

Ex.No: 12

Date:

Simple programming exercise using(CASE and LOOP)

Aim:

To learn how to use various MySQL loop statements including case and loop to run a block of code repeatedly based on a condition.

Procedure:

In MySQL, the CASE statement has the functionality of an IF-THEN-ELSE statement and has 2 syntaxes that we will explore.

CASE Syntax

CASE case_value

WHEN when_value THEN statement_list

[WHEN when_value THEN statement_list] ...

[ELSE statement_list]

END CASE

Program 1:

Write a function that uses CASE statement where if monthly_value is equal to or less than 4000, then income_level will be set to 'Low Income'. If monthly_value is equal to or less than 5000, then income_level will be set to 'Avg Income'. Otherwise, income_level will be set to 'High Income'.

Procedure:

LOOP Syntax

[begin_label:] LOOP

statement_list

END LOOP [end_label]

LOOP implements a simple loop construct, enabling repeated execution of the statement list, which consists of one or more statements, each terminated by a semicolon

(;) statement delimiter. The statements within the loop are repeated until the loop is terminated. Usually, this is accomplished with a LEAVE statement. Within a stored function, RETURN can also be used, which exits the function entirely.

Program 2:

Write a function that will use ITERATE statement which would cause the loop to repeat while income is less than 4000. Once income is greater than or equal to 4000, would terminate the LOOP.

1)

```
mysql> CREATE FUNCTION INCOMELEVEL(MONTHLY_VALUE INT) RETURNS VARCHAR(20) BEGIN
DECLARE income_level VARCHAR(20); CASE MONTHLY_VALUE WHEN 4000 THEN SET income_l
LEVEL='LOW INCOME'; WHEN 5000 THEN SET income_level='AVG INCOME'; ELSE SET INCOME
LEVEL='HIGH INCOME'; RETURN income_level; END; //
ERROR 1804 (42000): You have an error in your SQL syntax; check the manual that
corresponds to your MySQL server version for the right syntax to use near '' at
line 1
mysql> DELIMITER //
mysql>
mysql> CREATE FUNCTION IncomeLevel ( monthly_value INT )
-> RETURNS varchar(20)
->
-> BEGIN
->
-> DECLARE income_level varchar(20);
->
-> CASE monthly_value
->   WHEN 4000 THEN
->     SET income_level = 'Low Income';
->
->   WHEN 5000 THEN
->     SET income_level = 'Avg Income';
->
->   ELSE
->     SET income_level = 'High Income';
-> END CASE;
->
-> RETURN income_level;
->
-> END; //
Query OK, 0 rows affected (0.01 sec)

mysql> SELECT INCOMELEVEL(5300); //
+-----+
| INCOMELEVEL(5300) |
+-----+
| High Income       |
+-----+
```



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