

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

Scenario: 1-3jp_ujpp__g__h0-3ss_h0-3nss

Scale factor: 5 GB

The 1000-query pack was generated on: 2023-11-10

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, 106] 10 / 13
SELECT_n_of_non_aggr_func__LOWER	
0	692 (69%)
1	243 (24%)
2	53 (5.3%)
3	8 (0.8%)
4	2 (0.2%)
5	2 (0.2%)
SELECT_n_of_non_aggr_func__RTRIM	
0	687 (69%)
1	235 (24%)
2	63 (6.3%)
3	11 (1.1%)
4	4 (0.4%)
SELECT_n_of_non_aggr_func__SQRT	

Query parameter or value	Descriptive statistics
0	857 (86%)
1	110 (11%)
2	23 (2.3%)
3	5 (0.5%)
4	4 (0.4%)
5	1 (0.1%)
SELECT_n_of_non_aggr_func___UPPER	
0	678 (68%)
1	243 (24%)
2	52 (5.2%)
3	18 (1.8%)
4	5 (0.5%)
5	3 (0.3%)
6	1 (0.1%)
SELECT_n_of_non_aggr_func___LTRIM	
0	692 (69%)
1	238 (24%)
2	52 (5.2%)
3	15 (1.5%)
4	3 (0.3%)
SELECT_n_of_non_aggr_func___FLOOR	
0	935 (94%)
1	59 (5.9%)
2	5 (0.5%)
3	1 (0.1%)
SELECT_n_of_non_aggr_func___LOG	
0	895 (90%)
1	89 (8.9%)
2	11 (1.1%)
3	4 (0.4%)
5	1 (0.1%)
SELECT_n_of_non_aggr_func___SUBSTR	
0	684 (68%)
1	249 (25%)
2	49 (4.9%)
3	12 (1.2%)
4	2 (0.2%)
5	2 (0.2%)
6	1 (0.1%)
8	1 (0.1%)
SELECT_n_of_non_aggr_func___DAY	
0	913 (91%)
1	70 (7.0%)
2	10 (1.0%)
3	6 (0.6%)
4	1 (0.1%)

Query parameter or value	Descriptive statistics
SELECT_n_of_non_aggr_func___DOW	
0	898 (90%)
1	84 (8.4%)
2	12 (1.2%)
3	5 (0.5%)
4	1 (0.1%)
SELECT_n_of_non_aggr_func___MONTH	
0	846 (85%)
1	115 (12%)
2	26 (2.6%)
3	7 (0.7%)
4	3 (0.3%)
5	3 (0.3%)
SELECT_n_of_non_aggr_func___YEAR	
0	864 (86%)
1	107 (11%)
2	19 (1.9%)
3	6 (0.6%)
4	1 (0.1%)
5	2 (0.2%)
6	1 (0.1%)
SELECT_n_of_non_aggr_func___ABS	
0	949 (95%)
1	45 (4.5%)
2	4 (0.4%)
3	2 (0.2%)
SELECT_n_of_non_aggr_func___TRUNC	
0	936 (94%)
1	62 (6.2%)
2	2 (0.2%)
SELECT_n_of_non_aggr_func___ROUND	
0	927 (93%)
1	68 (6.8%)
2	4 (0.4%)
3	1 (0.1%)
SELECT_n_of_all_non_aggr_func	[0.0, 2.0, 43.0] 3.3 / 4.3
SELECT_n_of_aggr_func___COUNT	[0.00, 0.00, 9.00] 0.68 / 1.50
SELECT_n_of_aggr_func___MIN	[0.00, 0.00, 9.00] 0.56 / 1.37
SELECT_n_of_aggr_func___COUNT_DISTINCT	[0.00, 0.00, 10.00] 0.69 / 1.52
SELECT_n_of_aggr_func___MAX	
0	763 (76%)
1	80 (8.0%)
2	49 (4.9%)
3	39 (3.9%)
4	27 (2.7%)
5	19 (1.9%)

Query parameter or value	Descriptive statistics
6	16 (1.6%)
7	4 (0.4%)
8	3 (0.3%)
SELECT__n_of_aggr_func__SUM	
0	926 (93%)
1	56 (5.6%)
2	14 (1.4%)
3	1 (0.1%)
4	2 (0.2%)
5	1 (0.1%)
SELECT__n_of_aggr_func__AVG	
0	938 (94%)
1	48 (4.8%)
2	10 (1.0%)
3	3 (0.3%)
4	1 (0.1%)
SELECT__n_of_all_aggr_func	[0.00, 2.00, 11.00] 2.75 / 2.37
FROM__n_of_join_paths	
1	333 (33%)
2	333 (33%)
3	334 (33%)
FROM__n_of_super_joins__RIGHT	
0	778 (78%)
1	200 (20%)
2	22 (2.2%)
FROM__n_of_super_joins__FULL	
0	782 (78%)
1	198 (20%)
2	20 (2.0%)
FROM__n_of_super_joins__LEFT	
0	757 (76%)
1	219 (22%)
2	24 (2.4%)
FROM__n_of_joins__RIGHT	
0	247 (25%)
1	278 (28%)
2	198 (20%)
3	151 (15%)
4	71 (7.1%)
5	36 (3.6%)
6	14 (1.4%)
7	5 (0.5%)
FROM__n_of_joins__INNER	
0	222 (22%)
1	272 (27%)
2	221 (22%)

Query parameter or value	Descriptive statistics
3	145 (15%)
4	85 (8.5%)
5	34 (3.4%)
6	14 (1.4%)
7	5 (0.5%)
8	2 (0.2%)
FROM_n_of_processed_rows	[5, 34,050,148, 114,749,792] 32,290,694 / 28,984,274
WHERE_n_of_predicates	[0.00, 2.00, 10.00] 2.78 / 2.22
WHERE_n_of_attribs_of_type__character	
0	715 (72%)
1	218 (22%)
2	59 (5.9%)
3	8 (0.8%)
WHERE_n_of_attribs_of_type__numeric	
0	647 (65%)
1	265 (27%)
2	68 (6.8%)
3	17 (1.7%)
4	3 (0.3%)
WHERE_n_of_attribs_of_type__character_varying	
0	436 (44%)
1	320 (32%)
2	155 (16%)
3	64 (6.4%)
4	22 (2.2%)
5	2 (0.2%)
6	1 (0.1%)
WHERE_n_of_attribs_of_type__integer	
0	470 (47%)
1	307 (31%)
2	155 (16%)
3	48 (4.8%)
4	18 (1.8%)
5	2 (0.2%)
WHERE_n_of_attribs_of_type__date	
0	842 (84%)
1	136 (14%)
2	20 (2.0%)
3	2 (0.2%)
WHERE_n_of_pkey_attribs	
0	616 (62%)
1	294 (29%)
2	70 (7.0%)
3	16 (1.6%)
4	4 (0.4%)
WHERE_n_of_connect_OR	[0.00, 1.00, 9.00] 1.38 / 1.68

Query parameter or value	Descriptive statistics
WHERE_n_of_operators_in	
0	616 (62%)
1	291 (29%)
2	78 (7.8%)
3	11 (1.1%)
4	3 (0.3%)
5	1 (0.1%)
WHERE_n_of_operators_between	
0	607 (61%)
1	284 (28%)
2	87 (8.7%)
3	17 (1.7%)
4	4 (0.4%)
5	1 (0.1%)
WHERE_n_of_operators_greater_or_less	
0	406 (41%)
1	307 (31%)
2	158 (16%)
3	95 (9.5%)
4	26 (2.6%)
5	5 (0.5%)
6	3 (0.3%)
WHERE_n_of_operators_like	
0	815 (82%)
1	165 (17%)
2	19 (1.9%)
3	1 (0.1%)
WHERE_n_of_non_aggr_func_ROUND	
0	972 (97%)
1	28 (2.8%)
WHERE_n_of_non_aggr_func_SQRT	
0	916 (92%)
1	77 (7.7%)
2	7 (0.7%)
WHERE_n_of_non_aggr_func_FLOOR	
0	963 (96%)
1	37 (3.7%)
WHERE_n_of_non_aggr_func_DAY	
0	981 (98%)
1	19 (1.9%)
WHERE_n_of_non_aggr_func_ABS	
0	973 (97%)
1	26 (2.6%)
2	1 (0.1%)
WHERE_n_of_non_aggr_func_TRUNC	
0	970 (97%)

Query parameter or value	Descriptive statistics
1	30 (3.0%)
WHERE_n_of_non_aggr_func__LOG	
0	934 (93%)
1	66 (6.6%)
WHERE_n_of_non_aggr_func__DOW	
0	977 (98%)
1	23 (2.3%)
WHERE_n_of_non_aggr_func__YEAR	
0	970 (97%)
1	29 (2.9%)
3	1 (0.1%)
WHERE_n_of_non_aggr_func__MONTH	
0	979 (98%)
1	21 (2.1%)
WHERE_n_of_all_non_aggr_func	
0	713 (71%)
1	211 (21%)
2	66 (6.6%)
3	8 (0.8%)
4	2 (0.2%)
GROUP_BY_n_of_columns	[0.00, 2.00, 9.00] 2.39 / 2.13
HAVING_n_of_main_predicates	[0.00, 4.00, 9.00] 3.41 / 2.59
HAVING_n_of_main_predicates__non_scalar_subquery	
0	426 (43%)
1	203 (20%)
2	185 (19%)
3	186 (19%)
HAVING_n_of_main_predicates__scalar_subquery	
0	426 (43%)
1	190 (19%)
2	202 (20%)
3	182 (18%)
HAVING_n_of_subqueries__non_scalar_subquery	
0	426 (43%)
1	203 (20%)
2	185 (19%)
3	186 (19%)
HAVING_n_of_subqueries__scalar_subquery	[0.0, 1.0, 20.0] 2.4 / 3.6
HAVING_n_of_processed_rows_by_subqueries	[0, 24,825,560, 1,852,490,576] 118,397,650 / 219,106,642
ORDER_BY_n_of_columns	
0	291 (29%)
1	376 (38%)
2	233 (23%)
3	73 (7.3%)
4	14 (1.4%)

Query parameter or value	Descriptive statistics
5	7 (0.7%)
6	5 (0.5%)
7	1 (0.1%)
limit	[1, 517, 1,000] 512 / 285
offset	[0, 28, 1,000] 261 / 328