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

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## Scenario: 1-6jp_rjjp__g__h0ss_h0nss

## Scale factor: 10 GB

## The 1000-query pack was generated on: 2023-11-12

## 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, 184] 16 / 24
SELECT_n_of_non_aggr_func___ABS	
0	906 (91%)
1	78 (7.8%)
2	13 (1.3%)
3	2 (0.2%)
5	1 (0.1%)
SELECT_n_of_non_aggr_func___DAY	
0	885 (89%)
1	84 (8.4%)
2	22 (2.2%)
3	3 (0.3%)
4	1 (0.1%)
5	5 (0.5%)
SELECT_n_of_non_aggr_func___DOW	

Query parameter or value	Descriptive statistics
0	855 (86%)
1	105 (11%)
2	26 (2.6%)
3	8 (0.8%)
4	3 (0.3%)
5	3 (0.3%)
SELECT_n_of_non_aggr_func___LOG	
0	867 (87%)
1	107 (11%)
2	13 (1.3%)
3	7 (0.7%)
4	4 (0.4%)
5	2 (0.2%)
SELECT_n_of_non_aggr_func___LOWER	
0	638 (64%)
1	234 (23%)
2	88 (8.8%)
3	17 (1.7%)
4	9 (0.9%)
5	7 (0.7%)
6	3 (0.3%)
7	2 (0.2%)
9	2 (0.2%)
SELECT_n_of_non_aggr_func___LTRIM	[0.00, 0.00, 11.00] 0.62 / 1.03
SELECT_n_of_non_aggr_func___MONTH	[0.00, 0.00, 10.00] 0.32 / 0.90
SELECT_n_of_non_aggr_func___ROUND	
0	930 (93%)
1	61 (6.1%)
2	6 (0.6%)
3	3 (0.3%)
SELECT_n_of_non_aggr_func___RTRIM	[0.00, 0.00, 10.00] 0.63 / 1.11
SELECT_n_of_non_aggr_func___SQRT	
0	807 (81%)
1	132 (13%)
2	31 (3.1%)
3	13 (1.3%)
4	9 (0.9%)
5	7 (0.7%)
6	1 (0.1%)
SELECT_n_of_non_aggr_func___SUBSTR	
0	625 (63%)
1	256 (26%)
11	1 (0.1%)
2	71 (7.1%)
3	27 (2.7%)
4	9 (0.9%)

Query parameter or value	Descriptive statistics
5	7 (0.7%)
7	3 (0.3%)
9	1 (0.1%)
SELECT_n_of_non_aggr_func___TRUNC	
0	919 (92%)
1	66 (6.6%)
2	11 (1.1%)
3	4 (0.4%)
SELECT_n_of_non_aggr_func___UPPER	[0.00, 0.00, 10.00] 0.61 / 1.11
SELECT_n_of_non_aggr_func___YEAR	
0	822 (82%)
1	122 (12%)
2	33 (3.3%)
3	11 (1.1%)
4	7 (0.7%)
5	2 (0.2%)
6	1 (0.1%)
7	2 (0.2%)
SELECT_n_of_non_aggr_func___FLOOR	
0	909 (91%)
1	77 (7.7%)
2	9 (0.9%)
3	4 (0.4%)
4	1 (0.1%)
SELECT_n_of_all_non_aggr_func	[0.0, 3.0, 74.0] 4.9 / 7.7
SELECT_n_of_aggr_func___MIN	[0.00, 0.00, 13.00] 0.84 / 1.96
SELECT_n_of_aggr_func___MAX	[0.00, 0.00, 11.00] 0.86 / 1.92
SELECT_n_of_aggr_func___COUNT	[0.00, 0.00, 13.00] 0.92 / 2.09
SELECT_n_of_aggr_func___SUM	
0	917 (92%)
1	45 (4.5%)
2	25 (2.5%)
3	12 (1.2%)
4	1 (0.1%)
SELECT_n_of_aggr_func___COUNT_DISTINCT	[0.00, 0.00, 11.00] 0.79 / 1.85
SELECT_n_of_aggr_func___AVG	
0	935 (94%)
1	47 (4.7%)
2	12 (1.2%)
3	5 (0.5%)
4	1 (0.1%)
SELECT_n_of_all_aggr_func	[0.0, 3.0, 15.0] 3.6 / 3.2
FROM_n_of_join_paths	
1	169 (17%)
2	171 (17%)
3	177 (18%)

Query parameter or value	Descriptive statistics
4	171 (17%)
5	151 (15%)
6	161 (16%)
FROM_n_of_super_joins___LEFT	
0	559 (56%)
1	316 (32%)
2	101 (10%)
3	22 (2.2%)
4	2 (0.2%)
FROM_n_of_super_joins___RIGHT	
0	556 (56%)
1	302 (30%)
2	114 (11%)
3	24 (2.4%)
4	4 (0.4%)
FROM_n_of_super_joins___FULL	
0	552 (55%)
1	313 (31%)
2	100 (10%)
3	31 (3.1%)
4	4 (0.4%)
FROM_n_of_joins___INNER	[0.00, 3.00, 13.00] 3.34 / 2.42
FROM_n_of_joins___RIGHT	[0.00, 3.00, 13.00] 3.37 / 2.56
FROM_n_of_processed_rows	[5, 96,182,398, 444,380,565] 121,975,035 / 96,136,908
WHERE_n_of_predicates	[0.00, 3.00, 12.00] 3.91 / 3.00
WHERE_n_of_attribs_of_type___integer	
0	357 (36%)
1	281 (28%)
2	185 (19%)
3	110 (11%)
4	45 (4.5%)
5	16 (1.6%)
6	3 (0.3%)
7	3 (0.3%)
WHERE_n_of_attribs_of_type___character	
0	645 (65%)
1	257 (26%)
2	74 (7.4%)
3	22 (2.2%)
4	2 (0.2%)
WHERE_n_of_attribs_of_type___character_varying	
0	371 (37%)
1	275 (28%)
2	181 (18%)
3	109 (11%)
4	42 (4.2%)

Query parameter or value	Descriptive statistics
5	20 (2.0%)
6	2 (0.2%)
WHERE_n_of_attribs_of_type___date	
0	774 (77%)
1	184 (18%)
2	35 (3.5%)
3	6 (0.6%)
4	1 (0.1%)
WHERE_n_of_attribs_of_type___numeric	
0	566 (57%)
1	294 (29%)
2	99 (9.9%)
3	31 (3.1%)
4	6 (0.6%)
5	3 (0.3%)
7	1 (0.1%)
WHERE_n_of_pkey_attribs	
0	524 (52%)
1	300 (30%)
2	118 (12%)
3	50 (5.0%)
4	6 (0.6%)
5	2 (0.2%)
WHERE_n_of_connect_OR	[0.00, 1.00, 11.00] 2.26 / 2.47
WHERE_n_of_operators___in	
0	540 (54%)
1	275 (28%)
2	138 (14%)
3	37 (3.7%)
4	8 (0.8%)
5	2 (0.2%)
WHERE_n_of_operators___between	
0	516 (52%)
1	305 (31%)
2	127 (13%)
3	42 (4.2%)
4	7 (0.7%)
5	3 (0.3%)
WHERE_n_of_operators___greater_or_less	[0.00, 1.00, 9.00] 1.55 / 1.56
WHERE_n_of_operators___like	
0	797 (80%)
1	170 (17%)
2	29 (2.9%)
3	3 (0.3%)
4	1 (0.1%)
WHERE_n_of_non_aggr_func___LOG	

Query parameter or value	Descriptive statistics
0	921 (92%)
1	75 (7.5%)
2	4 (0.4%)
WHERE_n_of_non_aggr_func___DAY	
0	964 (96%)
1	36 (3.6%)
WHERE_n_of_non_aggr_func___FLOOR	
0	954 (95%)
1	45 (4.5%)
2	1 (0.1%)
WHERE_n_of_non_aggr_func___TRUNC	
0	965 (97%)
1	32 (3.2%)
2	2 (0.2%)
4	1 (0.1%)
WHERE_n_of_non_aggr_func___ROUND	
0	967 (97%)
1	33 (3.3%)
WHERE_n_of_non_aggr_func___SQRT	
0	876 (88%)
1	110 (11%)
2	13 (1.3%)
3	1 (0.1%)
WHERE_n_of_non_aggr_func___DOW	
0	962 (96%)
1	35 (3.5%)
2	3 (0.3%)
WHERE_n_of_non_aggr_func___YEAR	
0	954 (95%)
1	45 (4.5%)
2	1 (0.1%)
WHERE_n_of_non_aggr_func___ABS	
0	957 (96%)
1	42 (4.2%)
2	1 (0.1%)
WHERE_n_of_non_aggr_func___MONTH	
0	967 (97%)
1	33 (3.3%)
WHERE_n_of_all_non_aggr_func	
0	626 (63%)
1	249 (25%)
2	93 (9.3%)
3	23 (2.3%)
4	6 (0.6%)
5	3 (0.3%)
GROUP_BY_n_of_columns	[0.00, 3.00, 12.00] 3.14 / 2.94

Query parameter or value	**Descriptive statistics**
HAVING_n_of_main_predicates	
0	446 (45%)
1	192 (19%)
2	169 (17%)
3	193 (19%)
ORDER_BY_n_of_columns	
0	312 (31%)
1	327 (33%)
2	220 (22%)
3	101 (10%)
4	19 (1.9%)
5	9 (0.9%)
6	6 (0.6%)
7	5 (0.5%)
8	1 (0.1%)
limit	[2, 501, 999] 500 / 279
offset	[0, 0, 1,000] 246 / 323