

Задание 0.

```
CREATE TABLE students (  
  id SERIAL PRIMARY KEY,  
  name TEXT NOT NULL,  
  total_score INTEGER DEFAULT 0,  
  scholarship INTEGER DEFAULT 0  
);
```

Query

Query History

1

2

3

4

5

6

7










8

```
CREATE TABLE students (  
  id SERIAL PRIMARY KEY,  
  name TEXT NOT NULL,  
  total_score INTEGER DEFAULT 0,  
  scholarship INTEGER DEFAULT 0  
);  
  
select * from students
```

Data Output

Messages

Notifications



SQL

id	name	total_score	scholarship
[PK] integer	text	integer	integer

```
CREATE TABLE activity_scores (  
  student_id INTEGER NOT NULL,  
  activity_type TEXT NOT NULL,  
  score INTEGER NOT NULL,  
  FOREIGN KEY (student_id)  
  REFERENCES students(id)  
  ON DELETE CASCADE  
);
```

Query Query History

1

2

3

4

5

6

7

8

9

10

▼

```
CREATE TABLE activity_scores (  
  student_id INTEGER NOT NULL,  
  activity_type TEXT NOT NULL,  
  score INTEGER NOT NULL,  
  FOREIGN KEY (student_id)  
  REFERENCES students(id)  
  ON DELETE CASCADE  
);  
  
select * from activity_scores
```

Data Output Messages Notifications

≡+

▼

▼

SQL

student_id	activity_type	score
integer	text	integer

Задание 1.

1)  
INSERT INTO students (name)  
VALUES  
(  
'Андрей Аршавин'),  
(  
'Александр Кержаков'),  
(  
'Игорь Акинфеев');

Query

Query History

1

2

3

4

5

6

7

INSERT INTO students (name)

VALUES

('Андрей Аршавин'),

('Александр Кержаков'),

('Игорь Акинфеев');

select \* from students

Data Output

Messages

Notifications

SQL

	id [PK] integer	name text	total_score integer	scholarship integer
1	1	Андрей Аршавин	0	0
2	2	Александр Кержаков	0	0
3	3	Игорь Акинфеев	0	0

```

2) INSERT INTO activity_scores (student_id, activity_type, score) VALUES
(1, 'Домашняя работа', 10),
(1, 'Экзамен', 25),
(1, 'Курсовая', 30),

(2, 'Экзамен', 8),
(2, 'Диплом', 28),

(3, 'Домашняя работа', 9),
(3, 'Экзамен', 22);
  
```

Query Query History

```
1 INSERT INTO activity_scores (student_id, activity_type, score) VALUES
2 (1, 'Домашняя работа', 10),
3 (1, 'Экзамен', 25),
4 (1, 'Курсовая', 30),
5
6 (2, 'Экзамен', 8),
7 (2, 'Диплом', 28),
8
9 (3, 'Домашняя работа', 9),
10 (3, 'Экзамен', 22);
11
12 select * from activity_scores
```

Data Output Messages Notifications

	student_id integer	activity_type text	score integer
1	1	Домашняя работа	10
2	1	Экзамен	25
3	1	Курсовая	30
4	2	Экзамен	8
5	2	Диплом	28
6	3	Домашняя работа	9
7	3	Экзамен	22

3)

UPDATE students

SET total\_score = sub.total

FROM (

SELECT student\_id, SUM(score) AS total

FROM activity\_scores

GROUP BY student\_id

) AS sub

WHERE students.id = sub.student\_id;

Query

Query History

1

2

3

4

5

6

7

8

9

10

UPDATE students

SET total\_score = sub.total

FROM (

SELECT student\_id, SUM(score) AS total

FROM activity\_scores

GROUP BY student\_id

) AS sub

WHERE students.id = sub.student\_id;

select \* from students

Data Output

Messages

Notifications

≡+

📄

▼

📋

▼

🗑️

📦

⬇️

📈

SQL

	id [PK] integer	name text	total_score integer	scholarship integer
1	1	Андрей Аршавин	65	0
2	2	Александр Кержаков	36	0
3	3	Игорь Акинфеев	31	0

Задание 2.

```

UPDATE students
SET scholarship =
CASE
WHEN total_score >= 90 THEN 1000
WHEN total_score BETWEEN 80 AND 89 THEN 500
ELSE 0
END;

```

Query

Query History

1

2

3

4

5

6

7

8

9

10

UPDATE students

SET scholarship =

CASE

WHEN total\_score >= 90 THEN 1000

WHEN total\_score BETWEEN 80 AND 89 THEN 500

ELSE 0

END;

select \* from students

Data Output

Messages

Notifications

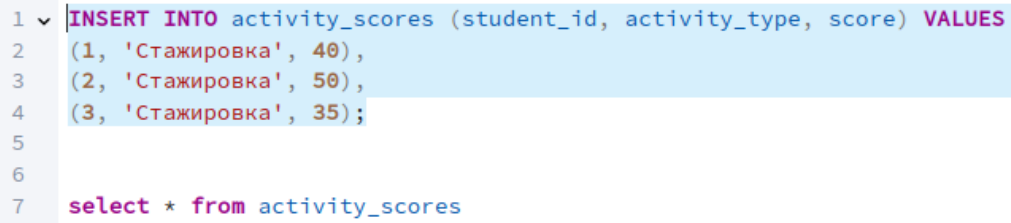
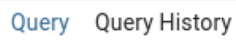
SQL

	id [PK] integer	name text	total_score integer	scholarship integer
1	1	Андрей Аршавин	65	0
2	2	Александр Кержаков	36	0
3	3	Игорь Акинфеев	31	0

### Задание 3.

Запрос на добавление:

```
INSERT INTO activity_scores (student_id, activity_type, score) VALUES
(1, 'Стажировка', 40),
(2, 'Стажировка', 50),
(3, 'Стажировка', 35);
```



[Data Output](#)   [Messages](#)   [Notifications](#)



	student_id integer 🔒	activity_type text 🔒	score integer 🔒
1	1	Домашняя работа	10
2	1	Экзамен	25
3	1	Курсовая	30
4	2	Экзамен	8
5	2	Диплом	28
6	3	Домашняя работа	9
7	3	Экзамен	22
8	1	Стажировка	40
9	2	Стажировка	50
10	3	Стажировка	35

Результат:

Query

Query History

```
1 UPDATE students
2   SET total_score = sub.total
3   FROM (
4     SELECT student_id, SUM(score) AS total
5     FROM activity_scores
6     GROUP BY student_id
7   ) AS sub
8   WHERE students.id = sub.student_id;
9
10 UPDATE students
11    SET scholarship =
12    CASE
13      WHEN total_score >= 90 THEN 1000
14      WHEN total_score BETWEEN 80 AND 89 THEN 500
15      ELSE 0
16    END;
17
18
19 select * from students
```

Data Output

Messages

Notifications

≡+

▼

▼

SQL

	Id [PK] integer	name text	total_score integer	scholarship integer
1	1	Андрей Аршавин	105	1000
2	2	Александр Кержаков	86	500
3	3	Игорь Акинфеев	66	0