

Distribution of Parameters for Generated SQL Queries on the TPC-H Database

Scenario: 1-3jp_ujpp__g__h0ss_h0nss

Scale factor: 1 GB

The 1000-query pack was generated on: 2023-11-09

First column ('Query parameter or value') displays either:

- a parameter name, or

- a value of the current parameter (only for low-cardinality parameters).

Second column ('Descriptive statistics') displays:

- for low cardinality parameters: frequency and proportion from total (of 1000 queries)

- for higher cardinality parameters: [min, median, max] mean / SD

Query parameter or value	Descriptive statistics
SELECT_n_of_columns	[1, 7, 110] 10 / 13
SELECT_n_of_non_aggr_func__RTRIM	
0	702 (70%)
1	222 (22%)
2	59 (5.9%)
3	8 (0.8%)
4	6 (0.6%)
5	3 (0.3%)
SELECT_n_of_non_aggr_func__SUBSTR	
0	690 (69%)
1	227 (23%)
2	64 (6.4%)
3	13 (1.3%)
4	5 (0.5%)
5	1 (0.1%)

Query parameter or value	Descriptive statistics
SELECT__n_of__non__aggr__func__LTRIM	
0	700 (70%)
1	236 (24%)
2	51 (5.1%)
3	9 (0.9%)
4	3 (0.3%)
6	1 (0.1%)
SELECT__n_of__non__aggr__func__LOWER	
0	676 (68%)
1	267 (27%)
2	46 (4.6%)
3	6 (0.6%)
4	2 (0.2%)
5	3 (0.3%)
SELECT__n_of__non__aggr__func__UPPER	
0	709 (71%)
1	226 (23%)
2	51 (5.1%)
3	6 (0.6%)
4	5 (0.5%)
5	3 (0.3%)
SELECT__n_of__non__aggr__func__ABS	
0	942 (94%)
1	50 (5.0%)
2	7 (0.7%)
3	1 (0.1%)
SELECT__n_of__non__aggr__func__DAY	
0	919 (92%)
1	70 (7.0%)
2	9 (0.9%)
3	2 (0.2%)
SELECT__n_of__non__aggr__func__MONTH	
0	868 (87%)
1	106 (11%)
2	18 (1.8%)
3	4 (0.4%)
4	2 (0.2%)
5	2 (0.2%)
SELECT__n_of__non__aggr__func__DOW	
0	893 (89%)
1	84 (8.4%)
2	12 (1.2%)
3	10 (1.0%)
4	1 (0.1%)
SELECT__n_of__non__aggr__func__LOG	
0	897 (90%)

Query parameter or value	Descriptive statistics
1	82 (8.2%)
2	15 (1.5%)
3	4 (0.4%)
4	1 (0.1%)
5	1 (0.1%)
SELECT__n_of__non__aggr__func__ROUND	
0	950 (95%)
1	48 (4.8%)
2	1 (0.1%)
3	1 (0.1%)
SELECT__n_of__non__aggr__func__YEAR	
0	870 (87%)
1	96 (9.6%)
2	23 (2.3%)
3	8 (0.8%)
4	3 (0.3%)
SELECT__n_of__non__aggr__func__SQRT	
0	854 (85%)
1	119 (12%)
2	18 (1.8%)
3	8 (0.8%)
4	1 (0.1%)
SELECT__n_of__non__aggr__func__TRUNC	
0	946 (95%)
1	48 (4.8%)
2	5 (0.5%)
3	1 (0.1%)
SELECT__n_of__non__aggr__func__FLOOR	
0	948 (95%)
1	49 (4.9%)
2	3 (0.3%)
SELECT__n_of__all__non__aggr__func	[0.00, 2.00, 35.00] 3.12 / 4.09
SELECT__n_of__aggr__func__COUNT	[0.00, 0.00, 9.00] 0.75 / 1.57
SELECT__n_of__aggr__func__MAX	[0.00, 0.00, 12.00] 0.62 / 1.47
SELECT__n_of__aggr__func__AVG	
0	948 (95%)
1	42 (4.2%)
2	7 (0.7%)
3	3 (0.3%)
SELECT__n_of__aggr__func__MIN	[0.00, 0.00, 9.00] 0.65 / 1.40
SELECT__n_of__aggr__func__COUNT_DISTINCT	[0.00, 0.00, 9.00] 0.66 / 1.50
SELECT__n_of__aggr__func__SUM	
0	954 (95%)
1	33 (3.3%)
2	11 (1.1%)
3	2 (0.2%)

Query parameter or value	Descriptive statistics
SELECT_n_of_all_aggr_func	[0.00, 2.00, 12.00] 2.80 / 2.28
FROM_n_of_join_paths	
1	314 (31%)
2	348 (35%)
3	338 (34%)
FROM_n_of_super_joins__RIGHT	
0	746 (75%)
1	232 (23%)
2	22 (2.2%)
FROM_n_of_super_joins__FULL	
0	784 (78%)
1	197 (20%)
2	19 (1.9%)
FROM_n_of_super_joins__LEFT	
0	777 (78%)
1	206 (21%)
2	17 (1.7%)
FROM_n_of_joins__INNER	
0	236 (24%)
1	252 (25%)
2	239 (24%)
3	139 (14%)
4	76 (7.6%)
5	39 (3.9%)
6	13 (1.3%)
7	5 (0.5%)
8	1 (0.1%)
FROM_n_of_joins__RIGHT	
0	244 (24%)
1	263 (26%)
2	209 (21%)
3	147 (15%)
4	84 (8.4%)
5	37 (3.7%)
6	15 (1.5%)
7	1 (0.1%)
FROM_n_of_processed_rows	[5, 6,810,616, 22,801,828] 6,507,027 / 5,815,867
WHERE_n_of_predicates	[0.00, 3.00, 10.00] 2.89 / 2.20
WHERE_n_of_attris_of_type__character_varying	
0	436 (44%)
1	309 (31%)
2	153 (15%)
3	80 (8.0%)
4	17 (1.7%)
5	3 (0.3%)
6	1 (0.1%)

Query parameter or value	Descriptive statistics
7	1 (0.1%)
WHERE_n_of_attribs_of_type__integer	
0	436 (44%)
1	320 (32%)
2	174 (17%)
3	53 (5.3%)
4	14 (1.4%)
5	1 (0.1%)
6	2 (0.2%)
WHERE_n_of_attribs_of_type__character	
0	718 (72%)
1	218 (22%)
2	56 (5.6%)
3	6 (0.6%)
4	2 (0.2%)
WHERE_n_of_attribs_of_type__numeric	
0	643 (64%)
1	269 (27%)
2	67 (6.7%)
3	18 (1.8%)
4	3 (0.3%)
WHERE_n_of_attribs_of_type__date	
0	829 (83%)
1	141 (14%)
2	23 (2.3%)
3	6 (0.6%)
4	1 (0.1%)
WHERE_n_of_pkey_attribs	
0	611 (61%)
1	291 (29%)
2	75 (7.5%)
3	21 (2.1%)
4	2 (0.2%)
WHERE_n_of_connect_OR	
0	435 (44%)
1	181 (18%)
2	137 (14%)
3	104 (10%)
4	66 (6.6%)
5	49 (4.9%)
6	21 (2.1%)
7	7 (0.7%)
WHERE_n_of_operators__greater_or_less	
0	399 (40%)
1	310 (31%)
2	172 (17%)

Query parameter or value	Descriptive statistics
3	85 (8.5%)
4	23 (2.3%)
5	9 (0.9%)
6	2 (0.2%)
WHERE_n_of_operators_in	
0	611 (61%)
1	285 (29%)
2	80 (8.0%)
3	21 (2.1%)
4	3 (0.3%)
WHERE_n_of_operators_like	
0	840 (84%)
1	143 (14%)
2	16 (1.6%)
3	1 (0.1%)
WHERE_n_of_operators_between	
0	598 (60%)
1	278 (28%)
2	90 (9.0%)
3	28 (2.8%)
4	6 (0.6%)
WHERE_n_of_non_aggr_func_ROUND	
0	971 (97%)
1	29 (2.9%)
WHERE_n_of_non_aggr_func_SQRT	
0	909 (91%)
1	85 (8.5%)
2	5 (0.5%)
3	1 (0.1%)
WHERE_n_of_non_aggr_func_TRUNC	
0	965 (97%)
1	34 (3.4%)
2	1 (0.1%)
WHERE_n_of_non_aggr_func_MONTH	
0	966 (97%)
1	34 (3.4%)
WHERE_n_of_non_aggr_func_FLOOR	
0	975 (98%)
1	25 (2.5%)
WHERE_n_of_non_aggr_func_YEAR	
0	969 (97%)
1	29 (2.9%)
2	2 (0.2%)
WHERE_n_of_non_aggr_func_LOG	
0	938 (94%)
1	59 (5.9%)

Query parameter or value	Descriptive statistics
2	3 (0.3%)
WHERE_n_of_non_aggr_func__ABS	
0	974 (97%)
1	26 (2.6%)
WHERE_n_of_non_aggr_func__DAY	
0	977 (98%)
1	22 (2.2%)
2	1 (0.1%)
WHERE_n_of_non_aggr_func__DOW	
0	974 (97%)
1	26 (2.6%)
WHERE_n_of_all_non_aggr_func	
0	704 (70%)
1	219 (22%)
2	58 (5.8%)
3	16 (1.6%)
4	2 (0.2%)
5	1 (0.1%)
GROUP_BY_n_of_columns	[0.00, 2.00, 9.00] 2.44 / 2.10
HAVING_n_of_main_predicates	
0	410 (41%)
1	213 (21%)
2	197 (20%)
3	180 (18%)
ORDER_BY_n_of_columns	
0	297 (30%)
1	357 (36%)
2	261 (26%)
3	68 (6.8%)
4	9 (0.9%)
5	6 (0.6%)
6	1 (0.1%)
8	1 (0.1%)
limit	[2, 507, 999] 502 / 288
offset	[0, 0, 1,000] 252 / 329