Table: `Students`

```
+---------------+------+
| Column Name   | Type |
+---------------+------+
| student_id    | int  |
| department_id | int  |
| mark          | int  |
+---------------+------+
student_id is the primary key of this table.
Each row of this table indicates a student&#39;s ID, the ID of the department in which the s
```

Write an SQL query that reports the rank of each student in their department as a percentage, where the rank as a percentage is computed using the following formula: `(student_rank_in_the_department - 1) * 100 / (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 query 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
```