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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. Our back-end 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. When you're satisfied with your solution for a given problem, click the "Submit" button to check your answer.

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.

Q1 (1/1 point)

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

```
1 insert into reviewer values (209,'Roger Ebert')
```

Correct

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

Submit   **Reset**

Q2 (1/1 point)

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

Correct

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>

Submit   **Reset**

Q3 (1/1 point)

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.)

```
1 Update Movie
2 set year = year + 25
3 where mID IN
4 (
5 select r.mID from rating r join movie m
6 on r.mID = m.mID
7 group by r.mID
8 having avg(stars) >= 4
9 )
```

Correct

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

Submit   **Reset**

Q4 (1/1 point)

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

```
1 DELETE from rating
2 where stars < 4
3 and mID IN ( select mID from movie where year < 1970 or year > 2000)
```

Correct

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

Submit   **Reset**

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