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MySQL IF Statement

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**Summary***:*in this tutorial, you will learn how to use **MySQL IF statement** to execute a block of SQL code based on conditions.

The MySQL IF statement allows you to execute a set of SQL statements based on a certain condition or value of an expression. To form an expression in MySQL, you can combine literals, [variables](http://www.mysqltutorial.org/variables-in-stored-procedures.aspx), operators, and even [functions](http://www.mysqltutorial.org/mysql-functions.aspx). An expression can return one of three values TRUE FALSE, or NULL.

Note that there is an [IF function](http://www.mysqltutorial.org/mysql-if-function.aspx) that is different from the IF statement specified in this tutorial.

MySQL IF statement syntax

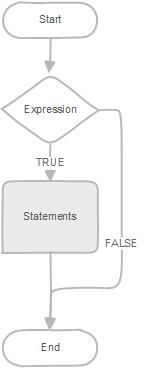
The following illustrates the syntax of the IF statement:



|  |  |
| --- | --- |
| 1  2  3 | IF expression THEN     statements;  END IF; |

If the expression evaluates to TRUE , then the statements will be executed, otherwise, the control is passed to the next statement following the END IF.

The following flowchart demonstrates the IF statement:



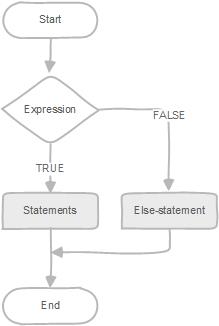
MySQL IF ELSE statement

In case you want to execute statements when the expression evaluates to FALSE , you use the IF ELSEstatement as follows:



|  |  |
| --- | --- |
| 1  2  3  4  5 | IF expression THEN     statements;  ELSE     else-statements;  END IF; |

The following flowchart illustrates the IF ELSE statement:



MySQL IF ELSEIF ELSE statement

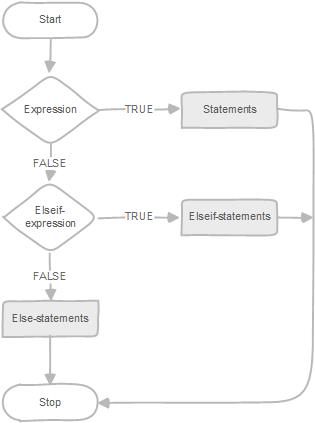
If you want to execute statements conditionally based on multiple expressions, you use the IF ELSEIF ELSE statement as follows:



|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8 | IF expression THEN     statements;  ELSEIF elseif-expression THEN     elseif-statements;  ...  ELSE     else-statements;  END IF; |

If the *expression*evaluates to TRUE , the statements in the IF branch executes. If the expressionevaluates to FALSE , MySQL will check the *elseif-expression* and execute the elseif-statements in the ELSEIF branch if the *elseif\_expression* evaluates to TRUE .

The IF statement may have multiple ELSEIF branches to check multiple expressions. If no expression evaluates to TRUE, the else-statements in the ELSE branch will execute.



MySQL IF statement examples

The following example illustrates how to use the IF ESLEIF ELSE statement. The GetCustomerLevel()   stored procedure accepts two parameters customer number and customer level.

First, it gets the credit limit from the customers table.

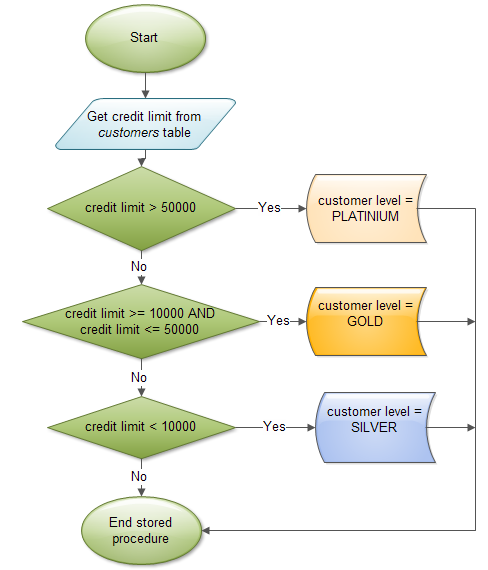
Then, based on the credit limit, it determines the customer level: PLATINUM , GOLD , and SILVER .

The parameter p\_customerlevel stores the level of the customer and is used by the calling program.



|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21 | DELIMITER $$    CREATE PROCEDURE GetCustomerLevel(      in  p\_customerNumber int(11),      out p\_customerLevel  varchar(10))  BEGIN      DECLARE creditlim double;        SELECT creditlimit INTO creditlim      FROM customers      WHERE customerNumber = p\_customerNumber;        IF creditlim > 50000 THEN  SET p\_customerLevel = 'PLATINUM';      ELSEIF (creditlim <= 50000 AND creditlim >= 10000) THEN          SET p\_customerLevel = 'GOLD';      ELSEIF creditlim < 10000 THEN          SET p\_customerLevel = 'SILVER';      END IF;    END$$ |

The following flowchart demonstrates the logic of determining customer level.

[](http://www.mysqltutorial.org/wp-content/uploads/2013/01/mysql-if-statement-flow-chart.png)

In this tutorial, you have learned how to use MySQL IF statement to execute a block of SQL code based on conditions.

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