

1211. Queries Quality and Percentage

Description

Table: `Queries`

Column Name	Type
query_name	varchar
result	varchar
position	int
rating	int

This table may have duplicate rows.
This table contains information collected from some queries on a database.
The `position` column has a value from 1 to 500.
The `rating` column has a value from 1 to 5. Query with `rating` less than 3 is a poor query.

We define query `quality` as:

The average of the ratio between query rating and its position.

We also define `poor query percentage` as:

The percentage of all queries with rating less than 3.

Write a solution to find each `query_name`, the `quality` and `poor_query_percentage`.

Both `quality` and `poor_query_percentage` should be **rounded to 2 decimal places**.

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

The result format is in the following example.

Example 1:

Input:
Queries table:

query_name	result	position	rating
Dog	Golden Retriever	1	5
Dog	German Shepherd	2	5
Dog	Mule	200	1
Cat	Shirazi	5	2
Cat	Siamese	3	3
Cat	Sphynx	7	4

Output:

query_name	quality	poor_query_percentage
Dog	2.50	33.33
Cat	0.66	33.33

Explanation:
Dog queries quality is ((5 / 1) + (5 / 2) + (1 / 200)) / 3 = 2.50
Dog queries poor_ query_percentage is (1 / 3) * 100 = 33.33

Cat queries quality equals ((2 / 5) + (3 / 3) + (4 / 7)) / 3 = 0.66
Cat queries poor_ query_percentage is (1 / 3) * 100 = 33.33

