

Error Code: 1418.

Error Code: 1418. This function has none of DETERMINISTIC, NO SQL, or READS SQL DATA in its declaration and binary logging is enabled...

Let's begin by saying that a *log* is a software component where you can save information about some events or errors that happened during the execution of a certain application.

A log is preserved for traceability or debugging reasons, and this is how it is used in MySQL as well.

Consequently, a *Binary Log* is a log that contains database changes.

This type of logging affects the way in which we need to structure our code when creating MySQL functions.

When the Binary Log has been enabled, it will always check whether a function is changing the data in the database and what is the result to be produced.

The situation can be described like this.

Unless we specify what the exact behaviour of our function should be, our code will lead to an error.

This error is with code 1418 and states that the function has none of the following characteristics in its declaration:

DETERMINISTIC, NO SQL, or READS SQL DATA.

To solve this error, we must include one (or more) of these characteristics

They must be placed right after we 've specified the return type of the function.

Here's the syntax to use:

**create function <function name> <function parameters> returns <type>
<characteristics> ...**

Let's check the meaning of these characteristics:

- DETERMINISTIC – it states that the function will always return identical result given the same input
- NO SQL – means that the code in our function does not contain SQL (rarely the case)
- READS SQL DATA – this is usually when a simple SELECT statement is present

When none of those is present in our code, MySQL assumes that our function is nondeterministic and that it changes data.

This might not be the case, but still, in the end, an error is raised just because MySQL cannot know a priori what our function will do.

Adding one of those to our code will prevent this error of showing up.

That said, there is another way to stop the error - by *disabling* the binary log when creating functions.

And we can achieve this by executing the following command:

```
SET @@global.log_bin_trust_function_creators := 1;
```

Technically speaking, this operation isn't the safest one out there.

In conclusion, remember that sometimes the Binary Log may be disabled anyway and you don't have to take any of the above actions.