Function

SID：12310401

Name：王子恒

1.

```
1   -- Active: 1727157595209@@127.0.0.1@5432@tab1@public    PostgreSQL   tab1
    ▷ Run | Copy
2   CREATE FUNCTION one() RETURNS integer AS $$
3   SELECT 1 AS result;
4   $$ LANGUAGE SQL;
5
    ▷ Run | Copy
6   CREATE OR REPLACE FUNCTION one() RETURNS integer AS 'SELECT 1 AS result;' LANGUAGE
    ▷ Run | New Tab | JSON
7   SELECT one();   5ms
    ▷ Run | New Tab | JSON
8   SELECT one() As answer;
```

Result

搜索结果集

耗时: 5ms   1

one

Filter

1

```
1   -- Active: 1727157595209@@127.0.0.1@5432@lab1@public   PostgreSQL   lab1
      ▷ Run | Copy
2   CREATE FUNCTION one() RETURNS integer AS $$
3   SELECT 1 AS result;
4   $$ LANGUAGE SQL;
5
      ▷ Run | Copy
6   CREATE OR REPLACE FUNCTION one() RETURNS integer AS 'SELECT 1 AS result;' LANGUAGE
      ▷ Run | New Tab | JSON
7   SELECT one();
      ▷ Run | New Tab | JSON
8   SELECT one() As answer;  4ms
9
10
11
12
13
14
15
16
17
```

Result ✕

搜索结果集   ⚙ ✉1 🐙 + + 🗑 ↻ ↑   ↓ 导出   ▷ 👁 耗时: 4ms ‹ 1

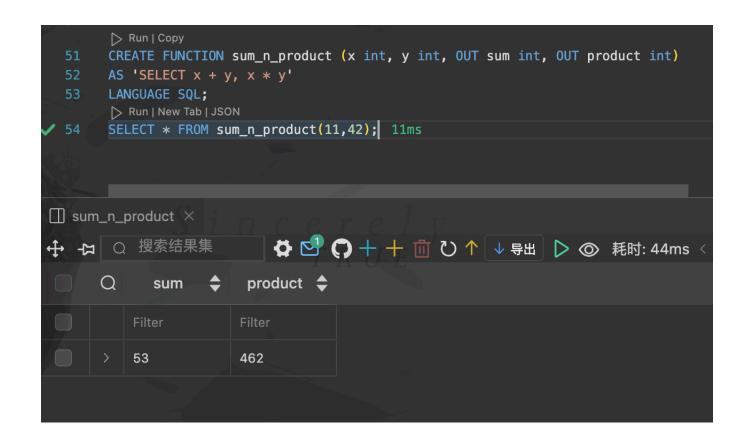answer ⬍

Filter
1

2.

```sql
   Run | Copy
19 CREATE FUNCTION add_em(x integer, y integer) RETURNS integer AS $$
20 SELECT x + y;
21 $$ LANGUAGE SQL;
   Run | New Tab | JSON
22 SELECT add_em(1, 2) AS answer;   6ms
   Run | Copy
23 CREATE FUNCTION add_em2(integer, integer) RETURNS integer AS $$
24 SELECT $1 + $2;
25 $$ LANGUAGE SQL;
   Run | New Tab | JSON
26 SELECT add_em2(1, 2) AS answer;
```

Result ✕

搜索结果集   ⚙ ✉¹ ⌗ ＋ ＋ 🗑 ↻ ↑ ↓ 导出 ▷ 👁 耗时

answer ⇅

Filter
3

```
23  CREATE FUNCTION add_em2(integer, integer) RETURNS integer AS $$
24  SELECT $1 + $2;
25  $$ LANGUAGE SQL;
    ▷ Run | New Tab | JSON
26  SELECT add_em2(1, 2) AS answer;  4ms
```

Result ✕

搜索结果集   耗时: 4m

answer ⬍

Filter
3

3.

```
29   CREATE TABLE emp_new (
30   id integer primary key ,
31   name varchar(30),
32   age integer,
33   dept_id integer,
34   salary numeric default 0.0
35   );
     ▷ Run | New Tab
36   INSERT INTO emp_new values (001, 'Zhang San',23,1,5000);
     ▷ Run | Copy
37   CREATE FUNCTION double_salary(emp_new) RETURNS numeric AS $$
38   SELECT $1.salary * 2 AS salary;
39   $$ LANGUAGE SQL;
     ▷ Run | New Tab | JSON
40   SELECT name, double_salary(emp_new.*) AS dream
41   FROM emp_new
42   WHERE emp_new.id = 001;   8ms
```

emp_new ✕

🔍 搜索结果集

name varchar(30)	dream
Filter	Filter
Zhang San	10000

4.

```
     ▷ Run | New Tab
44   drop Function add_em(int, int);
45
     ▷ Run | Copy
46   CREATE FUNCTION add_em (IN x int, IN y int, OUT sum int)
47   AS 'SELECT x + y'
48   LANGUAGE SQL;
     ▷ Run | New Tab | JSON
49   SELECT add_em(3,7);  4ms
50
     ▷ Run | Copy
51   CREATE FUNCTION sum_n_product (x int, y int, OUT sum int, OUT product int)
52   AS 'SELECT x + y, x * y'
53   LANGUAGE SQL;
     ▷ Run | New Tab | JSON
54   SELECT * FROM sum_n_product(11,42);
```

Result ✕

搜索结果集   ⚙ ✉1 ⌂ + + 🗑 ↻ ↑ ↓ 导出 ▷ 👁 耗时: 4ms < 1

add_em ⬍

	Filter
>	10

```sql
51  CREATE FUNCTION sum_n_product (x int, y int, OUT sum int, OUT product int)
52  AS 'SELECT x + y, x * y'
53  LANGUAGE SQL;
54  SELECT * FROM sum_n_product(11,42);
```

sum	product
Filter	Filter
53	462

5.

```sql
CREATE FUNCTION test_default(a int, b int DEFAULT 2, c int DEFAULT 3)
RETURNS int
LANGUAGE SQL
AS $$
SELECT $1 + $2 + $3;
$$;
SELECT test_default(10, 20, 30);  3ms
SELECT test_default(10, 20);
SELECT test_default(10);
SELECT test_default();
```

Result ✕

搜索结果集   1   🗑 ↻ ↑   ↓ 导出   ▷ 👁 耗时: 3m

test_default ⬍

Filter
> 60

```
          ▷ Run | New Tab | JSON
✔  64    SELECT test_default(10, 20);   18ms
          ▷ Run | New Tab | JSON
   65    SELECT test_default(10);
          ▷ Run | New Tab | JSON
   66    SELECT test_default();
```

▱ Result   ✕

搜索结果集

test_default ⬍

Filter
> 33

```
65  SELECT test_default(10);  7ms
       ▷ Run | New Tab | JSON
66  SELECT test_default();
```

Result ✕

搜索结果集

test_default

Filter

>	15

```
       ▷ Run | New Tab | JSON
66  SELECT test_default();  3ms  function test_default() does not exist
```

6.

```
68    create or replace function sum_func(a int, b int)
69    returns int
70    language plpgsql
71    as $function$
72    begin
73    return a + b;
74    end;
75    $function$;
        ▷ Run | New Tab | JSON
✓ 76    select sum_func(3,4);   6ms
```

▢ Result   ✕

搜索结果集

sum_func ⬍

Filter
> 7

7.

```
83   declare
84   name varchar := null;
85   begin
86   name := firstname || ' ' || secondname;
87   return name;
88   end;
89   $function$;
       ▷ Run | New Tab | JSON
✔ 90  select fullname('Zhang','San');   8ms
```

Result   ✕

🔍 搜索结果集   ⚙ ✉¹ 🐙 ➕ ➕ 🗑 ↻ ↑   ↓ 导出   ▷ 👁 耗时: 8m

🔍   fullname ⇕

Filter
> Zhang San

8.

```sql
select full_name(p.first_name, p.surname, 'E')
from people p
join credits c on p.peopleid = c.peopleid and c.credited_as = 'D'
join movies m on m.movieid = c.movieid
where m.country = 'cn';   48ms
```

Result(RO) ×

搜索结果集

耗时: 48r

full_name

Filter

full_name
Wan Laiming
Mashimo Kōichi
Qian Yunda
Yan Shanchun
Zhang Yimou
Lee Ang
Diao Yi'nan
Diao Yinan

9.

```
         ▷   Run | New Tab | JSON
✓ 156    select factorial(5);   52ms
         ▷   Run | New Tab | JSON
  157    select factorial2(5);
  158
```

Result ✕

搜索结果集

factorial

Filter

> 120

▷ Run | New Tab | JSON

✓ 157 `select factorial2(5);` 2ms
  158

□ Result ✕

搜索结果集

factorial2 ⬍

Filter

> 120

10.

```
    ▷ Run | New Tab | JSON
✓ 178  select * from character_table('I love database!');   22ms
  179
```

character_table ✕

🔍 搜索结果集   ⚙ ✉¹ ⟡ + + 🗑 ↻ ↑   ↓ 导出

		chr	ascii
	🔍	Filter	Filter
	>		32
	>	!	33
	>	I	73
	>	a	97
	>	b	98
	>	d	100
	>	e	101
	>	l	108