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

Scenario: 1-1jp__g__h0ss_h0nss

Scale factor: 2 GB

The 1000-query pack was generated on: 2023-11-04

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	[1.0, 4.0, 43.0] 5.6 / 5.2
SELECT_n_of_non_aggr_func___LOG	
0	929 (93%)
1	65 (6.5%)
2	5 (0.5%)
3	1 (0.1%)
SELECT_n_of_non_aggr_func___UPPER	
0	775 (78%)
1	194 (19%)
2	27 (2.7%)
3	3 (0.3%)
4	1 (0.1%)
SELECT_n_of_non_aggr_func___RTRIM	
0	793 (79%)
1	177 (18%)

Query parameter or value	Descriptive statistics
2	26 (2.6%)
3	4 (0.4%)
SELECT_n_of_non_aggr_func___DOW	
0	937 (94%)
1	52 (5.2%)
2	11 (1.1%)
SELECT_n_of_non_aggr_func___LOWER	
0	781 (78%)
1	181 (18%)
2	33 (3.3%)
3	4 (0.4%)
4	1 (0.1%)
SELECT_n_of_non_aggr_func___DAY	
0	946 (95%)
1	51 (5.1%)
2	3 (0.3%)
SELECT_n_of_non_aggr_func___MONTH	
0	920 (92%)
1	72 (7.2%)
2	7 (0.7%)
3	1 (0.1%)
SELECT_n_of_non_aggr_func___SUBSTR	
0	793 (79%)
1	182 (18%)
2	22 (2.2%)
3	3 (0.3%)
SELECT_n_of_non_aggr_func___LTRIM	
0	768 (77%)
1	206 (21%)
2	22 (2.2%)
3	4 (0.4%)
SELECT_n_of_non_aggr_func___ABS	
0	961 (96%)
1	38 (3.8%)
2	1 (0.1%)
SELECT_n_of_non_aggr_func___SQRT	
0	908 (91%)
1	83 (8.3%)
2	6 (0.6%)
3	1 (0.1%)
4	1 (0.1%)
5	1 (0.1%)
SELECT_n_of_non_aggr_func___TRUNC	
0	960 (96%)
1	39 (3.9%)
2	1 (0.1%)

Query parameter or value	Descriptive statistics
SELECT_n_of_non_aggr_func___FLOOR	
0	966 (97%)
1	34 (3.4%)
SELECT_n_of_non_aggr_func___YEAR	
0	915 (92%)
1	73 (7.3%)
2	7 (0.7%)
3	4 (0.4%)
4	1 (0.1%)
SELECT_n_of_non_aggr_func___ROUND	
0	976 (98%)
1	24 (2.4%)
SELECT_n_of_all_non_aggr_func	[0.00, 1.00, 19.00] 1.91 / 2.20
SELECT_n_of_aggr_func___COUNT	
0	773 (77%)
1	122 (12%)
2	49 (4.9%)
3	35 (3.5%)
4	15 (1.5%)
5	2 (0.2%)
6	3 (0.3%)
7	1 (0.1%)
SELECT_n_of_aggr_func___MAX	
0	775 (78%)
1	101 (10%)
2	69 (6.9%)
3	34 (3.4%)
4	18 (1.8%)
5	2 (0.2%)
6	1 (0.1%)
SELECT_n_of_aggr_func___MIN	
0	779 (78%)
1	105 (11%)
2	60 (6.0%)
3	26 (2.6%)
4	20 (2.0%)
5	7 (0.7%)
6	3 (0.3%)
SELECT_n_of_aggr_func___COUNT_DISTINCT	
0	764 (76%)
1	109 (11%)
2	75 (7.5%)
3	33 (3.3%)
4	10 (1.0%)
5	5 (0.5%)
6	3 (0.3%)

Query parameter or value	Descriptive statistics
7	1 (0.1%)
SELECT_n_of_aggr_func___AVG	
0	950 (95%)
1	42 (4.2%)
2	8 (0.8%)
SELECT_n_of_aggr_func___SUM	
0	960 (96%)
1	38 (3.8%)
2	2 (0.2%)
SELECT_n_of_all_aggr_func	
0	181 (18%)
1	312 (31%)
2	218 (22%)
3	150 (15%)
4	81 (8.1%)
5	41 (4.1%)
6	13 (1.3%)
7	4 (0.4%)
FROM_n_of_join_paths	
1	1,000 (100%)
FROM_n_of_joins___INNER	
0	464 (46%)
1	342 (34%)
2	153 (15%)
3	36 (3.6%)
4	5 (0.5%)
FROM_n_of_joins___RIGHT	
0	529 (53%)
1	314 (31%)
2	117 (12%)
3	36 (3.6%)
4	4 (0.4%)
FROM_n_of_processed_rows	[5, 1,809,880, 15,295,747] 5,524,251 / 6,244,572
WHERE_n_of_predicates	
0	238 (24%)
1	230 (23%)
2	239 (24%)
3	158 (16%)
4	88 (8.8%)
5	38 (3.8%)
6	9 (0.9%)
WHERE_n_of_attribs_of_type___character_varying	
0	551 (55%)
1	329 (33%)
2	101 (10%)
3	17 (1.7%)

Query parameter or value	Descriptive statistics
4	2 (0.2%)
WHERE_n_of_attribs_of_type___integer	
0	560 (56%)
1	309 (31%)
2	105 (11%)
3	23 (2.3%)
4	2 (0.2%)
5	1 (0.1%)
WHERE_n_of_attribs_of_type___numeric	
0	770 (77%)
1	188 (19%)
2	35 (3.5%)
3	7 (0.7%)
WHERE_n_of_attribs_of_type___character	
0	821 (82%)
1	160 (16%)
2	18 (1.8%)
4	1 (0.1%)
WHERE_n_of_attribs_of_type___date	
0	899 (90%)
1	96 (9.6%)
2	3 (0.3%)
3	2 (0.2%)
WHERE_n_of_pkey_attribs	
0	706 (71%)
1	248 (25%)
2	41 (4.1%)
3	5 (0.5%)
WHERE_n_of_connect_OR	
0	613 (61%)
1	217 (22%)
2	116 (12%)
3	38 (3.8%)
4	14 (1.4%)
5	2 (0.2%)
WHERE_n_of_operators___between	
0	727 (73%)
1	221 (22%)
2	46 (4.6%)
3	6 (0.6%)
WHERE_n_of_operators___in	
0	730 (73%)
1	227 (23%)
2	40 (4.0%)
3	3 (0.3%)
WHERE_n_of_operators___greater_or_less	

Query parameter or value	Descriptive statistics
0	526 (53%)
1	307 (31%)
2	133 (13%)
3	25 (2.5%)
4	9 (0.9%)
WHERE_n_of_operators___like	
0	877 (88%)
1	114 (11%)
2	9 (0.9%)
WHERE_n_of_non_aggr_func___SQRT	
0	938 (94%)
1	59 (5.9%)
2	3 (0.3%)
WHERE_n_of_non_aggr_func___TRUNC	
0	974 (97%)
1	26 (2.6%)
WHERE_n_of_non_aggr_func___MONTH	
0	981 (98%)
1	19 (1.9%)
WHERE_n_of_non_aggr_func___YEAR	
0	992 (99%)
1	8 (0.8%)
WHERE_n_of_non_aggr_func___ABS	
0	986 (99%)
1	14 (1.4%)
WHERE_n_of_non_aggr_func___DOW	
0	986 (99%)
1	14 (1.4%)
WHERE_n_of_non_aggr_func___DAY	
0	983 (98%)
1	17 (1.7%)
WHERE_n_of_non_aggr_func___LOG	
0	955 (96%)
1	45 (4.5%)
WHERE_n_of_non_aggr_func___FLOOR	
0	979 (98%)
1	21 (2.1%)
WHERE_n_of_non_aggr_func___ROUND	
0	983 (98%)
1	17 (1.7%)
WHERE_n_of_all_non_aggr_func	
0	789 (79%)
1	177 (18%)
2	33 (3.3%)
3	1 (0.1%)
GROUP_BY_n_of_columns	

Query parameter or value	Descriptive statistics
0	233 (23%)
1	283 (28%)
2	226 (23%)
3	136 (14%)
4	86 (8.6%)
5	30 (3.0%)
6	6 (0.6%)
HAVING_n_of_main_predicates	
0	422 (42%)
1	188 (19%)
2	209 (21%)
3	181 (18%)
ORDER_BY_n_of_columns	
0	296 (30%)
1	474 (47%)
2	194 (19%)
3	26 (2.6%)
4	8 (0.8%)
5	1 (0.1%)
6	1 (0.1%)
limit	[2, 492, 1,000] 500 / 287
offset	[0, 46, 997] 262 / 325