**1. Функции и процедуры для выполнения CRUD-операций (общая база данных).**

4.1 create or replace procedure pr\_add\_ сustomers(new\_id integer,name varchar(50))

language plpgsql as $$

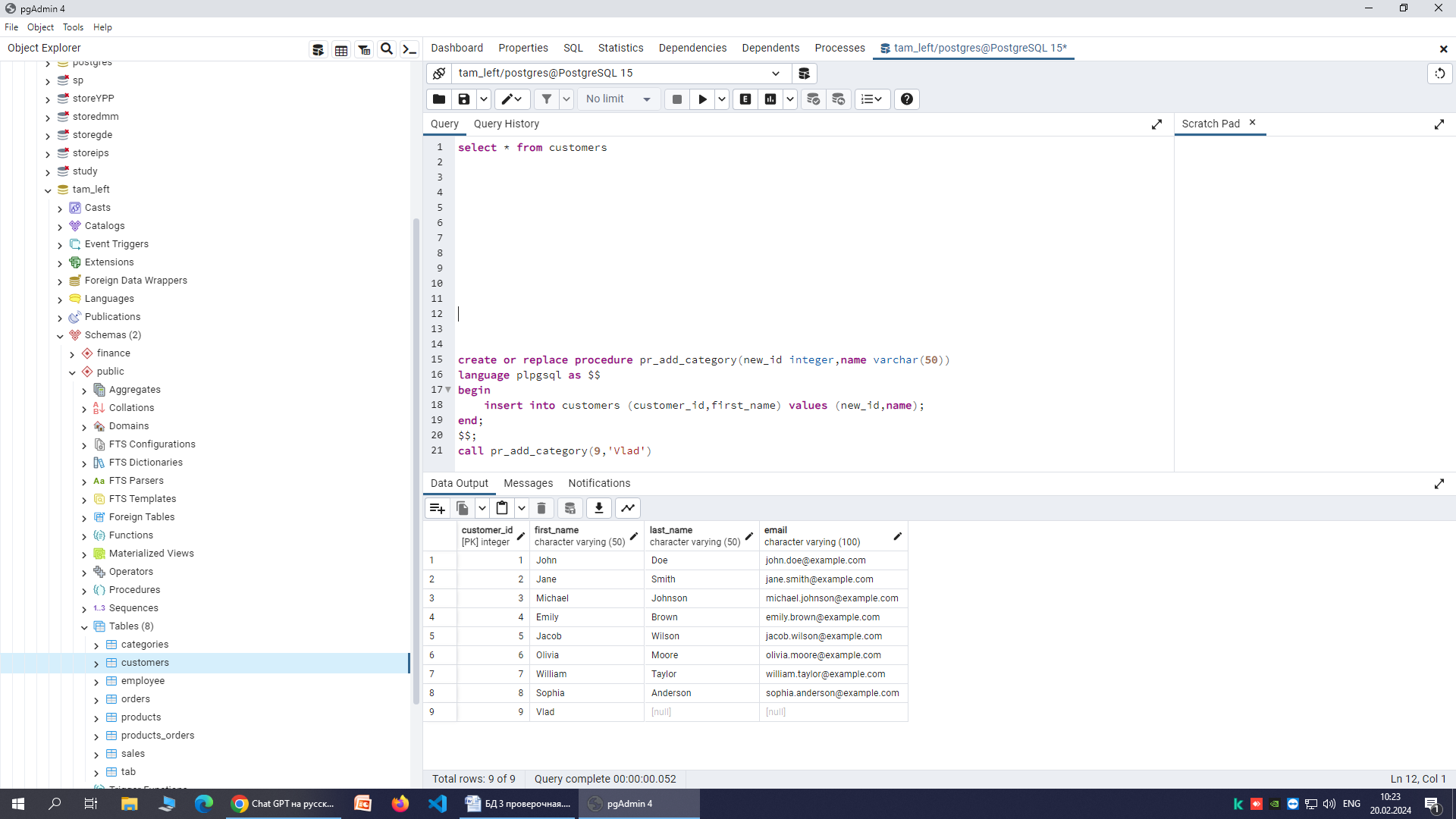
begin

insert into сustomers (customer\_id,first\_name) values (new\_id,name);

end;

$$;

call pr\_add\_category(9,'Vlad')



create or replace procedure pr\_update\_сustomers(cur\_id integer, name\_new varchar(50))

language plpgsql as $$

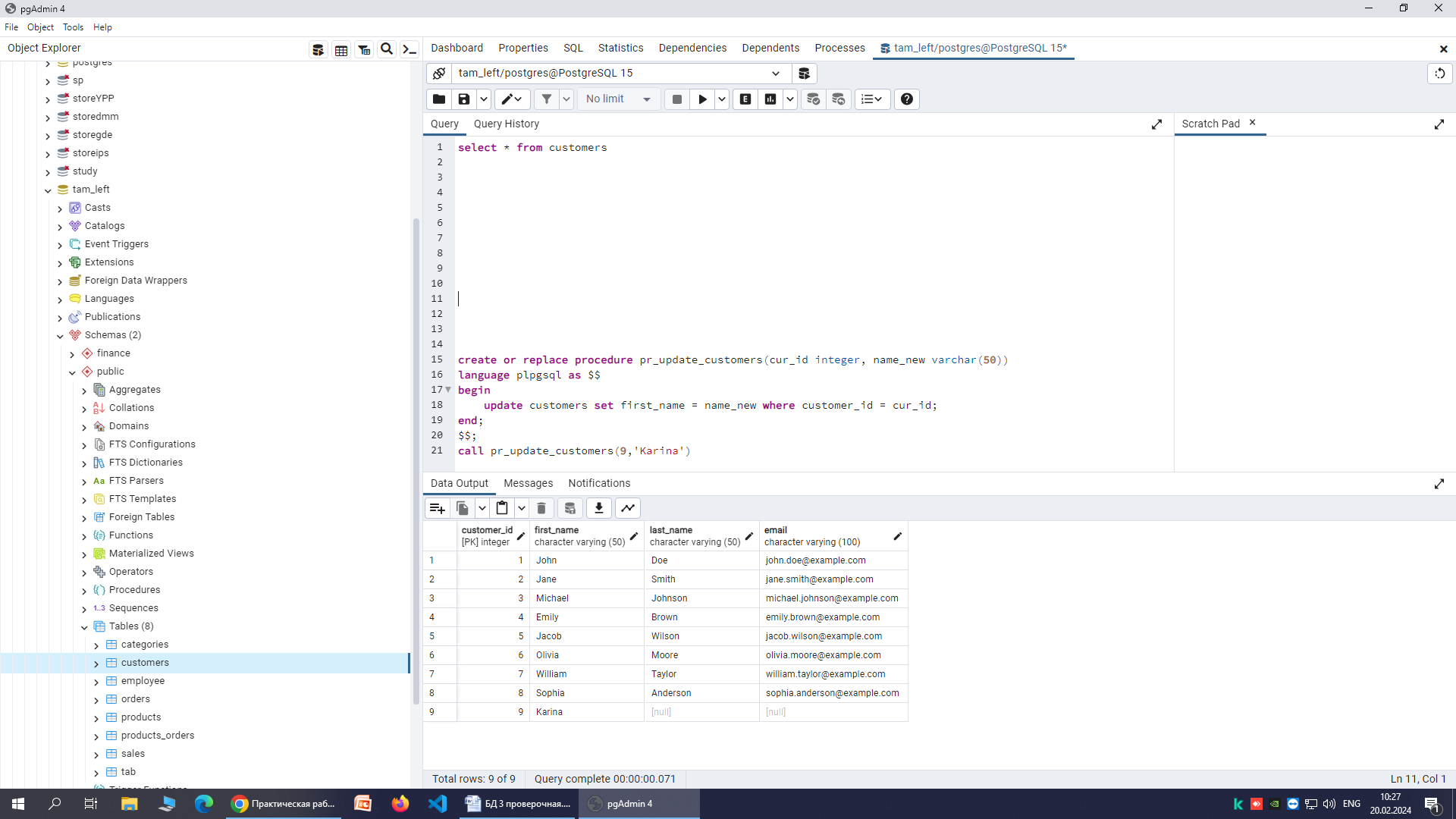
begin

update сustomers set first\_name = name\_new where customer\_id = cur\_id;

end;

$$;

call pr\_update\_сustomers(9,'Karina')



create or replace procedure pr\_delete\_сustomers(cur\_id integer)

language plpgsql as $$

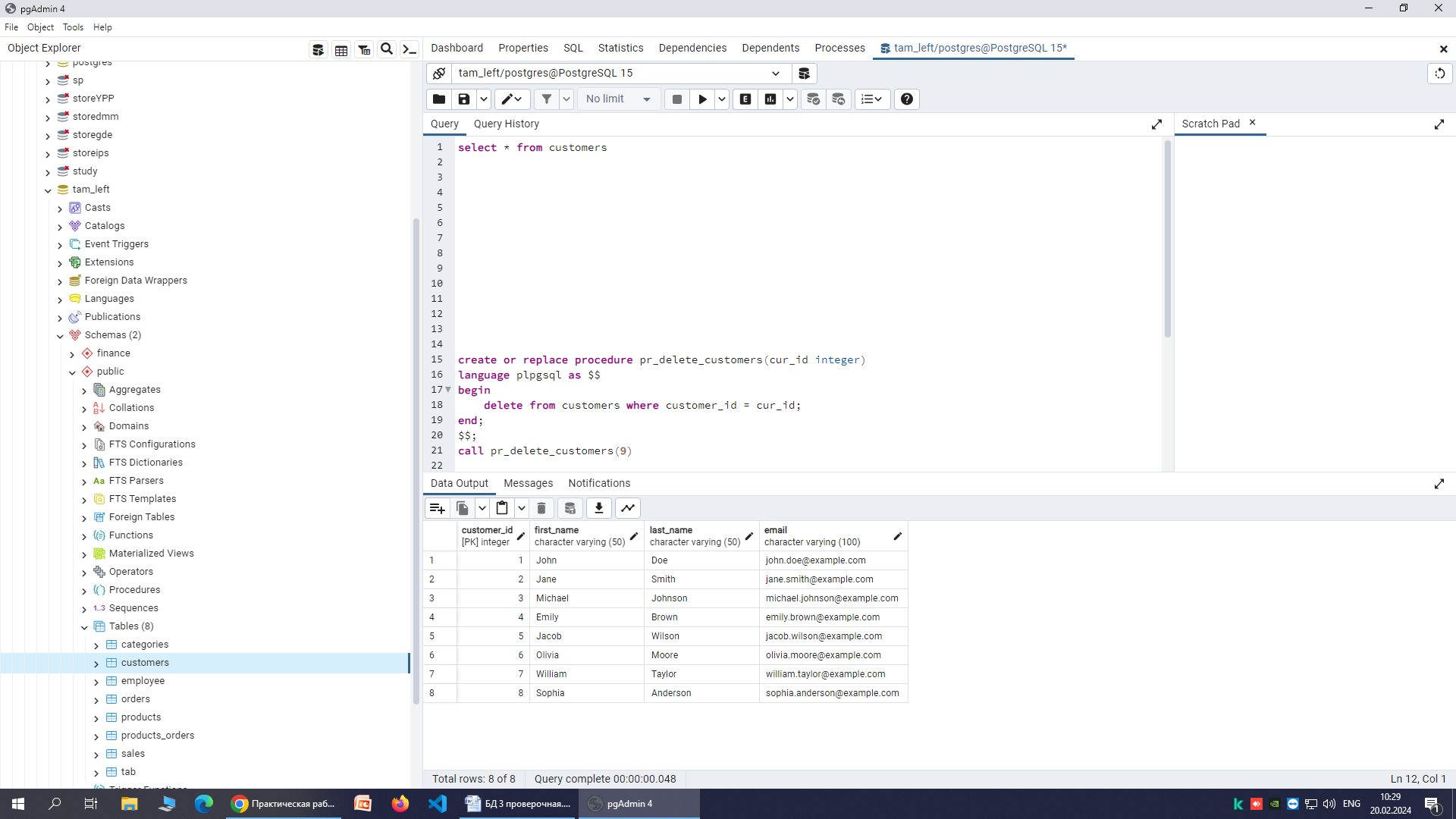
begin

delete from сustomers where customer\_id = cur\_id;

end;

$$;

call pr\_delete\_сustomers(9)



4.2 create or replace function f\_add\_products(id integer,name varchar(50))

returns integer as $$

begin

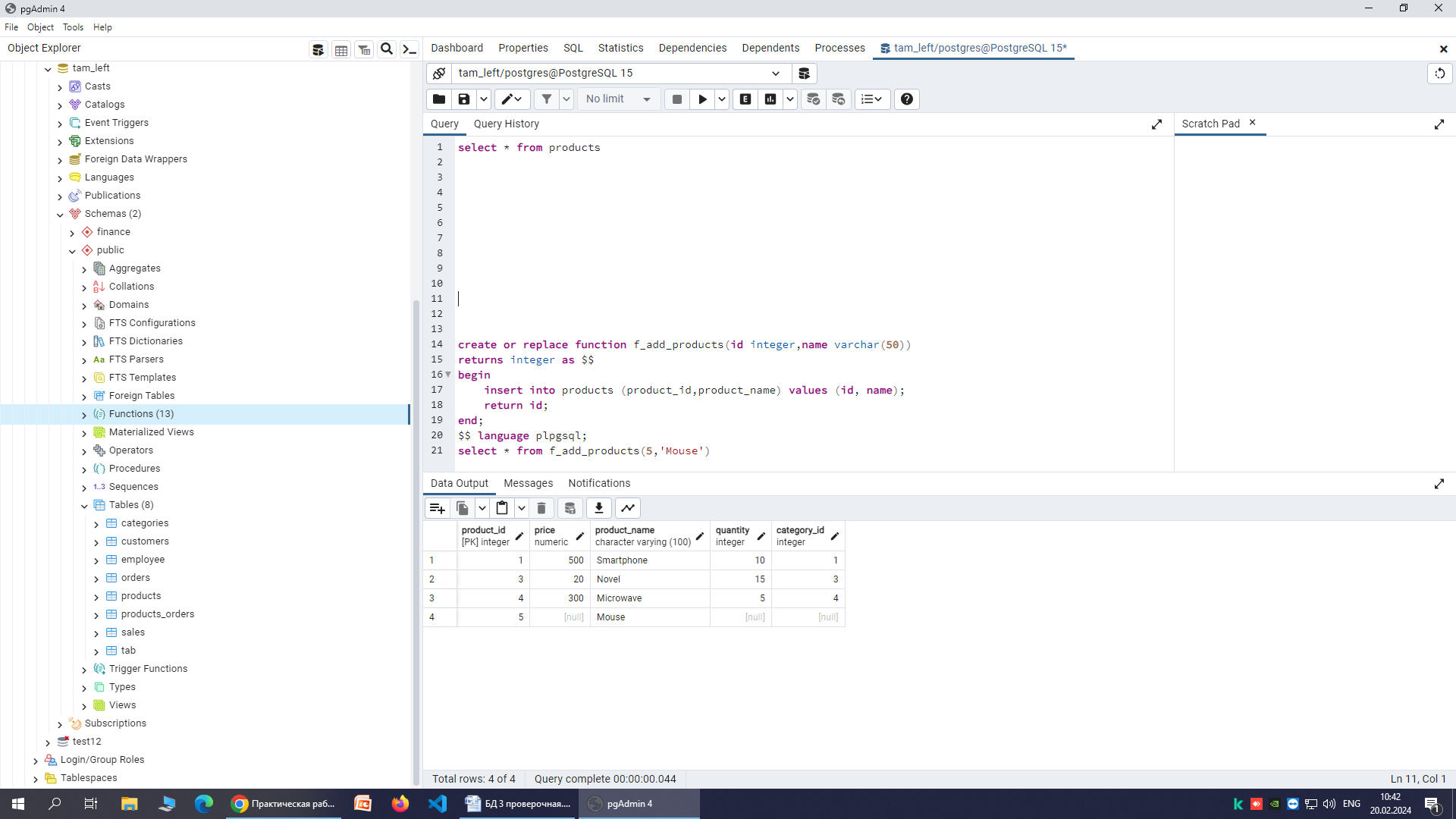
insert into products (product\_id,product\_name) values (id, name);

return id;

end;

$$ language plpgsql;

select \* from f\_add\_products(5,'Mouse')



create or replace function f\_update\_products(cur\_id integer, name\_new varchar(50))

returns integer as $$

begin

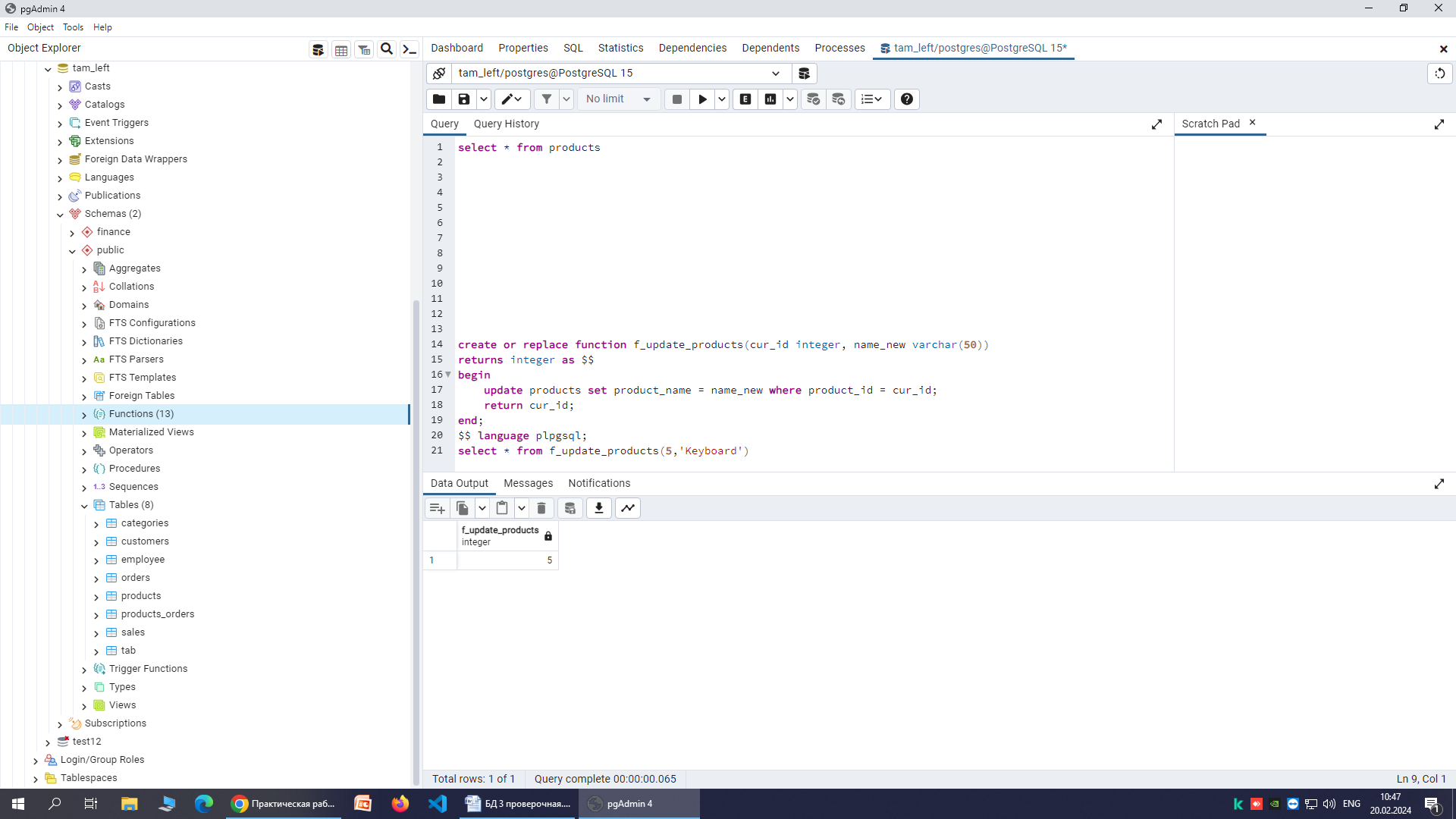
update products set product\_name = name\_new where product\_id = cur\_id;

return cur\_id;

end;

$$ language plpgsql;

select \* from f\_update\_products(5,'Keyboard')



create or replace function f\_delete\_products(cur\_id integer)

returns integer as $$

begin

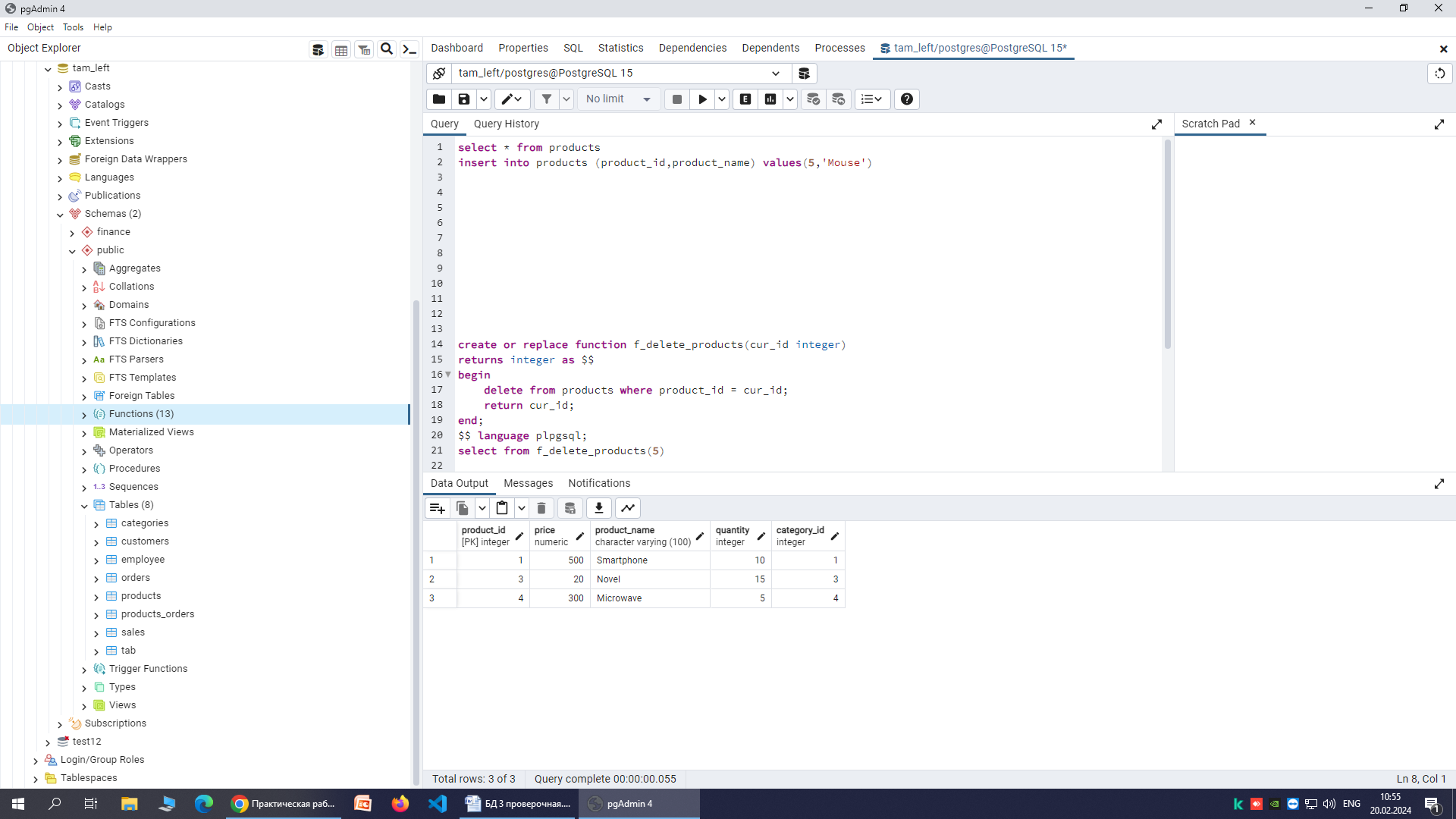
delete from products where product\_id = cur\_id;

return cur\_id;

end;

$$ language plpgsql;

select from f\_delete\_products(5)



create or replace function f\_select\_category(cur\_id integer)

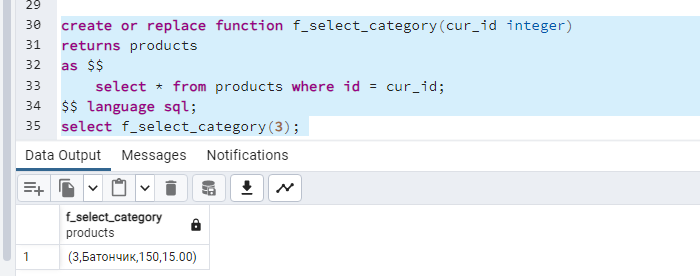
returns products

as $$

select \* from products where id = cur\_id;

$$ language sql;

select f\_select\_category(3);



CREATE TABLE сustomers (

customer\_ID INT PRIMARY KEY,

first\_Name VARCHAR(50),

last\_Name VARCHAR(50),

email VARCHAR(100)

)

INSERT INTO сustomers VALUES

(1, 'John', 'Doe', 'john.doe@example.com'),

(2, 'Jane', 'Smith', 'jane.smith@example.com'),

(3, 'Michael', 'Johnson', 'michael.johnson@example.com'),

(4, 'Emily', 'Brown', 'emily.brown@example.com'),

(5, 'Jacob', 'Wilson', 'jacob.wilson@example.com'),

(6, 'Olivia', 'Moore', 'olivia.moore@example.com'),

(7, 'William', 'Taylor', 'william.taylor@example.com'),

(8, 'Sophia', 'Anderson', 'sophia.anderson@example.com');