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

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## Scenario: 1-6jp_ujjp__g__h0ss_h0nss

## Scale factor: 10 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, 178] 17 / 25
SELECT_n_of_non_aggr_func___LTRIM	
0	590 (59%)
1	273 (27%)
2	77 (7.7%)
3	36 (3.6%)
4	11 (1.1%)
5	4 (0.4%)
6	5 (0.5%)
7	3 (0.3%)
9	1 (0.1%)
SELECT_n_of_non_aggr_func___RTRIM	
0	624 (62%)
1	249 (25%)
2	70 (7.0%)

Query parameter or value	Descriptive statistics
3	29 (2.9%)
4	16 (1.6%)
5	4 (0.4%)
6	4 (0.4%)
7	2 (0.2%)
9	2 (0.2%)
SELECT_n_of_non_aggr_func___SUBSTR	
0	590 (59%)
1	268 (27%)
10	1 (0.1%)
2	92 (9.2%)
3	27 (2.7%)
4	6 (0.6%)
5	7 (0.7%)
6	8 (0.8%)
8	1 (0.1%)
SELECT_n_of_non_aggr_func___UPPER	[0.00, 0.00, 9.00] 0.60 / 1.09
SELECT_n_of_non_aggr_func___LOWER	[0.00, 0.00, 12.00] 0.68 / 1.17
SELECT_n_of_non_aggr_func___DAY	
0	876 (88%)
1	88 (8.8%)
2	21 (2.1%)
3	6 (0.6%)
4	5 (0.5%)
5	2 (0.2%)
6	2 (0.2%)
SELECT_n_of_non_aggr_func___FLOOR	
0	900 (90%)
1	74 (7.4%)
2	17 (1.7%)
3	4 (0.4%)
4	5 (0.5%)
SELECT_n_of_non_aggr_func___MONTH	[0.00, 0.00, 11.00] 0.39 / 1.07
SELECT_n_of_non_aggr_func___ABS	
0	915 (92%)
1	69 (6.9%)
2	11 (1.1%)
3	2 (0.2%)
4	3 (0.3%)
SELECT_n_of_non_aggr_func___DOW	
0	843 (84%)
1	109 (11%)
2	26 (2.6%)
3	10 (1.0%)
4	9 (0.9%)
5	2 (0.2%)

Query parameter or value	Descriptive statistics
7	1 (0.1%)
SELECT_n_of_non_aggr_func___YEAR	
0	815 (82%)
1	115 (12%)
2	35 (3.5%)
3	16 (1.6%)
4	9 (0.9%)
5	3 (0.3%)
6	6 (0.6%)
7	1 (0.1%)
SELECT_n_of_non_aggr_func___ROUND	
0	910 (91%)
1	75 (7.5%)
2	13 (1.3%)
3	1 (0.1%)
4	1 (0.1%)
SELECT_n_of_non_aggr_func___LOG	
0	852 (85%)
1	101 (10%)
2	29 (2.9%)
3	10 (1.0%)
4	4 (0.4%)
5	3 (0.3%)
6	1 (0.1%)
SELECT_n_of_non_aggr_func___SQRT	
0	781 (78%)
1	154 (15%)
2	29 (2.9%)
3	17 (1.7%)
4	12 (1.2%)
5	6 (0.6%)
7	1 (0.1%)
SELECT_n_of_non_aggr_func___TRUNC	
0	893 (89%)
1	91 (9.1%)
2	10 (1.0%)
3	5 (0.5%)
4	1 (0.1%)
SELECT_n_of_all_non_aggr_func	[0, 3, 80] 5 / 9
SELECT_n_of_aggr_func___MAX	[0.00, 0.00, 13.00] 0.82 / 1.96
SELECT_n_of_aggr_func___MIN	[0.00, 0.00, 13.00] 0.86 / 1.93
SELECT_n_of_aggr_func___AVG	
0	936 (94%)
1	44 (4.4%)
2	16 (1.6%)
3	3 (0.3%)

Query parameter or value	Descriptive statistics
4	1 (0.1%)
SELECT_n_of_aggr_func___COUNT_DISTINCT	[0.00, 0.00, 12.00] 0.74 / 1.78
SELECT_n_of_aggr_func___COUNT	[0.00, 0.00, 15.00] 1.01 / 2.18
SELECT_n_of_aggr_func___SUM	
0	947 (95%)
1	32 (3.2%)
2	10 (1.0%)
3	5 (0.5%)
4	5 (0.5%)
5	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	153 (15%)
2	182 (18%)
3	158 (16%)
4	172 (17%)
5	157 (16%)
6	178 (18%)
FROM_n_of_super_joins___FULL	
0	547 (55%)
1	305 (31%)
2	112 (11%)
3	31 (3.1%)
4	5 (0.5%)
FROM_n_of_super_joins___LEFT	
0	560 (56%)
1	314 (31%)
2	99 (9.9%)
3	24 (2.4%)
4	3 (0.3%)
FROM_n_of_super_joins___RIGHT	
0	538 (54%)
1	323 (32%)
2	114 (11%)
3	24 (2.4%)
4	1 (0.1%)
FROM_n_of_joins___INNER	[0.00, 3.00, 13.00] 3.32 / 2.59
FROM_n_of_joins___RIGHT	[0.00, 3.00, 13.00] 3.37 / 2.51
FROM_n_of_processed_rows	[5, 95,982,627, 458,882,983] 125,282,214 / 99,145,469
WHERE_n_of_predicates	[0.00, 3.00, 13.00] 3.80 / 2.93
WHERE_n_of_attribs_of_type___character_varying	
0	380 (38%)
1	284 (28%)
2	177 (18%)
3	96 (9.6%)
4	46 (4.6%)

Query parameter or value	Descriptive statistics
5	14 (1.4%)
6	3 (0.3%)
WHERE_n_of_attribs_of_type___integer	
0	385 (39%)
1	285 (29%)
2	175 (18%)
3	94 (9.4%)
4	47 (4.7%)
5	13 (1.3%)
6	1 (0.1%)
WHERE_n_of_attribs_of_type___character	
0	661 (66%)
1	239 (24%)
2	77 (7.7%)
3	22 (2.2%)
4	1 (0.1%)
WHERE_n_of_attribs_of_type___date	
0	761 (76%)
1	197 (20%)
2	35 (3.5%)
3	7 (0.7%)
WHERE_n_of_attribs_of_type___numeric	
0	540 (54%)
1	307 (31%)
2	101 (10%)
3	43 (4.3%)
4	7 (0.7%)
5	2 (0.2%)
WHERE_n_of_pkey_attribs	
0	553 (55%)
1	288 (29%)
2	113 (11%)
3	41 (4.1%)
4	5 (0.5%)
WHERE_n_of_connect_OR	[0.00, 1.00, 10.00] 2.19 / 2.37
WHERE_n_of_operators___greater_or_less	
0	353 (35%)
1	271 (27%)
2	177 (18%)
3	98 (9.8%)
4	52 (5.2%)
5	35 (3.5%)
6	9 (0.9%)
7	3 (0.3%)
8	2 (0.2%)
WHERE_n_of_operators___in	

Query parameter or value	Descriptive statistics
0	533 (53%)
1	273 (27%)
2	135 (14%)
3	44 (4.4%)
4	13 (1.3%)
5	1 (0.1%)
6	1 (0.1%)
WHERE_n_of_operators___like	
0	767 (77%)
1	192 (19%)
2	34 (3.4%)
3	6 (0.6%)
4	1 (0.1%)
WHERE_n_of_operators___between	
0	535 (54%)
1	284 (28%)
2	124 (12%)
3	44 (4.4%)
4	8 (0.8%)
5	4 (0.4%)
6	1 (0.1%)
WHERE_n_of_non_aggr_func___SQRT	
0	863 (86%)
1	124 (12%)
2	11 (1.1%)
3	2 (0.2%)
WHERE_n_of_non_aggr_func___DAY	
0	947 (95%)
1	53 (5.3%)
WHERE_n_of_non_aggr_func___YEAR	
0	959 (96%)
1	41 (4.1%)
WHERE_n_of_non_aggr_func___TRUNC	
0	950 (95%)
1	50 (5.0%)
WHERE_n_of_non_aggr_func___LOG	
0	908 (91%)
1	85 (8.5%)
2	5 (0.5%)
3	2 (0.2%)
WHERE_n_of_non_aggr_func___DOW	
0	960 (96%)
1	40 (4.0%)
WHERE_n_of_non_aggr_func___ROUND	
0	955 (96%)
1	42 (4.2%)

Query parameter or value	Descriptive statistics
2	3 (0.3%)
WHERE_n_of_non_aggr_func___ABS	
0	957 (96%)
1	42 (4.2%)
2	1 (0.1%)
WHERE_n_of_non_aggr_func___FLOOR	
0	964 (96%)
1	33 (3.3%)
2	3 (0.3%)
WHERE_n_of_non_aggr_func___MONTH	
0	970 (97%)
1	30 (3.0%)
WHERE_n_of_all_non_aggr_func	
0	588 (59%)
1	275 (28%)
2	96 (9.6%)
3	34 (3.4%)
4	6 (0.6%)
5	1 (0.1%)
GROUP_BY_n_of_columns	[0.00, 2.00, 12.00] 3.10 / 2.87
HAVING_n_of_main_predicates	
0	450 (45%)
1	199 (20%)
2	170 (17%)
3	181 (18%)
ORDER_BY_n_of_columns	
0	266 (27%)
1	356 (36%)
2	233 (23%)
3	102 (10%)
4	29 (2.9%)
5	8 (0.8%)
6	5 (0.5%)
8	1 (0.1%)
limit	[2, 511, 1,000] 504 / 290
offset	[0, 66, 1,000] 285 / 340