

Exercise 2

SQL query to create the function:

```
1 CREATE OR REPLACE FUNCTION retrieve_customers(integer, integer) RETURNS SETOF customer AS $$
2 DECLARE
3     r customer%rowtype;
4     iterator float4 := 1;
5 BEGIN
6     IF $1 <= 0 OR $1 >= 600 OR $2 <= 0 OR $2 >= 600 THEN
7         RAISE EXCEPTION 'some customers does not exist';
8     END IF;
9     FOR r IN
10         SELECT * FROM customer ORDER BY address_id
11     LOOP
12         IF iterator >= $1 AND iterator <= $2 THEN
13             RETURN NEXT r;
14         END IF;
15         iterator := iterator + 1;
16     END LOOP;
17     RETURN;
18 END;
19 $$ LANGUAGE plpgsql;
```

Test the function:

Invalid parameters:

```
1 SELECT * FROM retrieve_customers(-3,15);
```

Data Output Explain Messages Notifications

ERROR: ОШИБКА: some customers does not exist

CONTEXT: функция PL/pgSQL retrieve_customers(integer,integer), строка 7, оператор RAISE

SQL state: P0001

Valid parameters:

```
1 SELECT * FROM retrieve_customers(10,15);
```

Data Output Explain Messages Notifications

	customer_id integer	store_id smallint	first_name character varying (45)	last_name character varying (45)	email character varying (50)	address_id smallint	active boolean	create_date date	last_update timestamp without time zone	active integer
1	10	1	Dorothy	Taylor	dorothy.taylor@sakilacustomer.org	14	true	2006-02-14	2013-05-26 14:49:45.738	1
2	11	2	Lisa	Anderson	lisa.anderson@sakilacustomer.org	15	true	2006-02-14	2013-05-26 14:49:45.738	1
3	12	1	Nancy	Thomas	nancy.thomas@sakilacustomer.org	16	true	2006-02-14	2013-05-26 14:49:45.738	1
4	13	2	Karen	Jackson	karen.jackson@sakilacustomer.org	17	true	2006-02-14	2013-05-26 14:49:45.738	1
5	14	2	Betty	White	betty.white@sakilacustomer.org	18	true	2006-02-14	2013-05-26 14:49:45.738	1
6	15	1	Helen	Harris	helen.harris@sakilacustomer.org	19	true	2006-02-14	2013-05-26 14:49:45.738	1