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Overview

Stats via EXPLAIN ANALYZE script gather stats for all database objects involved in the execution plan for a query.

Report Creation Time : 2024-08-02 00:17:14

Query and Execution Plan Details

This section shows SQL details along with the underlying execution plan.

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Postgres Explain Visualizer - Dalibo

Plan	Grid	Raw	Query	Stats	1.11.0					
Execution time: 10.2ms		Planning time: 0.267ms		Triggers: N/A						
					shared					
time	rows	estim	cost	filter	hit					
#1	0	1,012	1 × ▲	5.1	Append					
#2	0	1		8.31	└─ Index Scan on planstats.testplanstats using testplanstats_col1_key					3
#3	0 0.004ms 0%	0	● ∞ × ▲ Planned: 10	35.8	└─ Bitmap Heap Scan on planstats.testplanstats as testplanstats_1 Bitmap Heap Scan Node searches through the pages returned by the Bitmap Index Scan for relevant rows. Misc Output Workers Actual Startup Time 0.039ms Actual Total Time 0.04ms Startup Cost 4.37 Plan Width 12 Bytes Recheck Cond (testplanstats_1.col2 = 1) * Calculated value					
#4	0 0.036ms 0%	0	● ∞ × ▲ Planned: 10	4.37	└─ L Bitmap Index Scan using idx_testplanstats1 Bitmap Index Scan Node uses a Bitmap Index (index which uses 1 bit per page) to find all relevant pages. Results of this node are fed to the Bitmap Heap Scan. Misc Output Workers Actual Startup Time 0.036ms Actual Total Time 0.036ms Index Cond (testplanstats_1.col2 = 1) * Calculated value					2 16 kB
#5	● 10 9.83ms 96%	1,011	1 × ▼ Planned: 1,009	● 1,740 ● 98% 98,989	└─ L Seq Scan on planstats.testplanstats as testplanstats_2 Seq Scan Node finds relevant records by sequentially scanning the input record set. When reading from a table, Seq Scans (unlike Index Scans) perform a single read operation (only the table is read). Misc Output Workers Actual Startup Time 0.011ms Actual Total Time 9.83ms Plan Width 12 Bytes Filter (testplanstats_2.col3 = 1)					490 3.8 MB

Query and Object Statistics

This section shows underlying statistics of objects involve in Execution plan of the SQL.

Performance Metrics - pg_stats_statements

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This section shows the underlying runtime execution stats of SQL.

QueryID	Mean_Planning_Time	Mean_Execution_Time	Standard_Deviation_Exec_Time	Row_Per_Exec	Calls	Plan Count	Disk IO per Call	Buffer IO per Call	Disk Temp Usage
7740365855379636009	0.42	5.42	5.63	506	18	18	0	264	0

Database Table Stats Summary

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This section shows the underlying stats of the table referenced in the execution plan.

SchemaName	TableName	Table_Size	Index_Size	TablePages	LiveRows	DeadRows	Partition?	BloatPerc	HOT rate	LVacuumTime	LAnalyzeTime	AVThres	AVSciFactor	AVThreshold	Expect_AV	Pub?
planstats	testplanstats	3920 kB	3056 kB	490	100000	0	N	0	0.00	01-AUG-24 13:00:46	01-AUG-24 13:00:46	50	0.2	20,050		N

Database Index Stats Summary

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This section shows the underlying stats of the index referenced in the execution plan.

SchemaName	TableName	IndexName	IndexSize	IndexScan	LastIndexScan	IndexEntryScan	TableRowsFetch	IndexDef
planstats	testplanstats	idx_testplanstats1	816 kB	9	01-AUG-24 20:18:46	0	0	btree (col2)
planstats	testplanstats	testplanstats_col1_key	2208 kB	9	01-AUG-24 20:18:46	9	9	UNIQUE btree (col1)

Execution Plan Columns Stats Summary

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This section shows the underlying stats of the column referenced in the execution plan.

SchemaName	TableName	ColumnName	DataType	Nullable	Null Fraction	Distinct	Correlation	Selectivity	Storage Type	Compression	Statistics Target	Most Common Val(5)	Most Common Freq(5)
planstats	testplanstats	col1	integer	NULL	0.00	-1	1.000	1.00	plain				
planstats	testplanstats	col2	integer	NULL	0.52	4848	0.102	9.99	plain		300		
planstats	testplanstats	col3	integer	NULL	0.00	99	0.011	1010.10	plain			{81,73,88,45,24}	{0.010333333,0.010322225,0.010311111,0.0103,0.010288889}

Execution Plan Extended Stats Summary

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This section shows the underlying extended stats of the Table referenced in the execution plan.

Schema	TableName	Statistics Name	columns	NDistinct	Dependency	MCV	Statistics Target
planstats	testplanstats	teststats1	col2, col3	Y	Y	Y	-1

Execution Plan Trigger Stats Summary

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This section shows the underlying details of triggers referenced in the execution plan, if any.

triggername	Time	Calls	TableName	ProcedureName	TriggerDef
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Execution Plan Function Stats Summary

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This section shows the underlying details of functions referenced in the execution plan, but only if the *track_functions* flag is set.

schemaname	funcname	calls	total_time	self_time	Type	Volatility	Parallel	Language	Filter
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Additional Configuration and Database Details

This section shows additional database details along with must-know configurations for execution plan analysis.

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Database Name	version	Size	Hit Ratio	xact_commit_ratio	xact_rollback_ratio	deadlocks	conflicts	Temp Files	Total Temp
plantest	PostgreSQL 16.3	41 MB	99	95	4	0	0	12	67 MB

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Database Settings During Execution

Execution Plan Setting	Value
search_path	planstats, public
work_mem	1MB

Database Parameter Settings Other Than Defaults

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Parameter	Value
TimeZone	Asia/Kolkata
application_name	psql
client_encoding	UTF8
default_text_search_config	pg_catalog.english
lc_messages	C
listen_addresses	*
log_timezone	Asia/Kolkata
logging_collector	on
search_path	planstats, public
shared_preload_libraries	pg_stat_statements,auto_explain
track_functions	all

Important Configuration Settings for Execution Plan

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Parameter	Value
default_statistics_target	100
from_collapse_limit	8
hash_mem_multiplier	2
join_collapse_limit	8
max_parallel_workers	8
max_parallel_workers_per_gather	2
min_parallel_table_scan_size	8MB
plan_cache_mode	auto
random_page_cost	4
seq_page_cost	1
temp_buffers	8MB
work_mem	4MB

End Report
