

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

```
## Scenario: 1-3jp_ujpp__g__h0-3ss_h0nss

## Scale factor: 1 GB

## The 1000-query pack was generated on: 2023-11-09

## 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, 107] 10 / 13
SELECT_n_of_non_aggr_func__RTRIM	
0	693 (69%)
1	240 (24%)
2	51 (5.1%)
3	12 (1.2%)
4	3 (0.3%)
5	1 (0.1%)
SELECT_n_of_non_aggr_func__UPPER	
0	659 (66%)
1	271 (27%)
2	47 (4.7%)
3	13 (1.3%)
4	7 (0.7%)
5	2 (0.2%)

Query parameter or value	Descriptive statistics
8	1 (0.1%)
SELECT__n_of__non__aggr__func__LOWER	
0	703 (70%)
1	238 (24%)
2	38 (3.8%)
3	18 (1.8%)
4	1 (0.1%)
5	2 (0.2%)
SELECT__n_of__non__aggr__func__LTRIM	
0	701 (70%)
1	232 (23%)
12	1 (0.1%)
2	53 (5.3%)
3	7 (0.7%)
4	3 (0.3%)
5	1 (0.1%)
7	1 (0.1%)
8	1 (0.1%)
SELECT__n_of__non__aggr__func__SUBSTR	
0	681 (68%)
1	236 (24%)
2	61 (6.1%)
3	13 (1.3%)
4	4 (0.4%)
5	5 (0.5%)
SELECT__n_of__non__aggr__func__TRUNC	
0	954 (95%)
1	43 (4.3%)
2	3 (0.3%)
SELECT__n_of__non__aggr__func__LOG	
0	888 (89%)
1	98 (9.8%)
2	6 (0.6%)
3	5 (0.5%)
4	2 (0.2%)
5	1 (0.1%)
SELECT__n_of__non__aggr__func__ROUND	
0	947 (95%)
1	49 (4.9%)
2	3 (0.3%)
3	1 (0.1%)
SELECT__n_of__non__aggr__func__SQRT	
0	834 (83%)
1	139 (14%)
2	22 (2.2%)
3	4 (0.4%)

Query parameter or value	Descriptive statistics
4	1 (0.1%)
SELECT__n_of__non__aggr__func__DOW	
0	901 (90%)
1	82 (8.2%)
2	13 (1.3%)
3	4 (0.4%)
SELECT__n_of__non__aggr__func__YEAR	
0	863 (86%)
1	97 (9.7%)
2	27 (2.7%)
3	8 (0.8%)
4	3 (0.3%)
6	1 (0.1%)
8	1 (0.1%)
SELECT__n_of__non__aggr__func__ABS	
0	939 (94%)
1	53 (5.3%)
2	8 (0.8%)
SELECT__n_of__non__aggr__func__FLOOR	
0	936 (94%)
1	62 (6.2%)
2	2 (0.2%)
SELECT__n_of__non__aggr__func__MONTH	
0	873 (87%)
1	86 (8.6%)
2	26 (2.6%)
3	8 (0.8%)
4	3 (0.3%)
5	2 (0.2%)
6	1 (0.1%)
7	1 (0.1%)
SELECT__n_of__non__aggr__func__DAY	
0	911 (91%)
1	64 (6.4%)
2	18 (1.8%)
3	6 (0.6%)
6	1 (0.1%)
SELECT__n_of__all__non__aggr__func	[0.0, 2.0, 48.0] 3.3 / 4.6
SELECT__n_of__aggr__func__COUNT_DISTINCT	[0.00, 0.00, 9.00] 0.68 / 1.50
SELECT__n_of__aggr__func__MAX	[0.00, 0.00, 12.00] 0.67 / 1.54
SELECT__n_of__aggr__func__COUNT	[0.00, 0.00, 9.00] 0.61 / 1.41
SELECT__n_of__aggr__func__AVG	
0	939 (94%)
1	47 (4.7%)
2	12 (1.2%)
3	2 (0.2%)

Query parameter or value	Descriptive statistics
SELECT_n_of_aggr_func__MIN	[0.00, 0.00, 11.00] 0.66 / 1.53
SELECT_n_of_aggr_func__SUM	
0	952 (95%)
1	39 (3.9%)
2	7 (0.7%)
3	2 (0.2%)
SELECT_n_of_all_aggr_func	[0.00, 2.00, 12.00] 2.76 / 2.38
FROM_n_of_join_paths	
1	337 (34%)
2	316 (32%)
3	347 (35%)
FROM_n_of_super_joins__LEFT	
0	758 (76%)
1	215 (22%)
2	27 (2.7%)
FROM_n_of_super_joins__FULL	
0	779 (78%)
1	202 (20%)
2	19 (1.9%)
FROM_n_of_super_joins__RIGHT	
0	780 (78%)
1	200 (20%)
2	20 (2.0%)
FROM_n_of_joins__RIGHT	
0	244 (24%)
1	270 (27%)
2	217 (22%)
3	138 (14%)
4	86 (8.6%)
5	28 (2.8%)
6	12 (1.2%)
7	5 (0.5%)
FROM_n_of_joins__INNER	
0	254 (25%)
1	234 (23%)
2	224 (22%)
3	141 (14%)
4	81 (8.1%)
5	48 (4.8%)
6	13 (1.3%)
7	5 (0.5%)
FROM_n_of_processed_rows	[5, 6,810,616, 22,951,863] 6,481,810 / 6,026,818
WHERE_n_of_predicates	[0.00, 3.00, 10.00] 2.83 / 2.13
WHERE_n_of_attribs_of_type__integer	
0	444 (44%)
1	314 (31%)

Query parameter or value	Descriptive statistics
2	169 (17%)
3	57 (5.7%)
4	14 (1.4%)
5	2 (0.2%)
WHERE_n_of_attribs_of_type__character	
0	735 (74%)
1	205 (21%)
2	49 (4.9%)
3	6 (0.6%)
4	3 (0.3%)
5	2 (0.2%)
WHERE_n_of_attribs_of_type__character_varying	
0	414 (41%)
1	313 (31%)
2	171 (17%)
3	76 (7.6%)
4	20 (2.0%)
5	6 (0.6%)
WHERE_n_of_attribs_of_type__date	
0	846 (85%)
1	139 (14%)
2	15 (1.5%)
WHERE_n_of_attribs_of_type__numeric	
0	661 (66%)
1	259 (26%)
2	61 (6.1%)
3	18 (1.8%)
4	1 (0.1%)
WHERE_n_of_pkey_attribs	
0	608 (61%)
1	300 (30%)
2	76 (7.6%)
3	14 (1.4%)
4	2 (0.2%)
WHERE_n_of_connect_OR	
0	425 (43%)
1	203 (20%)
2	147 (15%)
3	109 (11%)
4	56 (5.6%)
5	44 (4.4%)
6	9 (0.9%)
7	4 (0.4%)
8	3 (0.3%)
WHERE_n_of_operators__greater_or_less	
0	406 (41%)

Query parameter or value	Descriptive statistics
1	300 (30%)
2	179 (18%)
3	87 (8.7%)
4	25 (2.5%)
5	3 (0.3%)
WHERE_n_of_operators__between	
0	614 (61%)
1	271 (27%)
2	94 (9.4%)
3	17 (1.7%)
4	4 (0.4%)
WHERE_n_of_operators__in	
0	621 (62%)
1	259 (26%)
2	95 (9.5%)
3	21 (2.1%)
4	4 (0.4%)
WHERE_n_of_operators__like	
0	817 (82%)
1	163 (16%)
2	18 (1.8%)
3	2 (0.2%)
WHERE_n_of_non_aggr_func__MONTH	
0	981 (98%)
1	19 (1.9%)
WHERE_n_of_non_aggr_func__LOG	
0	938 (94%)
1	61 (6.1%)
2	1 (0.1%)
WHERE_n_of_non_aggr_func__SQRT	
0	903 (90%)
1	89 (8.9%)
2	7 (0.7%)
3	1 (0.1%)
WHERE_n_of_non_aggr_func__ROUND	
0	968 (97%)
1	31 (3.1%)
2	1 (0.1%)
WHERE_n_of_non_aggr_func__ABS	
0	964 (96%)
1	36 (3.6%)
WHERE_n_of_non_aggr_func__FLOOR	
0	976 (98%)
1	24 (2.4%)
WHERE_n_of_non_aggr_func__YEAR	
0	982 (98%)

Query parameter or value	Descriptive statistics
1	17 (1.7%)
2	1 (0.1%)
WHERE_n_of_non_aggr_func__DOW	
0	976 (98%)
1	23 (2.3%)
2	1 (0.1%)
WHERE_n_of_non_aggr_func__TRUNC	
0	970 (97%)
1	30 (3.0%)
WHERE_n_of_non_aggr_func__DAY	
0	970 (97%)
1	30 (3.0%)
WHERE_n_of_all_non_aggr_func	
0	701 (70%)
1	234 (23%)
2	48 (4.8%)
3	13 (1.3%)
4	4 (0.4%)
GROUP_BY_n_of_columns	[0.00, 2.00, 9.00] 2.33 / 2.13
HAVING_n_of_main_predicates	
0	297 (30%)
1	96 (9.6%)
2	145 (15%)
3	183 (18%)
4	128 (13%)
5	102 (10%)
6	49 (4.9%)
HAVING_n_of_main_predicates__scalar_subquery	
0	430 (43%)
1	166 (17%)
2	202 (20%)
3	202 (20%)
HAVING_n_of_subqueries__scalar_subquery	[0.0, 1.0, 22.0] 2.5 / 3.7
HAVING_n_of_processed_rows_by_subqueries	[0, 360,065, 401,883,687] 16,734,382 / 36,220,647
ORDER_BY_n_of_columns	
0	287 (29%)
1	374 (37%)
2	245 (25%)
3	65 (6.5%)
4	16 (1.6%)
5	9 (0.9%)
6	4 (0.4%)
limit	[2, 491, 1,000] 497 / 283
offset	[0, 26, 994] 261 / 329