

1211. Queries Quality and Percentage

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SQL Schema

Table: Queries

Column Name	Type
query_name	varchar
result	varchar
position	int
rating	int

There is no primary key for this table, it 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 an SQL query to find each query_name, the quality and poor_query_percentage.

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

The query result format is in the following example:

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

Result table:

query_name	quality	poor_query_percentage
Dog	2.50	33.33
Cat	0.66	33.33

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 $(1 / 3) * 100 = 33.33$

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YesNo

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