Day 20
MySQL Loops- (Part 3)
REPEAT Statement

REPEAT Statement in MySQL

The **REPEAT** statement executes one or more statements until a search condition is true.

REPEAT statements can be only used within Stored Procedures.

General Syntax :

```
[begin_label:] REPEAT
        statement
UNTIL search_condition
END REPEAT [end_label]
```
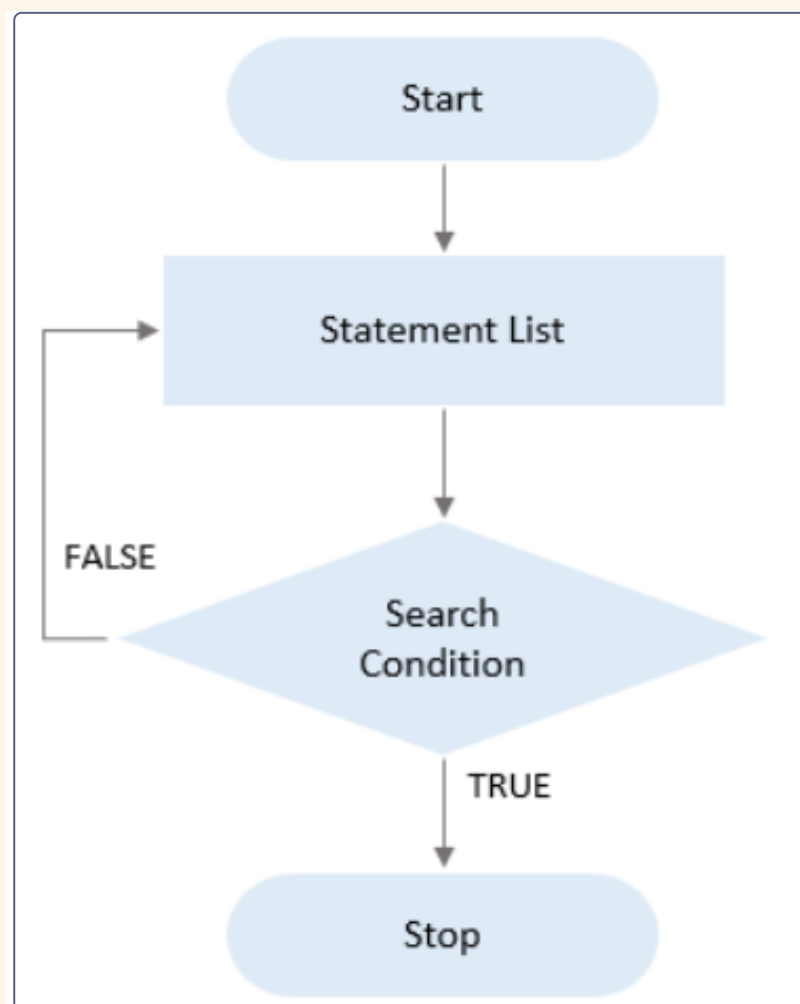
Key Points:

- The **REPEAT** executes the statement until the search_condition evaluates to true.
- The **REPEAT** checks the search_condition after the execution of the statement, therefore, the statement always executes at least once.
- The **REPEAT** statement can have labels at the beginning and at the end. These labels are optional.

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The following flowchart illustrates the MySQL REPEAT loop statement:

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Use Case Example :

Problem Statement: To concatenate numbers from 1 to 9.

Query :

```sql
DELIMITER //

CREATE PROCEDURE RepeatDemo()
BEGIN
    DECLARE counter INT DEFAULT 1;
    DECLARE output VARCHAR(50) DEFAULT '';

    REPEAT
        SET output = CONCAT(output, counter,', ');
        SET counter = counter + 1;
    UNTIL counter >= 10
    END REPEAT;

    SELECT output;
END //

DELIMITER ;
```

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Procedure call :

```
CALL RepeatDemo();
```

Output :

	output
▶	1, 2, 3, 4, 5, 6, 7, 8, 9,