Feedback — SQL Movie-Rating Modification Exercises

Help Center

You submitted this quiz on **Wed 18 Mar 2015 9:19 PM PDT**. You got a score of **4.00** out of **4.00**.

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 data modifications. 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 modifications 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 data modification commands using SQL. The quiz runs each modification using SQLite on the original state of the sample database. It then performs a query over the modified database to check whether your command made the correct modification, and restores the database to its original state.

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 full credit.

NOTE: REMEMBER TO CLICK "Submit" WHEN YOU ARE DONE!
Please be patient as it does take time to check all of the exercises.

Question 1

Add the reviewer Roger Ebert to your database, with an rID of 209.

You entered:

```
INSERT INTO Reviewer
    VALUES (209, 'Roger Ebert')
```

Run Command

Your Answer	Score	Explanation
INSERT INTO Reviewer VALUES (209, 'Roger Ebert') ✔	1.00	**Correct** To check your data modification statement, we ran the following query after your modification: *select * from Reviewer order by rID, name* Your Query Result:

201	Sarah Martinez
202	Daniel Lewis
203	Brittany Harris
204	Mike Anderson
205	Chris Jackson
206	Elizabeth Thomas
207	James Cameron
208	Ashley White
209	Roger Ebert

Expected Query Result:

201	Sarah Martinez
202	Daniel Lewis
203	Brittany Harris
204	Mike Anderson
205	Chris Jackson
206	Elizabeth Thomas
207	James Cameron
208	Ashley White
209	Roger Ebert

Total	1.00 / 1.00

Question Explanation

Note
Even if your solution is marked as correct, it is possible that your data modification command does not correctly reflect the problem at hand. All we check is that the verification query gets the right answer on the small sample database. Circumventing the system 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

Insert 5-star ratings by James Cameron for all movies in the database. Leave the review date as NULL.

You entered:

```
insert into Rating
select Re.rID, M.mID, 5, null
  from Reviewer as Re, Rating as Ra, Movie as M
  where Re.rID = Ra.rID
      and Re.name = 'James Cameron'
```

Run Command

Your Answer		Score	Explanation

insert into Rating
select Re.rID, M.mID, 5, null
  from Reviewer as Re, Rating as Ra, Movie as M
  where Re.rID = Ra.rID
  and Re.name = 'James Cameron'
	✔	1.00	**Correct**
			
			To check your data modification statement, we ran the following query after your modification: *select * from Rating where stars = 5 order by rID, mID*
			
			Your Query Result:

206	106	5	2011-01-19
207	101	5	<NULL>
207	102	5	<NULL>
207	103	5	<NULL>
207	104	5	<NULL>

207	105	5	<NULL>
207	106	5	<NULL>
207	107	5	<NULL>
207	107	5	2011-01-20
207	108	5	<NULL>

Expected Query Result:

206	106	5	2011-01-19
207	101	5	<NULL>
207	102	5	<NULL>
207	103	5	<NULL>
207	104	5	<NULL>
207	105	5	<NULL>
207	106	5	<NULL>
207	107	5	<NULL>
207	107	5	2011-01-20
207	108	5	<NULL>

Total 1.00 / 1.00

Question Explanation

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Question 3

For all movies that have an average rating of 4 stars or higher, add 25 to the release year. (Update the existing tuples; don't insert new tuples.)

You entered:

```
update Movie
  set year = year + 25
where mID in
(select mID
  from
```

Run Command

Your Answer	Score	Explanation

update Movie
  set year = year + 25
where mID in
(select mID
  from
(select Ra.mID, avg(Ra.stars) as Avg Stars
  from Rating as Ra
  group by Ra.mID
  having AvgStars >=4)
) ✔
	1.00	**Correct**
		
		To check your data modification statement, we ran the following query after your modification: *select * from Movie order by mID*
		
		Your Query Result:
		101 | Gone with the Wind | 1939 | Victor Fleming
		102 | Star Wars | 1977 | George Lucas
		103 | The Sound of Music | 1965 | Robert Wise
		104 | E.T. | 1982 | Steven Spielberg
		105 | Titanic | 1997 | James Cameron
		106 | Snow White | 1962 | <NULL>
		107 | Avatar | 2034 | James Cameron
		108 | Raiders of the Lost Ark | 1981 | Steven Spielberg
		
		Expected Query Result:
		101 | Gone with the Wind | 1939 | Victor Fleming
		102 | Star Wars | 1977 | George Lucas
		103 | The Sound of Music | 1965 | Robert Wise
		104 | E.T. | 1982 | Steven Spielberg
		105 | Titanic | 1997 | James Cameron
		106 | Snow White | 1962 | <NULL>
		107 | Avatar | 2034 | James Cameron
		108 | Raiders of the Lost Ark | 1981 | Steven Spielberg

Total	1.00 / 1.00	

Question Explanation

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Question 4

Remove all ratings where the movie's year is before 1970 or after 2000, and the rating is fewer than 4 stars.

You entered:

```
delete from Rating
where mID in (select M.mID
                    from Movie as M, Rating as Ra
                    where M.mID = Ra.mID
                          and (M.year < 1970 or M.year > 2000))
```

Run Command

Your Answer		Score	Explanation
delete from Rating where mID in (sel ect M.mID from Movie a s M, Rating as Ra where M.ml D = Ra.mID and (M. year < 1970 or M. year > 2000)) and stars < 4;	✔	1.00	**Correct** To check your data modification statement, we ran the following query after your modification: *select R.rID, R.mID, R.stars, M.title, M.year from Rating R join Movie M on (R.mID = M.mID) order by R.rID, R.mID* Your Query Result:

201	101	4	Gone with the Wind	1939
202	106	4	Snow White	1937
203	108	2	Raiders of the Lost Ark	1981
203	108	4	Raiders of the Lost Ark	1981
205	104	2	E.T.	1982
205	108	4	Raiders of the Lost Ark	1981
206	106	5	Snow White	1937

207	107	5	Avatar	2009
208	104	3	E.T.	1982

Expected Query Result:

201	101	4	Gone with the Wind	1939
202	106	4	Snow White	1937
203	108	2	Raiders of the Lost Ark	1981
203	108	4	Raiders of the Lost Ark	1981
205	104	2	E.T.	1982
205	108	4	Raiders of the Lost Ark	1981
206	106	5	Snow White	1937
207	107	5	Avatar	2009
208	104	3	E.T.	1982

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