**Задача 1.**

**1.1 создаем таблицы в DBEAUER при помощи sql-скрипта**

**CREATE** **TABLE** students(

id BIGSERIAL **PRIMARY** **KEY**,

**name** **TEXT**,

total\_score **INTEGER**,

scholarship **INTEGER**

);

**CREATE** **TABLE** activity\_scores(

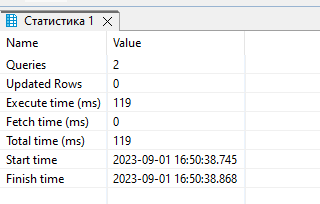
student\_id **INTEGER**,

activity\_type **TEXT**,

score **INTEGER**,

**FOREIGN** **KEY** (student\_id) **REFERENCES** students (id)

);



**1.2 создаем функцию update\_total\_score() и триггер update\_total\_score\_trigger**

**CREATE** **OR** **REPLACE** **FUNCTION** update\_total\_score()

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

**$$**

**BEGIN**

**UPDATE** students **SET** total\_score = (**SELECT** **sum**(score) **FROM** activity\_scores **WHERE** student\_id = **NEW**.student\_id) **WHERE** id = **NEW**.student\_id;

**RETURN** **NULL**;

**END**;

**$$**

**LANGUAGE** 'plpgsql';

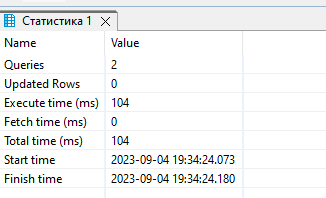
**CREATE** **OR** **REPLACE** **TRIGGER** update\_total\_score\_trigger

**AFTER** **UPDATE** **OR** **INSERT** **OR** **DELETE**

**ON** "activity\_scores"

**FOR** **EACH** **ROW**

**EXECUTE** **FUNCTION** update\_total\_score();

****

**Задача 2.**

**2. Создаем функцию calculate\_scholarship() и триггер update\_scholarship\_trigger**

**CREATE** **OR** **REPLACE** **FUNCTION** calculate\_scholarship()

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

**$$**

**BEGIN**

**CASE** **WHEN** **NEW**.total\_score >= 90 **THEN** **UPDATE** students **SET** scholarship = 1000 **WHERE** id = **NEW**.id;

**WHEN** **NEW**.total\_score < 90 **AND** **NEW**.total\_score >= 80 **THEN** **UPDATE** students **SET** scholarship = 500 **WHERE** id = **NEW**.id;

**ELSE** **UPDATE** students **SET** scholarship = 0 **WHERE** id = **NEW**.id;

**END** **CASE**;

**RETURN** **NEW**;

**END**;

**$$**

**LANGUAGE** 'plpgsql';

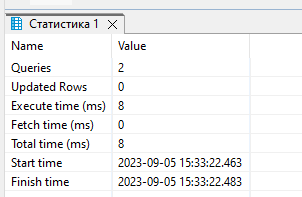
**create** **or** **replace** **TRIGGER** update\_scholarship\_trigger

**AFTER** **UPDATE** **OF** total\_score **OR** **INSERT** **OR** **DELETE**

**ON** students

**FOR** **EACH** **ROW**

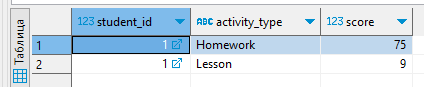
**EXECUTE** **FUNCTION** calculate\_scholarship();

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**3. Проверяем, что всё работает**

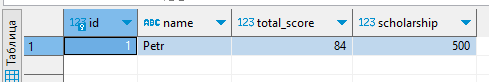
**SELECT** \*

**FROM** activity\_scores

****

**SELECT** \*

**FROM** students

****