96_DNA Pattern Recognition Medium - Solution

Source - https://leetcode.com/problems/dna-pattern-recognition/description/

Running Notes:

Write a solution to identify sample_id with the following patterns:

- Sequences that start with ATG (a common start codon)
- Sequences that end with either TAA, TAG, or TGA (stop codons)
- Sequences containing the motif ATAT (a simple repeated pattern)
- Seguences that have at least 3 consecutive G (like GGG or GGGG)

Return the result table ordered by sample_id in **ascending** order.

```
-- Write your PostgreSQL query statement below
SELECT *,
CASE
WHEN dna_sequence LIKE 'ATG%' THEN 1
ELSE 0
END AS has_start,
CASE
WHEN dna_sequence LIKE '%TAA' OR dna_sequence LIKE '%TAG' OR dna_sequence
ELSE 0
END AS has_stop,
CASE
WHEN dna_sequence LIKE '%ATAT%' THEN 1
ELSE 0
END AS has_atat,
CASE
WHEN dna_sequence LIKE '%GGG%' THEN 1
ELSE 0
```

END AS has_ggg FROM Samples

Here's the syntax for LIKE and if we have multiple conditions (for point number 2 follow this syntax)

```
SELECT ...
FROM ...
WHERE column LIKE ...
AND/OR column NOT LIKE ...;
```

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