rating to the same movie, return the names of both reviewers. Eliminate duplicates, don't pair reviewers with themselves, and include each pair only once. For each pair, return the names in the pair in alphabetical order.

Note: Your queries are executed using SQLite, so you must conform to the SQL constructs supported by SQLite.

You entered:

select re1.name, re2.name
from Reviewer as re1,
Reviewer as re2,
Rating as ra1,
Rating as ra2

Your Answer	Score	Explanation
select re1.name, re2.name	✓ 1.00	
from Reviewer as re1,		Correct
Reviewer as re2,		
Rating as ra1,		Your Query Result:
Rating as ra2		Ashley White Chris Jackson
where re1.rID = ra1.rID		- In the same same

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and re2.rlD = ra2.rlD and ra1.mlD = ra2.mlD and re1.name < re2.name group by re1.name, re2.name order by re1.name

Brittany Harris	Chris Jackson
Daniel Lewis	Elizabeth Thomas
Elizabeth Thomas	James Cameron
Mike Anderson	Sarah Martinez

Expected Query Result:

Ashley White	Chris Jackson
Brittany Harris	Chris Jackson
Daniel Lewis	Elizabeth Thomas
Elizabeth Thomas	James Cameron
Mike Anderson	Sarah Martinez

Total 1.00 / 1.00

Question Explanation

Note

Even if your solution is marked as correct, it is possible that your query does not correctly reflect the problem at hand. All we check is that your query gets the right answer on the small sample database. For example, if we asked for a complex condition that requires accessing all of the tables, but over our small data set in the end the condition is satisfied only by Star Wars, then the query "select title from Movie where title = 'Star Wars'" will be marked correct even though it doesn't reflect the actual question. Circumventing the system in this fashion will get you a high score on the exercises, but it won't help you learn SQL. On the other hand, an incorrect attempt at a general solution is unlikely to produce the right answer, so you shouldn't be led astray by our checking system.

Question 6

For each rating that is the lowest (fewest stars) currently in the database, return the reviewer name, movie title, and number of stars.

Note: Your queries are executed using SQLite, so you must conform to the SQL constructs supported by SQLite.

You entered:

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select re.name, m.title, ra.stars
from Movie as m,
Reviewer as re,
Rating as ra
where m.mID = ra.mID

Run Query

Your Answer		Score	Explanation		
select re.name, m.title, ra.stars from Movie as m, Reviewer as re,	~	1.00	Correct		
Rating as ra			Your Query F	Result:	
where m.mID = ra.mID and re.rID = ra.rID			Brittany Harris	Raiders of the Lost Ark	2
and ra.stars = (select min(stars) from Rating)			Brittany Harris	The Sound of Music	2
			Chris Jackson	E.T.	2
					T

Expected Query Result:

Sarah

Martinez

Exposiou Quo	,	
Brittany Harris	Raiders of the Lost Ark	2
Brittany Harris	The Sound of Music	2
Chris Jackson	E.T.	2
Sarah Martinez	Gone with the Wind	2

Gone with the Wind 2

Total 1.00 / 1.00

Question Explanation

Note

Even if your solution is marked as correct, it is possible that your query does not correctly reflect the problem at hand. All we check is that your query gets the right answer on the small sample database. For example, if we asked for a complex condition that requires accessing all of the tables, but over our small data set in the end the condition is satisfied only by Star Wars, then the query "select title from Movie where title = 'Star Wars'" will be marked correct even though it

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doesn't reflect the actual question. Circumventing the system in this fashion will get you a high score on the exercises, but it won't help you learn SQL. On the other hand, an incorrect attempt at a general solution is unlikely to produce the right answer, so you shouldn't be led astray by our checking system.

Question 7

List movie titles and average ratings, from highest-rated to lowest-rated. If two or more movies have the same average rating, list them in alphabetical order.

Note: Your queries are executed using SQLite, so you must conform to the SQL constructs supported by SQLite.

1.00

You entered:

select m.title, avg(ra.stars) as rating
from Movie as m,
Rating as ra
where m.mID = ra.mID
group by m.title

Run Query

Your Answer	Score	Explanation

select m.title, avg(ra.stars) as rating from Movie as m,

Rating as ra where m.mID = ra.mID group by m.title order by rating desc, m.title

Correct

Your Query Result:

Snow White	4.5
Avatar	4.0
Raiders of the Lost Ark	3.33333333333
Gone with the Wind	3.0
E.T.	2.5
The Sound of Music	2.5

Expected Query Result:

Snow White	4.5
Avatar	4.0
Raiders of the Lost Ark	3.33333333333
Gone with the Wind	3.0

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E.T.	2.5
The Sound of Music	2.5

(Order matters)

Total 1.00 / 1.00

Question Explanation

Note

Even if your solution is marked as correct, it is possible that your query does not correctly reflect the problem at hand. All we check is that your query gets the right answer on the small sample database. For example, if we asked for a complex condition that requires accessing all of the tables, but over our small data set in the end the condition is satisfied only by Star Wars, then the query "select title from Movie where title = 'Star Wars'" will be marked correct even though it doesn't reflect the actual question. Circumventing the system in this fashion will get you a high score on the exercises, but it won't help you learn SQL. On the other hand, an incorrect attempt at a general solution is unlikely to produce the right answer, so you shouldn't be led astray by our checking system.

Question 8

Find the names of all reviewers who have contributed three or more ratings. (As an extra challenge, try writing the query without HAVING or without COUNT.)

Note: Your queries are executed using SQLite, so you must conform to the SQL constructs supported by SQLite.

You entered:

select re.name
from Reviewer as re,
Rating as ra
where re.rID = ra.rID
group by ra.rID

Your Answer		Score	Explanation
select re.name	~	1.00	
from Reviewer as re,			Correct
Rating as ra			
where re.rlD = ra.rlD			Your Query Result:
group by ra.rID			Brittany Harris
having count(*) > 2			Zintariy Harrio

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Expected Query Result:

Brittany Harris
Chris Jackson

Total 1.00 / 1.00

Question Explanation

Note

Even if your solution is marked as correct, it is possible that your query does not correctly reflect the problem at hand. All we check is that your query gets the right answer on the small sample database. For example, if we asked for a complex condition that requires accessing all of the tables, but over our small data set in the end the condition is satisfied only by Star Wars, then the query "select title from Movie where title = 'Star Wars'" will be marked correct even though it doesn't reflect the actual question. Circumventing the system in this fashion will get you a high score on the exercises, but it won't help you learn SQL. On the other hand, an incorrect attempt at a general solution is unlikely to produce the right answer, so you shouldn't be led astray by our checking system.

Question 9

Some directors directed more than one movie. For all such directors, return the titles of all movies directed by them, along with the director name. Sort by director name, then movie title. (As an extra challenge, try writing the query both with and without COUNT.)

Note: Your queries are executed using SQLite, so you must conform to the SQL constructs supported by SQLite.

You entered:

select title, director
from Movie
where director in
(select director
from Movie

Your Answer		Score	Explanation
select title, director from Movie	~	1.00	Correct

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where director in
(select director
from Movie
group by director
having count(*) > 1)
order by director, title

Your Query Result:

Avatar	James Cameron
Titanic	James Cameron
E.T.	Steven Spielberg
Raiders of the Lost Ark	Steven Spielberg

Expected Query Result:

Avatar	James Cameron
Titanic	James Cameron
E.T.	Steven Spielberg
Raiders of the Lost Ark	Steven Spielberg

(Order matters)

Total 1.00 / 1.00

Question Explanation

Note

Even if your solution is marked as correct, it is possible that your query does not correctly reflect the problem at hand. All we check is that your query gets the right answer on the small sample database. For example, if we asked for a complex condition that requires accessing all of the tables, but over our small data set in the end the condition is satisfied only by Star Wars, then the query "select title from Movie where title = 'Star Wars'" will be marked correct even though it doesn't reflect the actual question. Circumventing the system in this fashion will get you a high score on the exercises, but it won't help you learn SQL. On the other hand, an incorrect attempt at a general solution is unlikely to produce the right answer, so you shouldn't be led astray by our checking system.

Question 10

Find the movie(s) with the highest average rating. Return the movie title(s) and average rating. (Hint: This query is more difficult to write in SQLite than other systems; you might think of it as finding the highest average rating and then choosing the movie(s) with that average rating.)

Note: Your queries are executed using SQLite, so you must conform to the SQL constructs supported by SQLite.

You entered:

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select m.title, avg(ra.stars) as rate
from Rating as ra,
Movie as m
where m.mID = ra.mID
group by m.mID

Run Query

Your Answer		Score	Explanation
select m.title, avg(ra.stars) as rate	~	1.00	
from Rating as ra, Movie as m			Correct
where m.mID = ra.mID group by m.mID having rate = (select max(rate) from (select mID, avg(stars) as rate from Rating group by mID))			Your Query Result: Snow White 4.5 Expected Query Result: Snow White 4.5
Total		1.00 / 1.00	

Question Explanation

Note

Even if your solution is marked as correct, it is possible that your query does not correctly reflect the problem at hand. All we check is that your query gets the right answer on the small sample database. For example, if we asked for a complex condition that requires accessing all of the tables, but over our small data set in the end the condition is satisfied only by Star Wars, then the query "select title from Movie where title = 'Star Wars'" will be marked correct even though it doesn't reflect the actual question. Circumventing the system in this fashion will get you a high score on the exercises, but it won't help you learn SQL. On the other hand, an incorrect attempt at a general solution is unlikely to produce the right answer, so you shouldn't be led astray by our checking system.

Question 11

Find the movie(s) with the lowest average rating. Return the movie title(s) and average rating. (Hint: This query may be more difficult to write in SQLite than other systems; you might think of it as finding the highest average rating and then choosing the movie(s) with that average rating.)

Note: Your queries are executed using SQLite, so you must conform to the SQL constructs supported by SQLite.

You entered:

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Run Query

Your Answer		Score	Explanation
select m.title, avg(ra.stars) as rate	~	1.00	
from Rating as ra,			Correct
Movie as m			
where m.mID = ra.mID			Your Query Result:
group by m.mID			E.T. 2.5
having rate = (select min(rate) from (select mID, avg(stars) as rate			The Sound of Music 2.5
from Rating			
group by mID))			Expected Query Result:
			E.T. 2.5
			The Sound of Music 2.5

Total 1.00 / 1.00

Question Explanation

Note

Even if your solution is marked as correct, it is possible that your query does not correctly reflect the problem at hand. All we check is that your query gets the right answer on the small sample database. For example, if we asked for a complex condition that requires accessing all of the tables, but over our small data set in the end the condition is satisfied only by Star Wars, then the query "select title from Movie where title = 'Star Wars'" will be marked correct even though it doesn't reflect the actual question. Circumventing the system in this fashion will get you a high score on the exercises, but it won't help you learn SQL. On the other hand, an incorrect attempt at a general solution is unlikely to produce the right answer, so you shouldn't be led astray by our checking system.

Question 12

For each director, return the director's name together with the title(s) of the movie(s) they directed that received the highest rating among all of their movies, and the value of that rating. Ignore movies whose director is NULL.

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Note: Your queries are executed using SQLite, so you must conform to the SQL constructs supported by SQLite.

You entered:

select m.director, m.title, ra.stars

from Movie as m,

Rating as ra,

(select m.director, max(ra.stars) as maxrate

from Rating as ra,

Run Query

Your Answer

select m.director, m.title, ra.stars from Movie as m, Rating as ra, (select m.director, max(ra.stars) as maxrate from Rating as ra, Movie as m where m.mID = ra.mID and m.director not null group by m.director) as table1 where table1.director = m.director and table1.maxrate = ra.stars and ra.mID = m.mID group by m.director

1.00

Score

Your Query Result:

Explanation

Correct

James Cameron	Avatar	5		
Robert Wise	The Sound of Music	3		
Steven Spielberg	Raiders of the Lost Ark	4		
Victor Fleming	Gone with the Wind	4		

Expected Query Result:

James Cameron	Avatar	5
Robert Wise	The Sound of Music	3
Steven Spielberg	Raiders of the Lost Ark	4
	Gone with the Wind	

Total 1.00 / 1.00

Question Explanation

Note

Even if your solution is marked as correct, it is possible that your query does not correctly reflect the problem at hand. All we check is that your query gets the right answer on the small sample database. For example, if we asked for a complex condition that requires accessing all of the tables, but over our small data set in the end the condition is satisfied only by Star Wars, then the

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query "select title from Movie where title = 'Star Wars'" will be marked correct even though it doesn't reflect the actual question. Circumventing the system in this fashion will get you a high score on the exercises, but it won't help you learn SQL. On the other hand, an incorrect attempt at a general solution is unlikely to produce the right answer, so you shouldn't be led astray by our checking system.