

2346. Compute the Rank as a Percentage Premium

Medium  Topics

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Table: `Students`

Column Name	Type
student_id	int
department_id	int
mark	int

student_id contains unique values.

Each row of this table indicates a student's ID, the ID of the department in which the student enrolled, and their mark in the exam.

Write a solution to report the rank of each student in their department as a percentage, where the rank as a percentage is computed using the following formula: $(\text{student_rank_in_the_department} - 1) * 100 / (\text{the_number_of_students_in_the_department} - 1)$. The `percentage` should be **rounded to 2 decimal places**. `student_rank_in_the_department` is determined by **descending** `mark`, such that the student with the highest `mark` is `rank 1`. If two students get the same mark, they also get the same rank.

Return the result table in **any order**.

The result format is in the following example.

Example 1:

Input:

Students table:

student_id	department_id	mark
2	2	650
8	2	650
7	1	920
1	1	610
3	1	530

Output:

student_id	department_id	percentage
7	1	0.0
1	1	50.0
3	1	100.0
2	2	0.0
8	2	0.0

Explanation:

For Department 1:

- Student 7: `percentage = (1 - 1) * 100 / (3 - 1) = 0.0`
- Student 1: `percentage = (2 - 1) * 100 / (3 - 1) = 50.0`
- Student 3: `percentage = (3 - 1) * 100 / (3 - 1) = 100.0`


For Department 2:

- Student 2: `percentage = (1 - 1) * 100 / (2 - 1) = 0.0`
- Student 8: `percentage = (1 - 1) * 100 / (2 - 1) = 0.0`


Seen this question in a real interview before? 1/5

Yes No

Accepted 5.4K | Submissions 16.1K | Acceptance Rate 33.6%

 Topics

Database

 Discussion (4)