MySQL will display the source code for your function if you use **show create function** with the function name.

Demo 01:   Showing the code for the function `newsalary_6.` Using \G as a command terminator makes this more readable.

```
Show  create function newsalary_6 \G
*************************** 1. row ***************************
           Function: newsalary_6
           sql_mode: STRICT_TRANS_TABLES,NO_AUTO_CREATE_USER,NO_ENGINE_SUBSTITU
TION
    Create Function: CREATE DEFINER=`a_rose`@`localhost` FUNCTION `newsalary_6`
(
   in_salary    decimal (9,2)
 , in_dept      int
 , in_hire_date date ) RETURNS decimal(10,2)
begin
    declare  v_year_hired  decimal (4,0);
    declare  v_new_salary  decimal (10,2);

    set v_year_hired  := extract(year from in_hire_date);
    set v_new_salary := newsalary_5(in_salary, in_dept);
    if v_year_hired = extract(year from curdate())
    then
        set v_new_salary := in_salary;
    end if;
    return  v_new_salary;
end
character_set_client: latin1
collation_connection: latin1_swedish_ci
  Database Collation: latin1_swedish_ci
```

Your source code is stored in a table that MySQL maintains and you can access it via the information_schema.routines view.

Demo 02:   This displays the body of a function but not the header. (I have narrowed the header columns. The routine code body is displayed in a single cell,

```
    delimiter ;
    select routine_definition
      from information_schema.routines
      where routine_type = 'function'
      and  routine_name = 'newsalary_6';
    +------------------------------------------------------------------------+
    | routine_definition                                                     |
    +------------------------------------------------------------------------+
    | begin
        declare  v_year_hired  decimal (4,0);
        declare  v_new_salary  decimal (10,2);

        set v_year_hired  := extract(year from in_hire_date);
        set v_new_salary := newsalary_5(in_salary, in_dept);
        if v_year_hired = extract(year from curdate())
        then
            set v_new_salary := in_salary;
        end if;
        return  v_new_salary;
      end |
    +------------------------------------------------------------------------+
```

Demo 03:   This shows you information about the parameters for this function..

```
select parameter_name, ordinal_position, data_type, parameter_mode
from information_schema.parameters
where specific_name = 'newsalary_6';
+----------------+------------------+-----------+----------------+
| parameter_name | ordinal_position | data_type | parameter_mode |
+----------------+------------------+-----------+----------------+
| NULL           |                0 | decimal   | NULL           |
| in_salary      |                1 | decimal   | IN             |
| in_dept        |                2 | int       | IN             |
| in_hire_date   |                3 | date      | IN             |
+----------------+------------------+-----------+----------------+
```

Demo 04:   Looking for routines that use certain data types

```
select specific_name
, parameter_name
, ordinal_position
, parameter_mode
from information_schema.parameters
where data_type = 'date';
+---------------+----------------+------------------+----------------+
| specific_name | parameter_name | ordinal_position | parameter_mode |
+---------------+----------------+------------------+----------------+
| newsalary_6   | in_hire_date   |                3 | IN             |
+---------------+----------------+------------------+----------------+

select specific_name
, parameter_name
, ordinal_position
, parameter_mode
from information_schema.parameters
where data_type = 'int';
+------------------------+----------------+------------------+----------------+
| specific_name          | parameter_name | ordinal_position | parameter_mode |
+------------------------+----------------+------------------+----------------+
| DeptEmployeeCount      | NULL           |                0 | NULL           |
| DeptEmployeeCount      | p_dept_id      |                1 | IN             |
| empjobtitle            | in_emp_id      |                1 | IN             |
| newsalary_5            | in_dept        |                2 | IN             |
| newsalary_5_V2         | in_dept        |                2 | IN             |
| newsalary_6            | in_dept        |                2 | IN             |
+------------------------+----------------+------------------+----------------+
```