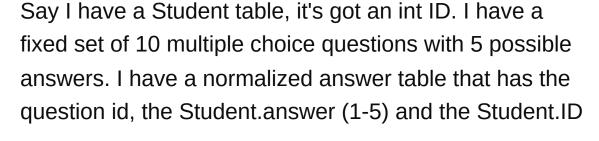
SQL Query Help - Scoring Multiple Choice Tests

Asked 16 years, 4 months ago Modified 16 years, 2 months ago Viewed 2k times



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I'm trying to write a single query that will return all scores over a certain pecentage. To this end I wrote a simple UDF that accepts the Student.answers and the correct answer, so it has 20 parameters.

I'm starting to wonder if it's better to denormalize the answer table, bring it into my application and let my application do the scoring.

Anyone ever tackle something like this and have insight?

dynamic-sql

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edited Sep 26, 2008 at 19:46



Chris

6,842 • 6 • 53 • 67

asked Aug 22, 2008 at 13:53



6 Answers

Sorted by:

Highest score (default)





If I understand your schema and question correctly, how about something like this:











That should select the students with a score of 7 or more, for example. Just adjust the where clause for your purposes.

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answered Aug 22, 2008 at 14:11



Dave Ward **60.5k** • 14 • 118 • 134



I would probably leave it up to your application to perform the scoring. Check out <u>Maybe Normalizing Isn't Normal</u> **1** by Jeff Atwood.



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Bryan Roth **10.7k** • 15 • 49 • 56





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The architecture you are talking about could become very cumbersome in the long run, and if you need to change the questions it means more changes to the UDF you are using.



I would think you could probably do your analysis in code without necessarily de-normalizing your database. Denormalization could also lend to inflexibility, or at least added expense to update, down the road.



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answered Aug 22, 2008 at 14:00



palehorse **27.4k** • 4 • 42 • 49



No way, you definitely want to keep it normalized. It's not even that hard of a query.

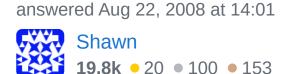




Basically, you want to left join the students correct answers with the total answers for that question, and do a count. This will give you the percent correct. Do that for each student, and put the minimum percent correct in a where clause.



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Denormalization is generally considered a last resort. The problem seems very similar to survey applications, which are very common. Without seeing your data model, it's difficult to propose a solution, but I will say that it is definitely possible. I'm wondering why you need 20 parameters to that function?





A relational set-based solution will be simpler and faster in most cases.

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answered Aug 22, 2008 at 14:02



Eric Z Beard





This query should be quite easy... assuming you have the correct answer stored in the question table. You do have the correct answer stored in the question table, right?



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answered Aug 22, 2008 at 14:28



Stu

15.8k • 4 • 45 • 74



