

# SQL Advent Calendar

Over the 12 days of her data challenge, Data Dawn tracked her daily quiz scores across different subjects....

Question 1: Over the 12 days of her data challenge, Data Dawn tracked her daily quiz scores across different subjects. Can you find each subject's first and last recorded score to see how much she improved?

```
WITH FirstScores AS (
    SELECT
        subject,
        score AS first_score
    FROM (
        SELECT
            subject,
            score,
            ROW_NUMBER() OVER (PARTITION BY subject ORDER BY q
uiz_date ASC) as rn
        FROM daily_quiz_scores
    ) AS sub_first
    WHERE rn = 1
),
LastScores AS (
    SELECT
        subject,
        score AS last_score
    FROM (
        SELECT
            subject,
            score,
            ROW_NUMBER() OVER (PARTITION BY subject ORDER BY q
uiz_date DESC) as rn
        FROM daily_quiz_scores
    ) AS sub_last
    WHERE rn = 1
)
SELECT
    f.subject,
    f.first_score,
    l.last_score,
    (l.last_score - f.first_score) AS improvement
FROM FirstScores AS f
JOIN LastScores AS l ON f.subject = l.subject;
```

