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

Scenario: 1-6jp_ujjp__g__h0-3ss_h0nss

Scale factor: 0.01 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, 9, 183] 16 / 26
SELECT_n_of_non_aggr_func___LOWER	[0.00, 0.00, 15.00] 0.66 / 1.15
SELECT_n_of_non_aggr_func___SQRT	
0	798 (80%)
1	144 (14%)
2	29 (2.9%)
3	14 (1.4%)
4	9 (0.9%)
5	3 (0.3%)
6	1 (0.1%)
7	2 (0.2%)
SELECT_n_of_non_aggr_func___UPPER	[0.00, 0.00, 11.00] 0.58 / 1.02
SELECT_n_of_non_aggr_func___LTRIM	
0	627 (63%)
1	265 (27%)

Query parameter or value	Descriptive statistics
2	67 (6.7%)
3	18 (1.8%)
4	12 (1.2%)
5	5 (0.5%)
6	4 (0.4%)
7	1 (0.1%)
9	1 (0.1%)
SELECT_n_of_non_aggr_func___LOG	
0	887 (89%)
1	79 (7.9%)
2	21 (2.1%)
3	7 (0.7%)
4	4 (0.4%)
5	1 (0.1%)
6	1 (0.1%)
SELECT_n_of_non_aggr_func___SUBSTR	
0	617 (62%)
1	268 (27%)
2	64 (6.4%)
3	27 (2.7%)
4	12 (1.2%)
5	5 (0.5%)
6	1 (0.1%)
7	3 (0.3%)
8	3 (0.3%)
SELECT_n_of_non_aggr_func___RTRIM	
0	627 (63%)
1	254 (25%)
2	76 (7.6%)
3	20 (2.0%)
4	9 (0.9%)
5	8 (0.8%)
6	2 (0.2%)
7	2 (0.2%)
8	2 (0.2%)
SELECT_n_of_non_aggr_func___TRUNC	
0	916 (92%)
1	74 (7.4%)
2	8 (0.8%)
3	2 (0.2%)
SELECT_n_of_non_aggr_func___ROUND	
0	920 (92%)
1	65 (6.5%)
2	10 (1.0%)
3	3 (0.3%)
4	2 (0.2%)

Query parameter or value	Descriptive statistics
SELECT_n_of_non_aggr_func___ABS	
0	926 (93%)
1	59 (5.9%)
2	12 (1.2%)
3	2 (0.2%)
4	1 (0.1%)
SELECT_n_of_non_aggr_func___YEAR	
0	842 (84%)
1	107 (11%)
2	26 (2.6%)
3	12 (1.2%)
4	3 (0.3%)
5	6 (0.6%)
6	2 (0.2%)
7	1 (0.1%)
8	1 (0.1%)
SELECT_n_of_non_aggr_func___FLOOR	
0	924 (92%)
1	61 (6.1%)
2	12 (1.2%)
3	2 (0.2%)
4	1 (0.1%)
SELECT_n_of_non_aggr_func___MONTH	[0.00, 0.00, 11.00] 0.34 / 0.95
SELECT_n_of_non_aggr_func___DAY	
0	880 (88%)
1	89 (8.9%)
2	20 (2.0%)
3	5 (0.5%)
4	3 (0.3%)
5	1 (0.1%)
6	1 (0.1%)
8	1 (0.1%)
SELECT_n_of_non_aggr_func___DOW	
0	861 (86%)
1	101 (10%)
2	20 (2.0%)
3	7 (0.7%)
4	6 (0.6%)
5	1 (0.1%)
6	3 (0.3%)
7	1 (0.1%)
SELECT_n_of_all_non_aggr_func	[0.0, 3.0, 81.0] 4.8 / 8.0
SELECT_n_of_aggr_func___COUNT	[0.00, 0.00, 13.00] 0.87 / 2.03
SELECT_n_of_aggr_func___MAX	[0.00, 0.00, 13.00] 0.96 / 2.05
SELECT_n_of_aggr_func___SUM	
0	937 (94%)

Query parameter or value	Descriptive statistics
1	40 (4.0%)
2	17 (1.7%)
3	4 (0.4%)
4	2 (0.2%)
SELECT_n_of_aggr_func___MIN	[0.00, 0.00, 13.00] 0.89 / 2.04
SELECT_n_of_aggr_func___COUNT_DISTINCT	[0.00, 0.00, 12.00] 0.73 / 1.69
SELECT_n_of_aggr_func___AVG	
0	936 (94%)
1	46 (4.6%)
2	14 (1.4%)
3	1 (0.1%)
4	2 (0.2%)
5	1 (0.1%)
SELECT_n_of_all_aggr_func	[0.00, 3.00, 14.00] 3.63 / 3.11
FROM_n_of_join_paths	
1	164 (16%)
2	171 (17%)
3	186 (19%)
4	144 (14%)
5	159 (16%)
6	176 (18%)
FROM_n_of_super_joins___RIGHT	
0	544 (54%)
1	314 (31%)
2	109 (11%)
3	31 (3.1%)
4	1 (0.1%)
5	1 (0.1%)
FROM_n_of_super_joins___LEFT	
0	541 (54%)
1	314 (31%)
2	116 (12%)
3	25 (2.5%)
4	3 (0.3%)
5	1 (0.1%)
FROM_n_of_super_joins___FULL	
0	554 (55%)
1	317 (32%)
2	105 (11%)
3	21 (2.1%)
4	3 (0.3%)
FROM_n_of_joins___INNER	[0.00, 3.00, 13.00] 3.28 / 2.49
FROM_n_of_joins___RIGHT	[0.00, 3.00, 13.00] 3.27 / 2.46
FROM_n_of_processed_rows	[5, 93,258, 433,730] 119,327 / 97,267
WHERE_n_of_predicates	[0.00, 4.00, 12.00] 4.00 / 2.97
WHERE_n_of_attribs_of_type___character_varying	

Query parameter or value	Descriptive statistics
0	352 (35%)
1	291 (29%)
2	187 (19%)
3	99 (9.9%)
4	48 (4.8%)
5	20 (2.0%)
6	3 (0.3%)
WHERE_n_of_attribs_of_type___date	
0	774 (77%)
1	181 (18%)
2	36 (3.6%)
3	8 (0.8%)
4	1 (0.1%)
WHERE_n_of_attribs_of_type___integer	
0	349 (35%)
1	289 (29%)
2	175 (18%)
3	113 (11%)
4	52 (5.2%)
5	18 (1.8%)
6	4 (0.4%)
WHERE_n_of_attribs_of_type___character	
0	642 (64%)
1	258 (26%)
2	82 (8.2%)
3	14 (1.4%)
4	4 (0.4%)
WHERE_n_of_attribs_of_type___numeric	
0	548 (55%)
1	292 (29%)
2	116 (12%)
3	31 (3.1%)
4	13 (1.3%)
WHERE_n_of_pkey_attribs	
0	527 (53%)
1	305 (31%)
2	123 (12%)
3	33 (3.3%)
4	10 (1.0%)
5	2 (0.2%)
WHERE_n_of_connect_OR	[0.00, 2.00, 10.00] 2.32 / 2.43
WHERE_n_of_operators___between	
0	504 (50%)
1	310 (31%)
2	127 (13%)
3	40 (4.0%)

Query parameter or value	Descriptive statistics
4	16 (1.6%)
5	3 (0.3%)
WHERE_n_of_operators___greater_or_less	
0	312 (31%)
1	263 (26%)
2	196 (20%)
3	122 (12%)
4	60 (6.0%)
5	28 (2.8%)
6	16 (1.6%)
7	1 (0.1%)
8	2 (0.2%)
WHERE_n_of_operators___in	
0	531 (53%)
1	289 (29%)
2	111 (11%)
3	56 (5.6%)
4	11 (1.1%)
5	1 (0.1%)
6	1 (0.1%)
WHERE_n_of_operators___like	
0	794 (79%)
1	175 (18%)
2	28 (2.8%)
3	3 (0.3%)
WHERE_n_of_non_aggr_func___LOG	
0	926 (93%)
1	67 (6.7%)
2	7 (0.7%)
WHERE_n_of_non_aggr_func___FLOOR	
0	961 (96%)
1	38 (3.8%)
2	1 (0.1%)
WHERE_n_of_non_aggr_func___MONTH	
0	971 (97%)
1	27 (2.7%)
2	2 (0.2%)
WHERE_n_of_non_aggr_func___SQRT	
0	883 (88%)
1	106 (11%)
2	10 (1.0%)
3	1 (0.1%)
WHERE_n_of_non_aggr_func___ROUND	
0	956 (96%)
1	44 (4.4%)
WHERE_n_of_non_aggr_func___TRUNC	

Query parameter or value	Descriptive statistics
0	966 (97%)
1	34 (3.4%)
WHERE_n_of_non_aggr_func___DOW	
0	957 (96%)
1	43 (4.3%)
WHERE_n_of_non_aggr_func___YEAR	
0	962 (96%)
1	38 (3.8%)
WHERE_n_of_non_aggr_func___ABS	
0	954 (95%)
1	44 (4.4%)
2	2 (0.2%)
WHERE_n_of_non_aggr_func___DAY	
0	965 (97%)
1	34 (3.4%)
2	1 (0.1%)
WHERE_n_of_all_non_aggr_func	
0	643 (64%)
1	226 (23%)
2	101 (10%)
3	24 (2.4%)
4	6 (0.6%)
GROUP_BY_n_of_columns	[0.00, 3.00, 12.00] 3.10 / 2.85
HAVING_n_of_main_predicates	
0	284 (28%)
1	88 (8.8%)
2	143 (14%)
3	199 (20%)
4	146 (15%)
5	97 (9.7%)
6	43 (4.3%)
HAVING_n_of_main_predicates___scalar_subquery	
0	413 (41%)
1	176 (18%)
2	221 (22%)
3	190 (19%)
HAVING_n_of_subqueries___scalar_subquery	[0.0, 1.0, 20.0] 2.5 / 3.6
HAVING_n_of_processed_rows_by_subqueries	[0, 29,063, 4,659,325] 299,104 / 606,998
ORDER_BY_n_of_columns	
0	292 (29%)
1	344 (34%)
2	222 (22%)
3	100 (10%)
4	20 (2.0%)
5	9 (0.9%)
6	9 (0.9%)

Query parameter or value	Descriptive statistics
7	4 (0.4%)
limit	[1, 471, 1,000] 477 / 294
offset	[0, 0, 999] 231 / 313