Codility_

10/27/23, 9:39 PM

CodeCheck Report: trainingJNR254-G9B

Test Name:

Summary Timeline

Check out Codility training tasks





Tasks Details

1. SqlEventsDelta

Easy

Compute the difference between the latest and the second latest value for each event type.

Task Score

Correctness

Performance

100% 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).

For example, given the following data:

event_type	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.

Solution

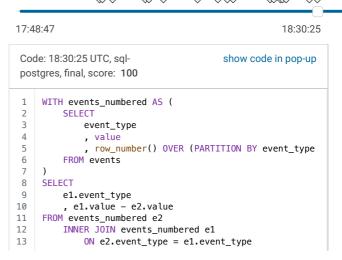
Programming language used: SQL (PostgreSQL)

Total time used: 42 minutes

Effective time used: 42 minutes

Notes: not defined yet

Task timeline



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

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Test results - Codility

14	AND e2.row_num = 2
15	AND e1.row_num = 1
16	ORDER BY event_type

Analysis summary

The solution obtained perfect score.

Analysis

collap	ose all	Example tes	ts
\blacksquare	exampl	e	✓ OK
	example	test	
1.	0.044 s	OK	
		function result:	
		++	
		2 -5	
		3 4	
		++	
collap	ose all	Correctness to	ests
\blacksquare	simple_	one_type	✓ OK
	One type	of events	
1.	0.044 s	ок	
\blacksquare	extreme	e_unique_types	✓ OK
	Unique ty	pes of events	
1.	0.044 s	ОК	
2.	0.044 s	OK	
۷.	0.044 5	OK	
\blacksquare	extreme	e_empty_data	✓ OK
	Empty da	ta set	
1.	0.044 s	ОК	
2.	0.040 s	ОК	
	0.0400		
•	simple		✓ OK
	Event typ times	es repeating various number of	
	unies		
1.	0.044 s	OK	
•	cyclic_p	oolling	✓ OK
	N=16, fou	ur event types, four series of events	3
	of differe	nt types	
1.	0.040 s	ОК	
_	hracket	ed polling	✓ OK
•		ed_polling o rounds of polling with reversed	VOR
	order	o roundo or poining marrierorou	
1	0.044.0	OK	
1.	0.044 s	OK	
2.	0.044 s	ОК	
•	single_e	event_type	∨ OK
	-	e type of events	
1.	0.044 s	ОК	
•	double_	events	✓ OK
*		events o event types mixed	V
1.	0.044 s	OK	
•	random	11	✓ OK
	random s	equence; N=100, 100 event types	
1.	0.044 s	OK	
	5.10	· ·	

Test results - Codility

•	random2 random sequence; N=100, 12 event types	∨ OK
1.	0.040 s OK	
•	random3 random sequence; N=100, 4 event types	∨ OK