

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

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## Scenario: 1-6jp_rjpp__g__h0-3ss_h0nss

## Scale factor: 50 GB

## The 1000-query pack was generated on: 2023-11-07

## 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, 8, 171] 15 / 24
SELECT_n_of_non_aggr_func__ABS	
0	931 (93%)
1	55 (5.5%)
2	9 (0.9%)
3	3 (0.3%)
4	2 (0.2%)
SELECT_n_of_non_aggr_func__DAY	
0	878 (88%)
1	89 (8.9%)
2	19 (1.9%)
3	5 (0.5%)
4	8 (0.8%)
5	1 (0.1%)
SELECT_n_of_non_aggr_func__DOW	

Query parameter or value	Descriptive statistics
0	879 (88%)
1	85 (8.5%)
2	17 (1.7%)
3	9 (0.9%)
4	6 (0.6%)
5	4 (0.4%)
SELECT_n_of_non_aggr_func__FLOOR	
0	923 (92%)
1	65 (6.5%)
2	10 (1.0%)
3	1 (0.1%)
5	1 (0.1%)
SELECT_n_of_non_aggr_func__LOG	
0	863 (86%)
1	95 (9.5%)
2	24 (2.4%)
3	11 (1.1%)
4	4 (0.4%)
5	1 (0.1%)
6	1 (0.1%)
7	1 (0.1%)
SELECT_n_of_non_aggr_func__LOWER	[0.00, 0.00, 10.00] 0.59 / 1.06
SELECT_n_of_non_aggr_func__LTRIM	[0.00, 0.00, 9.00] 0.58 / 1.02
SELECT_n_of_non_aggr_func__MONTH	[0.00, 0.00, 9.00] 0.34 / 1.00
SELECT_n_of_non_aggr_func__ROUND	
0	920 (92%)
1	65 (6.5%)
2	12 (1.2%)
3	1 (0.1%)
4	2 (0.2%)
SELECT_n_of_non_aggr_func__RTRIM	[0.00, 0.00, 11.00] 0.63 / 1.11
SELECT_n_of_non_aggr_func__SQRT	
0	818 (82%)
1	125 (13%)
2	32 (3.2%)
3	7 (0.7%)
4	8 (0.8%)
5	6 (0.6%)
6	1 (0.1%)
7	2 (0.2%)
8	1 (0.1%)
SELECT_n_of_non_aggr_func__SUBSTR	[0.00, 0.00, 14.00] 0.60 / 1.09
SELECT_n_of_non_aggr_func__UPPER	[0.00, 0.00, 10.00] 0.60 / 1.14
SELECT_n_of_non_aggr_func__YEAR	
0	834 (83%)
1	110 (11%)

Query parameter or value	Descriptive statistics
2	31 (3.1%)
3	9 (0.9%)
4	9 (0.9%)
5	2 (0.2%)
6	3 (0.3%)
8	2 (0.2%)
SELECT_n_of_non_aggr_func__TRUNC	
0	926 (93%)
1	59 (5.9%)
2	9 (0.9%)
3	5 (0.5%)
4	1 (0.1%)
SELECT_n_of_all_non_aggr_func	[0.0, 3.0, 70.0] 4.9 / 8.4
SELECT_n_of_aggr_func__COUNT	[0.00, 0.00, 13.00] 0.94 / 2.09
SELECT_n_of_aggr_func__MIN	[0.00, 0.00, 11.00] 0.85 / 1.89
SELECT_n_of_aggr_func__COUNT_DISTINCT	[0.00, 0.00, 12.00] 0.80 / 1.84
SELECT_n_of_aggr_func__MAX	[0.00, 0.00, 14.00] 0.76 / 1.75
SELECT_n_of_aggr_func__AVG	
0	940 (94%)
1	46 (4.6%)
2	11 (1.1%)
3	2 (0.2%)
4	1 (0.1%)
SELECT_n_of_aggr_func__SUM	
0	931 (93%)
1	47 (4.7%)
2	13 (1.3%)
3	6 (0.6%)
4	3 (0.3%)
SELECT_n_of_all_aggr_func	[0.00, 3.00, 14.00] 3.53 / 3.08
FROM_n_of_join_paths	
1	168 (17%)
2	170 (17%)
3	155 (16%)
4	170 (17%)
5	162 (16%)
6	175 (18%)
FROM_n_of_super_joins__LEFT	
0	552 (55%)
1	303 (30%)
2	114 (11%)
3	22 (2.2%)
4	9 (0.9%)
FROM_n_of_super_joins__RIGHT	
0	549 (55%)
1	308 (31%)

Query parameter or value	Descriptive statistics
2	119 (12%)
3	23 (2.3%)
4	1 (0.1%)
FROM_n_of_super_joins___FULL	
0	565 (57%)
1	288 (29%)
2	120 (12%)
3	25 (2.5%)
4	1 (0.1%)
5	1 (0.1%)
FROM_n_of_joins___INNER	[0.00, 3.00, 12.00] 3.25 / 2.47
FROM_n_of_joins___RIGHT	[0.00, 3.00, 14.00] 3.31 / 2.51
FROM_n_of_processed_rows	[5, 461,963,033, 2,173,024,836] 595,508,361 / 494,625,937
WHERE_n_of_predicates	[0.0, 3.0, 12.0] 4.0 / 3.1
WHERE_n_of_attribs_of_type___date	
0	772 (77%)
1	174 (17%)
2	44 (4.4%)
3	9 (0.9%)
4	1 (0.1%)
WHERE_n_of_attribs_of_type___character	
0	645 (65%)
1	251 (25%)
2	79 (7.9%)
3	19 (1.9%)
4	6 (0.6%)
WHERE_n_of_attribs_of_type___character_varying	
0	353 (35%)
1	281 (28%)
2	185 (19%)
3	102 (10%)
4	50 (5.0%)
5	19 (1.9%)
6	9 (0.9%)
8	1 (0.1%)
WHERE_n_of_attribs_of_type___integer	
0	362 (36%)
1	297 (30%)
2	179 (18%)
3	88 (8.8%)
4	46 (4.6%)
5	18 (1.8%)
6	9 (0.9%)
7	1 (0.1%)
WHERE_n_of_attribs_of_type___numeric	

Query parameter or value	Descriptive statistics
0	566 (57%)
1	280 (28%)
2	108 (11%)
3	33 (3.3%)
4	11 (1.1%)
5	2 (0.2%)
WHERE_n_of_pkey_attris	
0	538 (54%)
1	306 (31%)
2	102 (10%)
3	41 (4.1%)
4	13 (1.3%)
WHERE_n_of_connect_OR	[0.00, 2.00, 11.00] 2.33 / 2.54
WHERE_n_of_operators___greater_or_less	
0	307 (31%)
1	283 (28%)
2	176 (18%)
3	115 (12%)
4	61 (6.1%)
5	36 (3.6%)
6	15 (1.5%)
7	6 (0.6%)
8	1 (0.1%)
WHERE_n_of_operators___between	
0	529 (53%)
1	284 (28%)
2	132 (13%)
3	42 (4.2%)
4	8 (0.8%)
5	4 (0.4%)
6	1 (0.1%)
WHERE_n_of_operators___in	
0	538 (54%)
1	278 (28%)
2	126 (13%)
3	43 (4.3%)
4	12 (1.2%)
5	2 (0.2%)
6	1 (0.1%)
WHERE_n_of_operators___like	
0	783 (78%)
1	175 (18%)
2	37 (3.7%)
3	5 (0.5%)
WHERE_n_of_non_aggr_func___LOG	
0	920 (92%)

Query parameter or value	Descriptive statistics
1	76 (7.6%)
2	3 (0.3%)
3	1 (0.1%)
WHERE_n_of_non_aggr_func__MONTH	
0	959 (96%)
1	39 (3.9%)
2	2 (0.2%)
WHERE_n_of_non_aggr_func__SQRT	
0	878 (88%)
1	110 (11%)
2	11 (1.1%)
3	1 (0.1%)
WHERE_n_of_non_aggr_func__TRUNC	
0	956 (96%)
1	42 (4.2%)
2	2 (0.2%)
WHERE_n_of_non_aggr_func__DAY	
0	960 (96%)
1	39 (3.9%)
2	1 (0.1%)
WHERE_n_of_non_aggr_func__ROUND	
0	954 (95%)
1	45 (4.5%)
3	1 (0.1%)
WHERE_n_of_non_aggr_func__FLOOR	
0	966 (97%)
1	33 (3.3%)
2	1 (0.1%)
WHERE_n_of_non_aggr_func__DOW	
0	967 (97%)
1	32 (3.2%)
2	1 (0.1%)
WHERE_n_of_non_aggr_func__ABS	
0	964 (96%)
1	35 (3.5%)
2	1 (0.1%)
WHERE_n_of_non_aggr_func__YEAR	
0	954 (95%)
1	46 (4.6%)
WHERE_n_of_all_non_aggr_func	
0	607 (61%)
1	276 (28%)
2	86 (8.6%)
3	24 (2.4%)
4	5 (0.5%)
5	2 (0.2%)

Query parameter or value	Descriptive statistics
GROUP_BY_n_of_columns	[0.00, 2.00, 12.00] 2.97 / 2.81
HAVING_n_of_main_predicates	
0	293 (29%)
1	94 (9.4%)
2	160 (16%)
3	180 (18%)
4	156 (16%)
5	73 (7.3%)
6	44 (4.4%)
HAVING_n_of_main_predicates__scalar_subquery	
0	428 (43%)
1	209 (21%)
2	178 (18%)
3	185 (19%)
HAVING_n_of_subqueries__scalar_subquery	[0.0, 1.0, 21.0] 2.4 / 3.6
HAVING_n_of_processed_rows_by_subqueries	[0, 81,480,770, 29,418,811,100] 1,466,968,180 / 3,056,255,540
ORDER_BY_n_of_columns	
0	289 (29%)
1	319 (32%)
2	256 (26%)
3	92 (9.2%)
4	25 (2.5%)
5	13 (1.3%)
6	3 (0.3%)
7	1 (0.1%)
8	2 (0.2%)
limit	[1, 514, 997] 509 / 285
offset	[0, 62, 998] 274 / 332