2051. The Category of Each Member in the Store

Description

Table: Members | Column Name | Type | member_id | int | varchar | name member_id is the column with unique values for this table. Each row of this table indicates the name and the ID of a member.

Table: Visits

| ++ | | | | | | | |
|---|--|--|--|--|--|--|--|
| Column Name Type | | | | | | | |
| ++ | | | | | | | |
| visit_id int | | | | | | | |
| member_id int | | | | | | | |
| visit_date date | | | | | | | |
| +++ | | | | | | | |
| visit_id is the column with unique values for this table. | | | | | | | |
| member_id is a foreign key (reference column) to member_id from the Members table. | | | | | | | |
| Each row of this table contains information about the date of a visit to the store and the member who visited it. | | | | | | | |

Table: Purchases

| ++ | | | | | | |
|--|--|--|--|--|--|--|
| Column Name Type | | | | | | |
| ++ | | | | | | |
| visit_id int | | | | | | |
| charged_amount int | | | | | | |
| ++ | | | | | | |
| visit_id is the column with unique values for this table. | | | | | | |
| visit_id is a foreign key (reference column) to visit_id from the Visits table. | | | | | | |
| ach row of this table contains information about the amount charged in a visit to the store. | | | | | | |

A store wants to categorize its members. There are three tiers:

- "Diamond": if the conversion rate is greater than or equal to 80.
- "Gold": if the conversion rate is greater than or equal to 50 and less than 80.
- "Silver": if the conversion rate is less than 50.
- "Bronze": if the member never visited the store.

The conversion rate of a member is (100 * total number of purchases for the member) / total number of visits for the member .

Write a solution to report the id, the name, and the category of each member.

Return the result table in any order.

The result format is in the following example.

Example 1:

| put: bers tabl | e. | | | | |
|--------------------------|------------|--------------------|--|--|--|
| | -++ | | | | |
| ember_id | name | | | | |
| 1 | Alice | | | | |
| .1 | Bob | | | | |
| ; | Winston | | | | |
| } | Hercy | | | | |
| | Narihan | | | | |
| | -++ | | | | |
| sits table | : : | | | | |
| /isit_id | member_id | ++ visit_date | | | |
| + !2 | 11 | ++ 2021-10-28 | | | |
| .6 | 11 | 2021–01–12 | | | |
| .8 | 9 | 2021–12–10 | | | |
| .9 | 3 | 2021–10–19 | | | |
| .2 | 11 | 2021-03-01 | | | |
| .7 | 8 | 2021–05–07 | | | |
| 21 | 9 | 2021–05–12 | | | |
| chases ta | | ++ | | | |
| isit_id | charged_am | ount | | | |
| + .2 | 2000 | | | | |
| .8 | 9000 | | | | |

Output:

| ++ | | | | | | | | | |
|-----------------------|--|----------|--|--|--|--|--|--|--|
| + member_id + | name | category | | | | | | | |
| 1 3 8 | Narihan Winston Hercy Alice | Bronze | | | | | | | |
| | | | | | | | | | |

Explanation:

- User Narihan with id = 1 did not make any visits to the store. She gets a Bronze category.
- User Winston with id = 3 visited the store one time and did not purchase anything. The conversion rate = (100 * 0) / 1 = 0. He gets a Silver category.
- User Hercy with id = 8 visited the store one time and purchased one time. The conversion rate = (100 * 1) / 1 = 1. He gets a Diamond category.
- User Alice with id = 9 visited the store two times and purchased one time. The conversion rate = (100 * 1) / 2 = 50. She gets a Gold category.
- User Bob with id = 11 visited the store three times and purchased one time. The conversion rate = (100 * 1) / 3 = 33.33. He gets a Silver category.