

I'm trying to solve SQL problem - https://sqlzoo.net/wiki/NSS_Tutorial, question no 6

Asked 1 month ago Modified 1 month ago Viewed 83 times



Question: show the percentage of students who `A_STRONGLY_AGREE` to question 22 for the subject '(8) Computer Science'; show the same figure for the subject '(H) Creative Arts and Design'.

1

Use the `ROUND` function to show the percentage without decimal places.



I can't understand how to use round function and percentage works together



My code:



```
SELECT
    subject,
    ROUND(SUM(response * A_STRONGLY_AGREE) / 100, 0)
FROM
    nss
WHERE
    question = 'Q22'
    AND subject IN ('(8) Computer Science', '(H) Creative Arts and Design')
GROUP BY
    subject
```

sql

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edited Dec 31, 2023 at 7:06



marc_s

740k

177

1348

1468

asked Dec 31, 2023 at 3:39



importdev

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- 1 No, your problem is not "how to use round function and percentage [...] together", but a semantic one. `SUM(response * A_STRONGLY_AGREE)` gives you the number of students who `A_STRONGLY_AGREE`. Dividing this by 100 doesn't give you the percentage. You must divide by the total responses instead. See Chaithra KC's answer. – [Thorsten Kettner](#) Dec 31, 2023 at 8:51

1 Answer

Sorted by: Highest score (default)



This query should work for the given problem.

2

```
SELECT subject, ROUND(SUM(A_STRONGLY_AGREE * response)/SUM(response))
FROM nss
```



```
WHERE question='Q22'  
AND subject in('(8) Computer Science','(H) Creative Arts and Design')  
GROUP BY subject
```



1. $\text{SUM}(\text{A_STRONGLY_AGREE} * \text{response})$:

This expression computes the total count of responses where students strongly agree with the specified question and subjects.

2. $\text{SUM}(\text{response})$:

This part calculates the total number of responses received for the specified question and subjects including all the possible choices.

3. $\text{SUM}(\text{A_STRONGLY_AGREE} * \text{response}) / \text{SUM}(\text{response})$:

With the values obtained in the previous steps, this expression computes the percentage of students.

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[edited Dec 31, 2023 at 21:16](#)

[answered Dec 31, 2023 at 4:29](#)



[Chaithra KC](#)

31 4

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- 1 Correct. You can remove $/ 100 * 100$ and just keep $\text{ROUND}(\text{SUM}(\text{A_STRONGLY_AGREE} * \text{response}) / \text{SUM}(\text{response}))$. – [Thorsten Kettner](#) Dec 31, 2023 at 8:44
-
- 1 @Thorsten Kettner - I have updated my answer. Removing those unnecessary steps simplifies the query, and your suggestion makes it more concise and efficient. Thanks! – [Chaithra KC](#) Dec 31, 2023 at 21:17
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