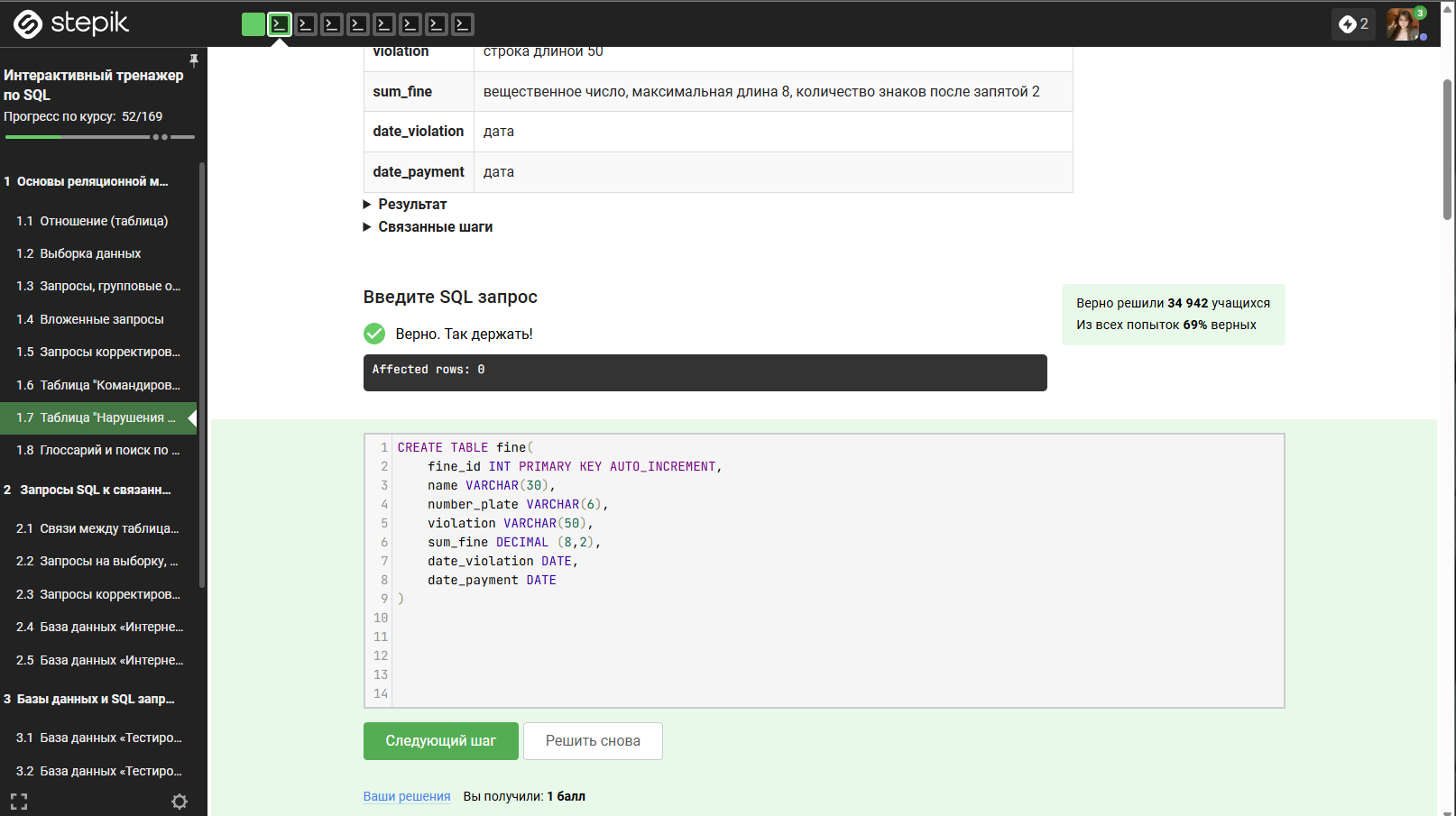
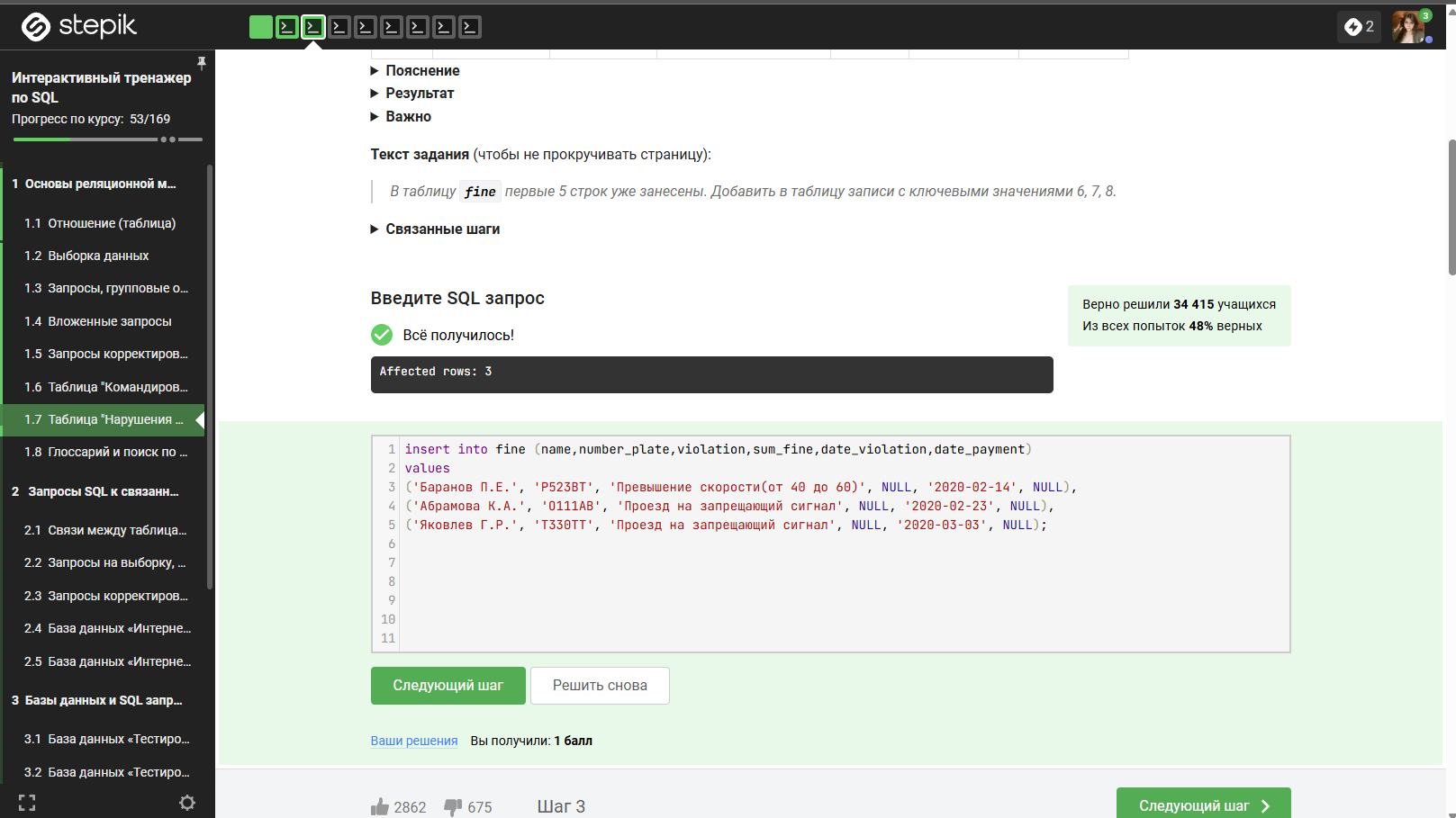
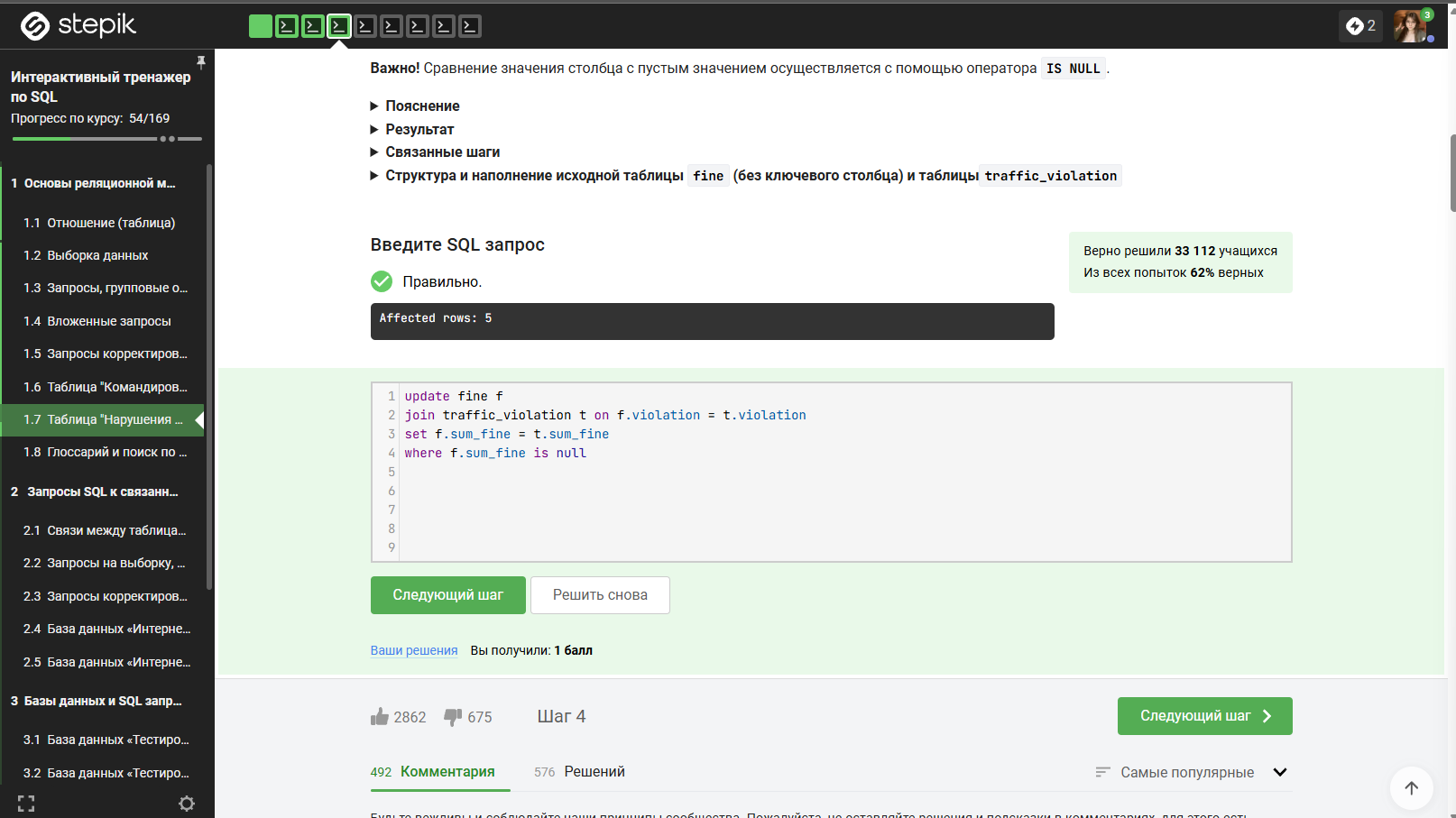
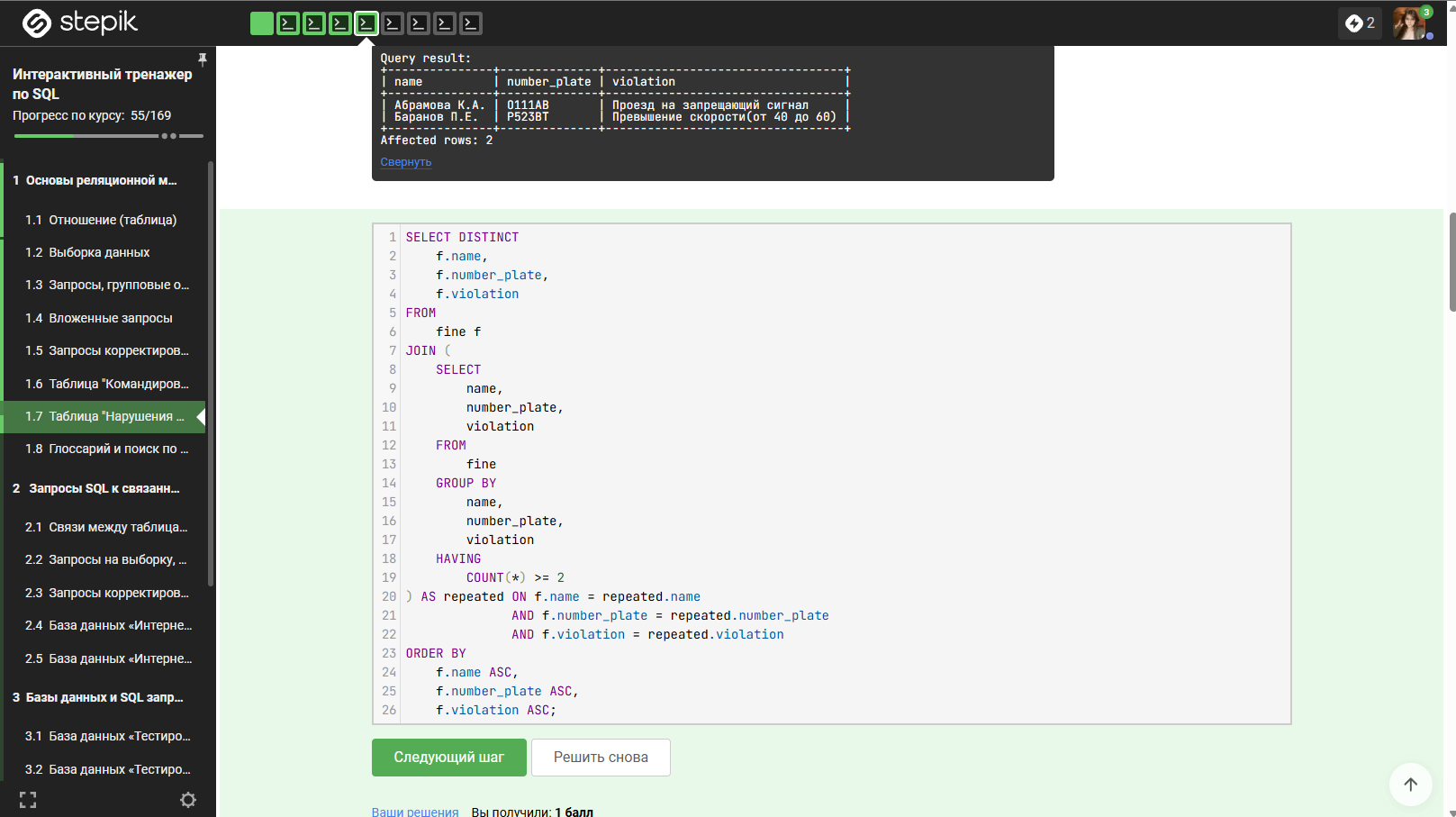
1.7

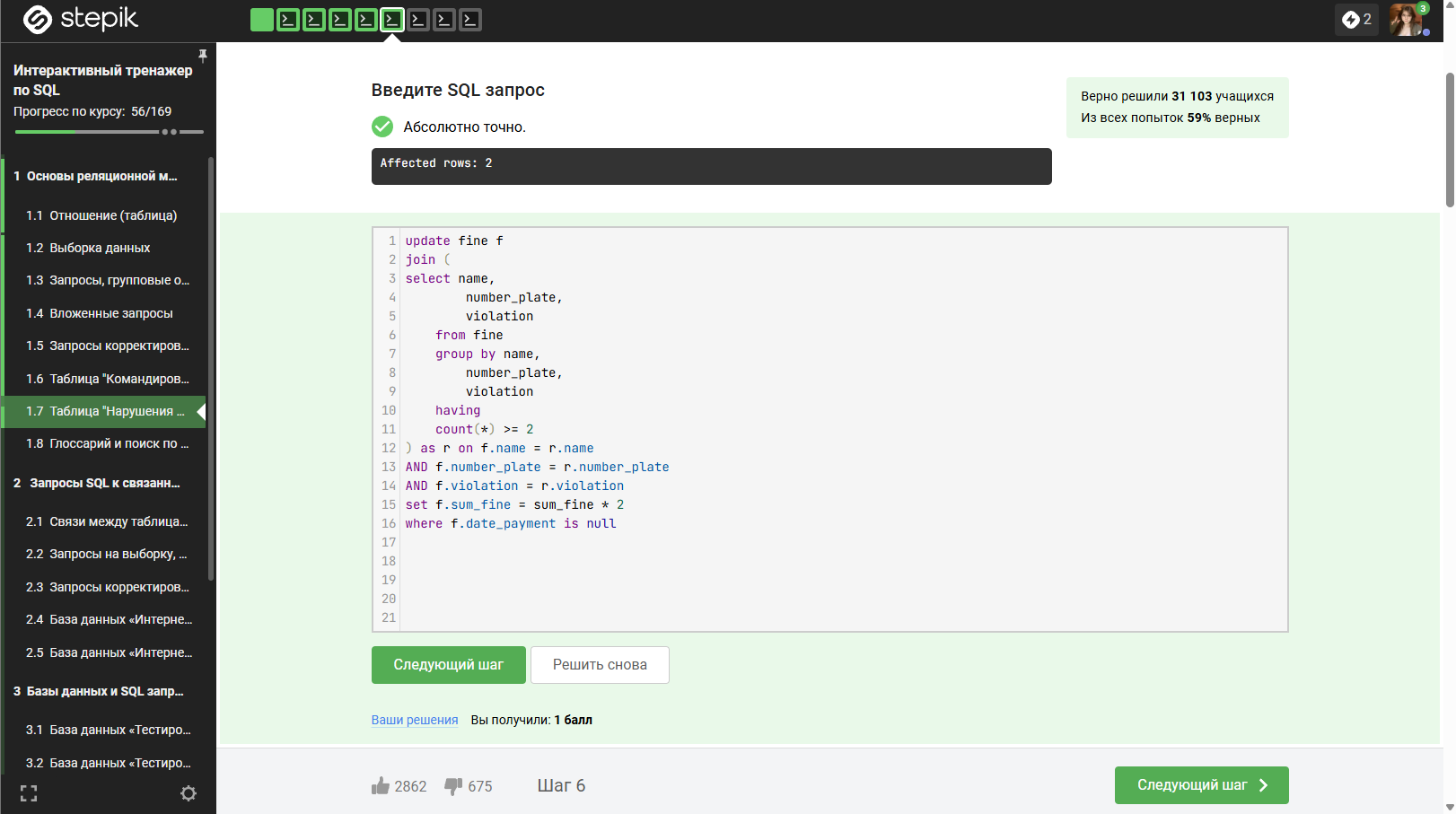
1)  
CREATE TABLE fine(  
fine\_id INT PRIMARY KEY AUTO\_INCREMENT,  
name VARCHAR(30),  
number\_plate VARCHAR(6),  
violation VARCHAR(50),  
sum\_fine DECIMAL (8,2),  
date\_violation DATE,  
date\_payment DATE  
)  


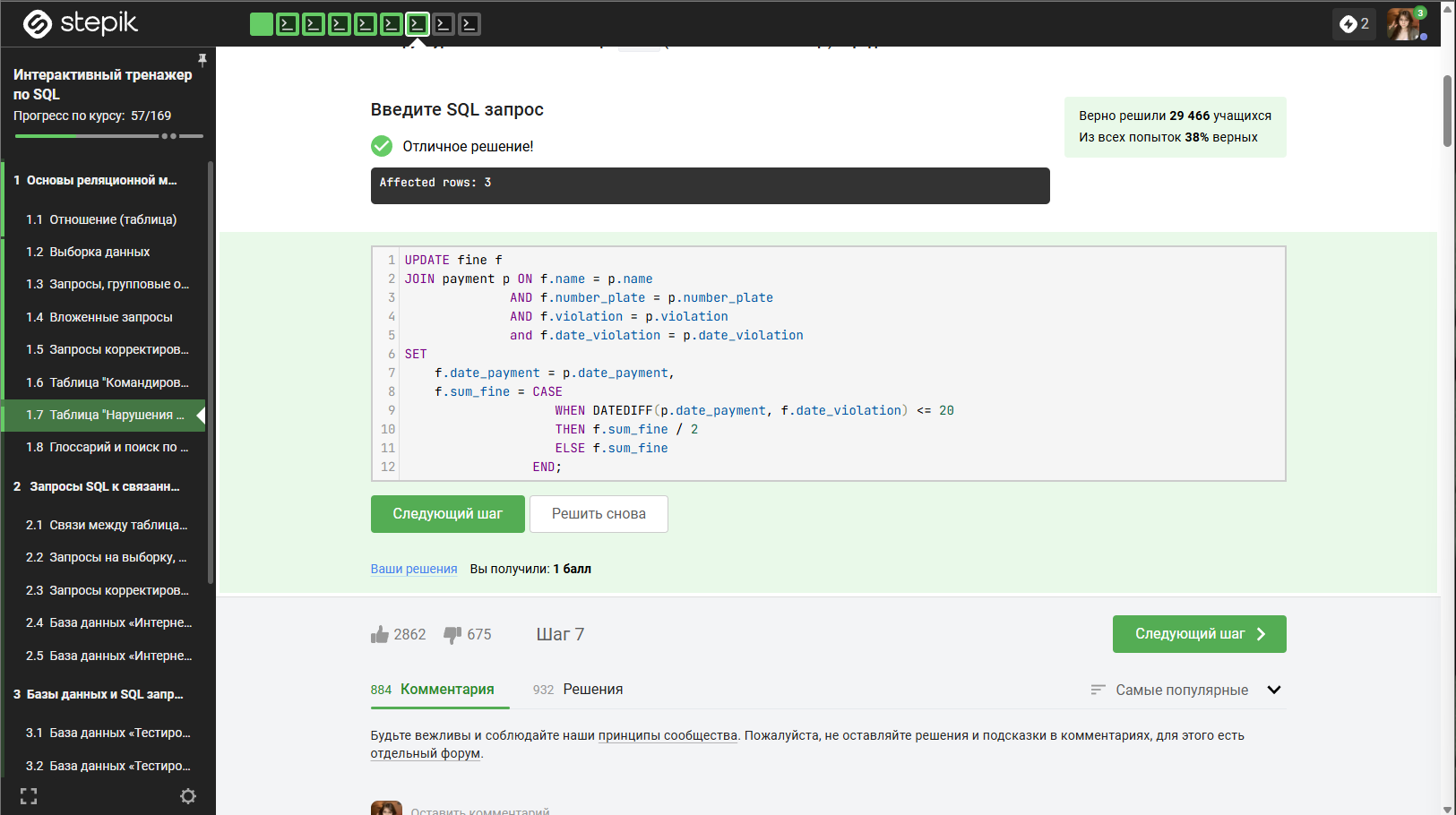
2)  
insert into fine (name,number\_plate,violation,sum\_fine,date\_violation,date\_payment)  
values  
('Баранов П.Е.', 'Р523ВТ', 'Превышение скорости(от 40 до 60)', NULL, '2020-02-14', NULL),  
('Абрамова К.А.', 'О111АВ', 'Проезд на запрещающий сигнал', NULL, '2020-02-23', NULL),  
('Яковлев Г.Р.', 'Т330ТТ', 'Проезд на запрещающий сигнал', NULL, '2020-03-03', NULL);  


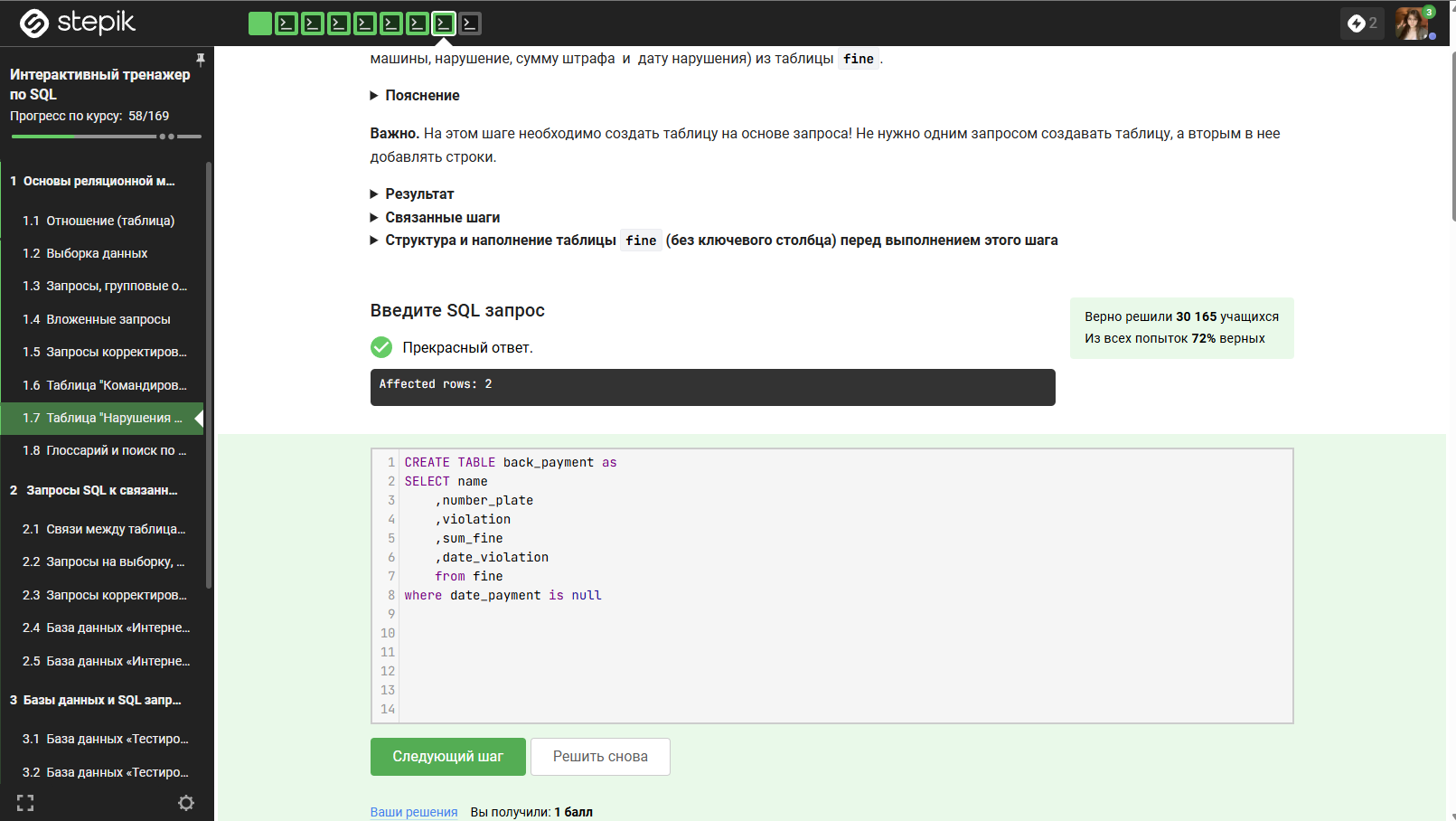
3)  
update fine f  
join traffic\_violation t on f.violation = t.violation  
set f.sum\_fine = t.sum\_fine  
where f.sum\_fine is null  


4)  
SELECT DISTINCT  
f.name,  
f.number\_plate,  
f.violation

FROM   
fine f  
JOIN (  
SELECT   
name,   
number\_plate,   
violation  
FROM   
fine  
GROUP BY   
name,   
number\_plate,   
violation  
HAVING   
COUNT(\*) >= 2  
) AS repeated ON f.name = repeated.name   
AND f.number\_plate = repeated.number\_plate   
AND f.violation = repeated.violation  
ORDER BY   
f.name ASC,  
f.number\_plate ASC,  
f.violation ASC;  


5)  
update fine f  
join (  
select name,   
number\_plate,   
violation  
from fine  
group by name,   
number\_plate,   
violation  
having   
count(\*) >= 2  
) as r on f.name = r.name  
AND f.number\_plate = r.number\_plate   
AND f.violation = r.violation  
set f.sum\_fine = sum\_fine \* 2  
where f.date\_payment is null  


6)  
UPDATE fine f  
JOIN payment p ON f.name = p.name  
AND f.number\_plate = p.number\_plate  
AND f.violation = p.violation  
and f.date\_violation = p.date\_violation  
SET   
f.date\_payment = p.date\_payment,  
f.sum\_fine = CASE   
WHEN DATEDIFF(p.date\_payment, f.date\_violation) <= 20   
THEN f.sum\_fine / 2   
ELSE f.sum\_fine   
END;  


7)  
CREATE TABLE back\_payment as  
SELECT name  
,number\_plate  
,violation  
,sum\_fine  
,date\_violation  
from fine  
where date\_payment is null  


8)  
delete from fine  
where date\_violation < '2020-02-01'  
