



DBMS EXPERIMENT 14:

Simple programming exercise using (CASE and LOOP)

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'.

OUTPUT:

```
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 1064 (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      |
+-----+
1 row in set (0.00 sec)

mysql>
```

