

Day 19 MySQL Loops- (Part 2) WHILE Statement





WHILE Statement in MySQL

 The WHILE loop is a loop statement that executes a block of code repeatedly as long as a condition is true.

WHILE statements can be only used within Stored Procedures.



General Syntax:

```
[begin_label:] WHILE search_condition D0
statement_list
END WHILE [end_label]
```

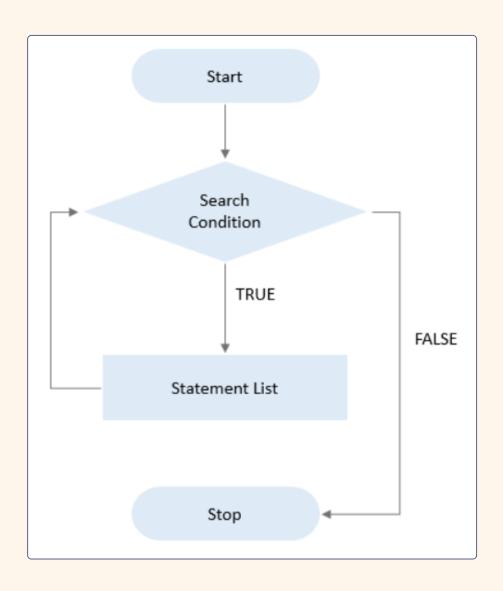


Key Points:

- The **WHILE** checks the search_condition at the beginning of each iteration.
 - If the search_condition evaluates to TRUE,
 the WHILE executes the statement_list as
 long as the search_condition is TRUE.
- The WHILE executes one or more statements that will execute between the DO and END WHILE keywords.



The following flowchart illustrates the MySQL WHILE loop statement:





Use Case Example:

Problem Statement: To print the first 10 multiples of any given number.

Query:

```
DELIMITER //

CREATE PROCEDURE getMultiples(
    IN num int
    )

BEGIN
    DECLARE x INT;
    DECLARE output VARCHAR(50);

SET x = 1;
    SET output = "";

WHILE x<=10 DO
    SET output = CONCAT(output,num*x,', ');
    SET x = x + 1;
    END WHILE;

SELECT output;
END //

DELIMITER;</pre>
```

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