**Question:**

**Today's Question:**

You are tracking your friends' New Year's resolution progress. Write a query to calculate the following for each friend: number of resolutions they made, number of resolutions they completed, and success percentage (% of resolutions completed) and a success category based on the success percentage:

- **Green**: If success percentage is greater than 75%.
- **Yellow**: If success percentage is between 50% and 75% (inclusive).
- **Red**: If success percentage is less than 50%.

**Table name:** resolutions

| resolution_id | friend_name | resolution | is_completed |
|---|---|---|---|
| 1 | Alice | Exercise daily | 1 |
| 2 | Alice | Read 20 books | 0 |
| 3 | Bob | Save money | 0 |
| 4 | Bob | Eat healthier | 1 |
| 5 | Charlie | Travel more | 1 |
| 6 | Charlie | Learn a new skill | 1 |
| 7 | Diana | Volunteer monthly | 1 |
| 8 | Diana | Drink more water | 0 |
| 9 | Diana | Sleep 8 hours | 1 |

**Question level of difficulty:** Medium 🎅🎅🎅

**SQL Query:**

```sql
SELECT
    friend_name,
    COUNT(resolution) AS num_of_resolutions_made,
    SUM(is_completed) AS num_of_resolutions_completed,
    SUM(is_completed)*100/COUNT(resolution) AS  success_percentage,
    CASE
       WHEN (SUM(is_completed)*100/COUNT(resolution)) > 75 THEN 'Green'
       WHEN (SUM(is_completed)*100/COUNT(resolution)) >= 50 THEN 'Yellow'
       ELSE 'Red'
    END AS pct_resolutions_completed
FROM
    resolutions
GROUP BY friend_name;
```

**Output:**

| FRIEND_NAME | NUM_OF_RESOLUTIONS_MADE | NUM_OF_RESOLUTIONS_COMPLETED | SUCCESS_PERCENTAGE | PCT_RESOLUTIONS_COMPLETED |
| --- | --- | --- | --- | --- |
| Alice | 2 | 1 | 50 | Yellow |
| Bob | 2 | 1 | 50 | Yellow |
| Charlie | 2 | 2 | 100 | Green |
| Diana | 3 | 2 | 66 | Yellow |

Correct!! 🎉 Great work!