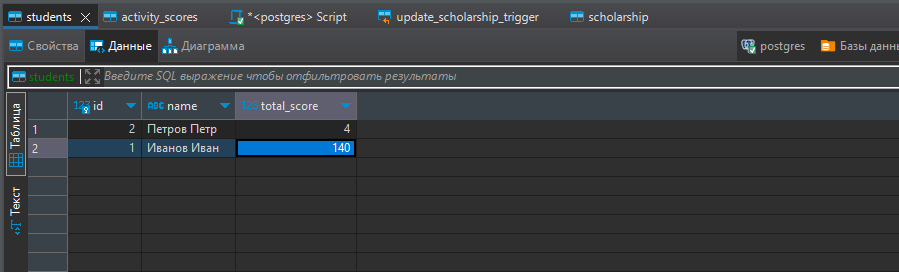
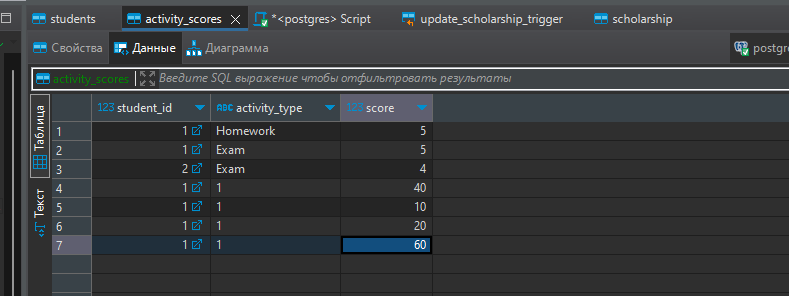
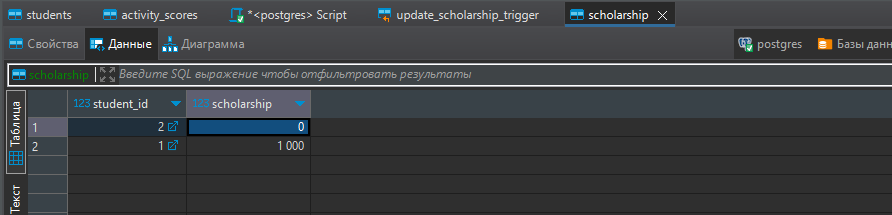
1 Задание







Функция

**create** **or** **replace** **FUNCTION** calculate\_scholarship()

**RETURNS** **TRIGGER** **AS**

**$BODY$**

**declare**

cur record;

cur1 record;

**begin**

**for** cur **in** (**select** student\_id, **sum**(score) **as** score **from** activity\_scores **group** **by** student\_id) **loop**

**UPDATE** students **set** total\_score = cur.score **where** id=cur.student\_id;

**end** **loop**;

**for** cur1 **in** (**select**

s.id **as** id,

**case** **when** total\_score >=90 **then** 1000

**when** total\_score>=80 **and** total\_score <90 **then** 500

**else** 0

**end** **as** scholarship

**from** students s) **loop**

**INSERT** **INTO** scholarship **VALUES**

(cur1.id, cur1.scholarship)

**ON** **CONFLICT** (student\_id) **DO** **UPDATE** **SET** scholarship = EXCLUDED.scholarship;

**end** **loop**;

**return** **null**;

**end**;

**$BODY$**

**LANGUAGE** plpgsql;

Триггер

**create** **trigger** update\_scholarship\_trigger **after**

**insert**

**or**

**update**

**on**

public.activity\_scores **for** **each** **row** **execute** **function** calculate\_scholarship()

Задание 2

Функция 1

**create** **or** **replace** **FUNCTION** update\_total\_score(stud\_id **INTEGER**)

**RETURNS** **void** **AS**

**$BODY$**

**declare**

cur record;

**begin**

**for** cur **in** (**select** s.student\_id, **sum**(score) **as** score **from** activity\_scores s **where** s.student\_id = stud\_id **group** **by** s.student\_id ) **loop**

**UPDATE** students **set** total\_score = cur.score **where** id=cur.student\_id;

**end** **loop**;

**end**;

**$BODY$**

**LANGUAGE** plpgsql;

Функция 2

**create** **or** **replace** **FUNCTION** update\_total\_score\_trigger()

**RETURNS** **trigger** **AS**

**$BODY$**

**begin**

**perform** update\_total\_score(**new**.student\_id) ;

**return** **null**;

**end**;

**$BODY$**

**LANGUAGE** plpgsql;

Триггер:

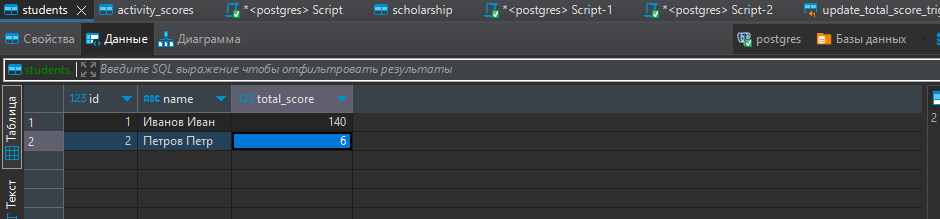
**create** **trigger** update\_total\_score\_trigger **after**

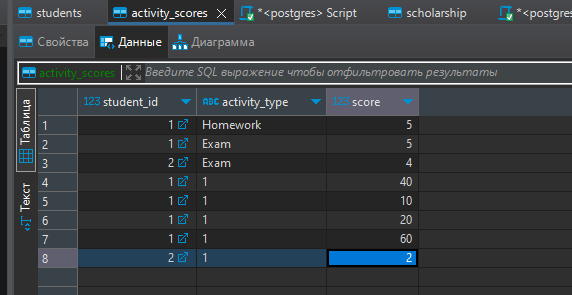
**insert**

**on**

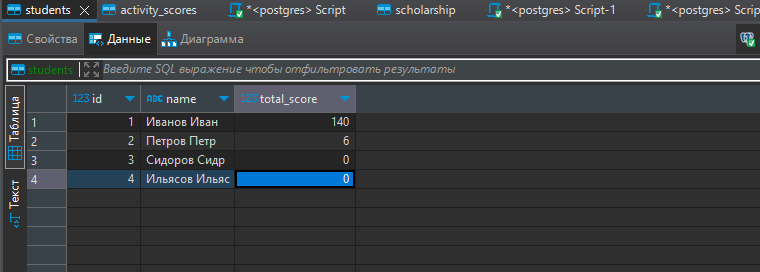
public.activity\_scores **for** **each** **row** **execute** **function** update\_total\_score\_trigger()

Было:

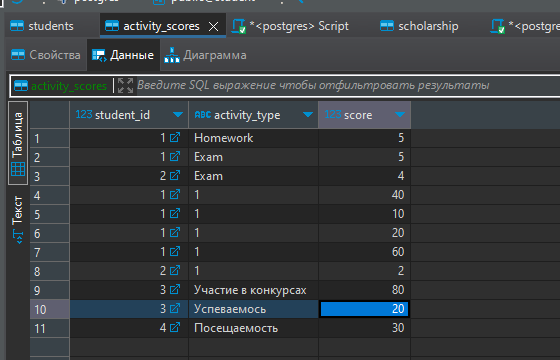




Добавляем студентов:



Добавляем данные в activity\_scores:



Проверяем результат:

