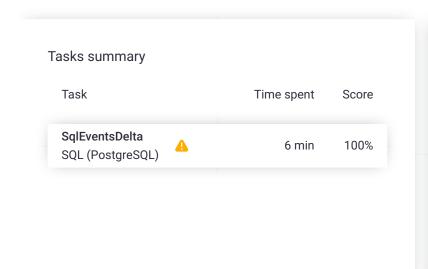
## Codility\_

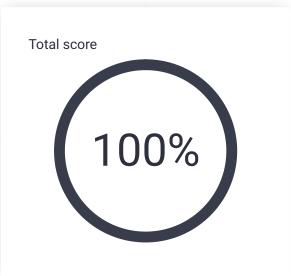
### CodeCheck Report: training5DWR3C-YJA

Test Name:

Check out Codility training tasks

Summary Timeline





#### **Tasks Details**

# 1. SqlEventsDelta

each event type.

Compute the
difference Task Score
between the latest
and the second
latest value for

Correctness

Performance

Not assessed

Task description

Given a table events with the following structure:

create table events (
 event\_type integer not null,
 value integer not null,
 time timestamp not null,
 unique(event\_type, time)
);

write an SQL query that, for each event\_type that has been registered more than once, returns the difference between the latest (i.e. the most recent in terms of time) and the second latest value. The table should be ordered by event\_type (in ascending order).

Solution

100%

Programming language used: SQL (PostgreSQL)

Total time used: 6 minutes

Effective time used: 6 minutes

Notes: not defined yet

Task timeline

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For example, given the following data:

event_type	e   value	time
	++	
2	5	2015-05-09
12:42:00		
4	-42	2015-05-09
13:19:57		
2	2	2015-05-09
14:48:30		
2	7	2015-05-09
12:54:39		
3	16	2015-05-09
13:19:57		
3	20	2015-05-09
15:01:09		

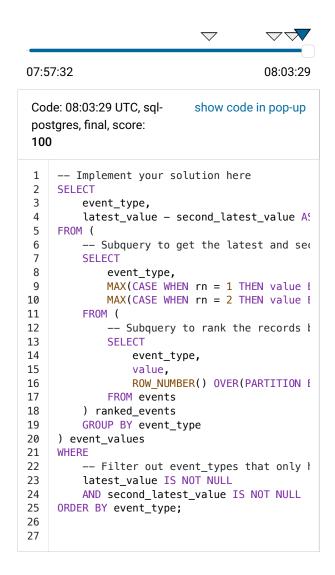
your query should return the following rowset:

event_type	value
	+
2	-5
3	4

For the event\_type 2, the latest value is 2 and the second latest value is 7, so the difference between them is -5.

The names of the columns in the rowset don't matter, but their order does.

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### Analysis summary

The solution obtained perfect score.

### Analysis

expand all	Example te	sts	
example example test		<b>∠</b> OK	
expand all	Correctness	tests	
simple_one_type One type of events		<b>∠</b> OK	
<ul><li>extreme_unique_types</li><li>Unique types of events</li></ul>		<b>∠</b> OK	
<ul><li>extreme_empty_data</li><li>Empty data set</li></ul>		<b>∠</b> OK	
<ul><li>simple</li><li>Event types repeating various</li><li>number of times</li></ul>		<b>✓</b> OK	
cyclic_polling N=16, four event of events of diffe	types, four series	<b>✓</b> OK	

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bracketed_polling N=12, two rounds of polling with reversed order	<b>∨</b> 0K
<ul><li>single_event_type</li><li>N=12, one type of events</li></ul>	<b>✓</b> OK
► double_events N=12; two event types mixed	<b>✓</b> OK
random1 random sequence; N=100, 100 event types	<b>√</b> OK
random2 random sequence; N=100, 12 event types	<b>√</b> OK
➤ random3 random sequence; N=100, 4 event types	<b>√</b> OK

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