

Day 18 MySQL Loops- (Part 1) LOOP Statement





LOOP Statement in MySQL

 The LOOP statement allows you to execute one or more statements repeatedly.

MySQL loops can be only used within Stored Procedures.



General Syntax:

```
[begin_label:] L00P
    statement_list
END L00P [end_label]
```



Key Points:

- 1. The **LOOP** can have optional labels at the beginning and end of the block.
- 2. The **LOOP** executes the statement_list repeatedly.
- 3. The statement_list may have one or more statements, each terminated by a semicolon (;) statement delimiter.



LEAVE & ITERATE Statemensts

- The LEAVE statement immediately exits the loop.
 - It works like the **break** statement in other programming languages like PHP, C/C++, and Java.
- The **ITERATE** statement is used to skip the current loop iteration and start a new iteration.
 - The ITERATE is similar to the continue statement in PHP, C/C++, and Java.



Use Case Example:

Problem Statement: To print all even numbers up to n, where n is any user-input number.

Query:

```
DELIMITER //
CREATE PROCEDURE get_even_nos(
    IN N INT
BEGIN
    DECLARE x int;
    DECLARE output VARCHAR(20);
    SET x = 1;
    SET output = "";
    loop_label_name : LOOP
        IF x = N THEN
           LEAVE loop_label_name;
        ELSEIF x%2 = 0 THEN
            SET output = CONCAT(output,x,', ');
        END IF;
    SET x = x + 1;
    END LOOP;
    SELECT output;
END //
DELIMITER;
```

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