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

Scenario: 1-3jp_ujjp__g__h0-3ss_h0-3nss

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, 6, 93] 9 / 11
SELECT_n_of_non_aggr_func___SUBSTR	
0	707 (71%)
1	216 (22%)
2	57 (5.7%)
3	11 (1.1%)
4	6 (0.6%)
5	1 (0.1%)
6	2 (0.2%)
SELECT_n_of_non_aggr_func___LOG	
0	891 (89%)
1	94 (9.4%)
2	12 (1.2%)
4	1 (0.1%)
5	2 (0.2%)

Query parameter or value	Descriptive statistics
SELECT_n_of_non_aggr_func___ABS	
0	945 (95%)
1	52 (5.2%)
2	3 (0.3%)
SELECT_n_of_non_aggr_func___DAY	
0	921 (92%)
1	66 (6.6%)
2	10 (1.0%)
3	3 (0.3%)
SELECT_n_of_non_aggr_func___RTRIM	
0	708 (71%)
1	220 (22%)
2	57 (5.7%)
3	11 (1.1%)
4	3 (0.3%)
7	1 (0.1%)
SELECT_n_of_non_aggr_func___SQRT	
0	846 (85%)
1	126 (13%)
2	20 (2.0%)
3	3 (0.3%)
4	3 (0.3%)
5	2 (0.2%)
SELECT_n_of_non_aggr_func___LTRIM	
0	683 (68%)
1	250 (25%)
2	52 (5.2%)
3	11 (1.1%)
4	3 (0.3%)
7	1 (0.1%)
SELECT_n_of_non_aggr_func___LOWER	
0	675 (68%)
1	261 (26%)
2	49 (4.9%)
3	11 (1.1%)
4	4 (0.4%)
SELECT_n_of_non_aggr_func___UPPER	
0	694 (69%)
1	252 (25%)
2	44 (4.4%)
3	5 (0.5%)
4	3 (0.3%)
5	1 (0.1%)
6	1 (0.1%)
SELECT_n_of_non_aggr_func___DOW	
0	890 (89%)

Query parameter or value	Descriptive statistics
1	92 (9.2%)
2	15 (1.5%)
3	2 (0.2%)
4	1 (0.1%)
SELECT_n_of_non_aggr_func___MONTH	
0	861 (86%)
1	103 (10%)
2	29 (2.9%)
3	4 (0.4%)
4	2 (0.2%)
5	1 (0.1%)
SELECT_n_of_non_aggr_func___TRUNC	
0	940 (94%)
1	53 (5.3%)
2	5 (0.5%)
3	2 (0.2%)
SELECT_n_of_non_aggr_func___FLOOR	
0	948 (95%)
1	45 (4.5%)
2	6 (0.6%)
3	1 (0.1%)
SELECT_n_of_non_aggr_func___ROUND	
0	940 (94%)
1	52 (5.2%)
2	8 (0.8%)
SELECT_n_of_non_aggr_func___YEAR	
0	875 (88%)
1	101 (10%)
2	18 (1.8%)
3	3 (0.3%)
4	2 (0.2%)
5	1 (0.1%)
SELECT_n_of_all_non_aggr_func	[0.00, 2.00, 48.00] 3.14 / 4.16
SELECT_n_of_aggr_func___COUNT_DISTINCT	[0.00, 0.00, 9.00] 0.71 / 1.51
SELECT_n_of_aggr_func___MIN	[0.00, 0.00, 10.00] 0.66 / 1.52
SELECT_n_of_aggr_func___COUNT	
0	769 (77%)
1	82 (8.2%)
2	56 (5.6%)
3	32 (3.2%)
4	25 (2.5%)
5	19 (1.9%)
6	9 (0.9%)
7	5 (0.5%)
8	3 (0.3%)
SELECT_n_of_aggr_func___AVG	

Query parameter or value	Descriptive statistics
0	935 (94%)
1	54 (5.4%)
2	7 (0.7%)
3	4 (0.4%)
SELECT_n_of_aggr_func___MAX	[0.00, 0.00, 12.00] 0.58 / 1.39
SELECT_n_of_aggr_func___SUM	
0	944 (94%)
1	43 (4.3%)
2	12 (1.2%)
3	1 (0.1%)
SELECT_n_of_all_aggr_func	[0.00, 2.00, 12.00] 2.70 / 2.27
FROM_n_of_join_paths	
1	326 (33%)
2	347 (35%)
3	327 (33%)
FROM_n_of_super_joins___RIGHT	
0	761 (76%)
1	226 (23%)
2	13 (1.3%)
FROM_n_of_super_joins___LEFT	
0	769 (77%)
1	211 (21%)
2	20 (2.0%)
FROM_n_of_super_joins___FULL	
0	764 (76%)
1	210 (21%)
2	26 (2.6%)
FROM_n_of_joins___INNER	
0	235 (24%)
1	266 (27%)
2	234 (23%)
3	139 (14%)
4	82 (8.2%)
5	28 (2.8%)
6	12 (1.2%)
7	3 (0.3%)
8	1 (0.1%)
FROM_n_of_joins___RIGHT	
0	247 (25%)
1	259 (26%)
2	226 (23%)
3	138 (14%)
4	82 (8.2%)
5	35 (3.5%)
6	7 (0.7%)
7	5 (0.5%)

Query parameter or value	Descriptive statistics
8	1 (0.1%)
FROM_n_of_processed_rows	[5, 68,375, 230,055] 65,762 / 60,094
WHERE_n_of_predicates	[0.00, 2.00, 10.00] 2.80 / 2.21
WHERE_n_of_attribs_of_type___character_varying	
0	464 (46%)
1	306 (31%)
2	148 (15%)
3	57 (5.7%)
4	24 (2.4%)
5	1 (0.1%)
WHERE_n_of_attribs_of_type___integer	
0	428 (43%)
1	336 (34%)
2	158 (16%)
3	56 (5.6%)
4	16 (1.6%)
5	4 (0.4%)
6	2 (0.2%)
WHERE_n_of_attribs_of_type___date	
0	828 (83%)
1	146 (15%)
2	25 (2.5%)
3	1 (0.1%)
WHERE_n_of_attribs_of_type___numeric	
0	632 (63%)
1	254 (25%)
2	97 (9.7%)
3	13 (1.3%)
4	3 (0.3%)
5	1 (0.1%)
WHERE_n_of_attribs_of_type___character	
0	746 (75%)
1	209 (21%)
2	38 (3.8%)
3	7 (0.7%)
WHERE_n_of_pkey_attribs	
0	591 (59%)
1	318 (32%)
2	74 (7.4%)
3	15 (1.5%)
4	2 (0.2%)
WHERE_n_of_connect_OR	
0	475 (48%)
1	158 (16%)
2	127 (13%)
3	98 (9.8%)

Query parameter or value	Descriptive statistics
4	77 (7.7%)
5	39 (3.9%)
6	21 (2.1%)
7	5 (0.5%)
WHERE_n_of_operators___greater_or_less	
0	407 (41%)
1	296 (30%)
2	173 (17%)
3	81 (8.1%)
4	31 (3.1%)
5	9 (0.9%)
6	3 (0.3%)
WHERE_n_of_operators___in	
0	625 (63%)
1	266 (27%)
2	80 (8.0%)
3	28 (2.8%)
4	1 (0.1%)
WHERE_n_of_operators___like	
0	840 (84%)
1	152 (15%)
2	7 (0.7%)
3	1 (0.1%)
WHERE_n_of_operators___between	
0	617 (62%)
1	283 (28%)
2	75 (7.5%)
3	20 (2.0%)
4	4 (0.4%)
5	1 (0.1%)
WHERE_n_of_non_aggr_func___ROUND	
0	959 (96%)
1	40 (4.0%)
2	1 (0.1%)
WHERE_n_of_non_aggr_func___FLOOR	
0	970 (97%)
1	30 (3.0%)
WHERE_n_of_non_aggr_func___YEAR	
0	971 (97%)
1	28 (2.8%)
2	1 (0.1%)
WHERE_n_of_non_aggr_func___SQRT	
0	905 (91%)
1	89 (8.9%)
2	5 (0.5%)
3	1 (0.1%)

Query parameter or value	Descriptive statistics
WHERE_n_of_non_aggr_func___DOW	
0	976 (98%)
1	24 (2.4%)
WHERE_n_of_non_aggr_func___LOG	
0	941 (94%)
1	56 (5.6%)
2	3 (0.3%)
WHERE_n_of_non_aggr_func___MONTH	
0	967 (97%)
1	33 (3.3%)
WHERE_n_of_non_aggr_func___ABS	
0	958 (96%)
1	42 (4.2%)
WHERE_n_of_non_aggr_func___TRUNC	
0	972 (97%)
1	28 (2.8%)
WHERE_n_of_non_aggr_func___DAY	
0	983 (98%)
1	17 (1.7%)
WHERE_n_of_all_non_aggr_func	
0	698 (70%)
1	212 (21%)
2	73 (7.3%)
3	16 (1.6%)
4	1 (0.1%)
GROUP_BY_n_of_columns	[0.00, 2.00, 9.00] 2.43 / 2.13
HAVING_n_of_main_predicates	[0.00, 4.00, 9.00] 3.39 / 2.54
HAVING_n_of_main_predicates___non_scalar_subquery	
0	422 (42%)
1	200 (20%)
2	187 (19%)
3	191 (19%)
HAVING_n_of_main_predicates___scalar_subquery	
0	440 (44%)
1	192 (19%)
2	181 (18%)
3	187 (19%)
HAVING_n_of_subqueries___non_scalar_subquery	
0	422 (42%)
1	200 (20%)
2	187 (19%)
3	191 (19%)
HAVING_n_of_subqueries___scalar_subquery	[0.0, 1.0, 23.0] 2.3 / 3.6
HAVING_n_of_processed_rows_by_subqueries	[0, 49,590, 3,818,100] 237,950 / 415,849
ORDER_BY_n_of_columns	
0	297 (30%)

Query parameter or value	Descriptive statistics
1	390 (39%)
2	218 (22%)
3	72 (7.2%)
4	12 (1.2%)
5	6 (0.6%)
6	5 (0.5%)
limit	[3, 481, 1,000] 491 / 285
offset	[0, 3, 999] 252 / 323