

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

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## Scenario: 1-6jp_ujpp__g__h0-3ss_h0nss

## Scale factor: 100 GB

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

## 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, 173] 16 / 25
SELECT_n_of_non_aggr_func__DAY	
0	872 (87%)
1	91 (9.1%)
2	20 (2.0%)
3	10 (1.0%)
4	5 (0.5%)
5	2 (0.2%)
SELECT_n_of_non_aggr_func__DOW	
0	860 (86%)
1	94 (9.4%)
2	30 (3.0%)
3	9 (0.9%)
4	3 (0.3%)
5	2 (0.2%)

Query parameter or value	Descriptive statistics
6	2 (0.2%)
SELECT_n_of_non_aggr_func__FLOOR	
0	909 (91%)
1	74 (7.4%)
2	14 (1.4%)
3	2 (0.2%)
4	1 (0.1%)
SELECT_n_of_non_aggr_func__LOG	
0	849 (85%)
1	116 (12%)
2	21 (2.1%)
3	7 (0.7%)
4	5 (0.5%)
5	2 (0.2%)
SELECT_n_of_non_aggr_func__MONTH	
0	798 (80%)
1	137 (14%)
2	35 (3.5%)
3	11 (1.1%)
4	5 (0.5%)
5	8 (0.8%)
6	3 (0.3%)
7	1 (0.1%)
8	2 (0.2%)
SELECT_n_of_non_aggr_func__LOWER	[0.00, 0.00, 9.00] 0.58 / 1.02
SELECT_n_of_non_aggr_func__SUBSTR	[0.00, 0.00, 10.00] 0.60 / 1.08
SELECT_n_of_non_aggr_func__TRUNC	
0	921 (92%)
1	62 (6.2%)
2	12 (1.2%)
3	4 (0.4%)
4	1 (0.1%)
SELECT_n_of_non_aggr_func__SQRT	[0.00, 0.00, 10.00] 0.35 / 0.99
SELECT_n_of_non_aggr_func__LTRIM	[0.00, 0.00, 9.00] 0.62 / 1.11
SELECT_n_of_non_aggr_func__YEAR	
0	833 (83%)
1	110 (11%)
2	27 (2.7%)
3	13 (1.3%)
4	7 (0.7%)
5	4 (0.4%)
6	5 (0.5%)
7	1 (0.1%)
SELECT_n_of_non_aggr_func__ROUND	
0	927 (93%)
1	60 (6.0%)

Query parameter or value	Descriptive statistics
2	8 (0.8%)
3	3 (0.3%)
4	1 (0.1%)
5	1 (0.1%)
SELECT_n_of_non_aggr_func__RTRIM	[0.00, 0.00, 11.00] 0.64 / 1.14
SELECT_n_of_non_aggr_func__UPPER	[0.00, 0.00, 9.00] 0.61 / 1.09
SELECT_n_of_non_aggr_func__ABS	
0	920 (92%)
1	65 (6.5%)
2	14 (1.4%)
4	1 (0.1%)
SELECT_n_of_all_non_aggr_func	[0.0, 3.0, 74.0] 5.0 / 8.4
SELECT_n_of_aggr_func__COUNT_DISTINCT	[0.00, 0.00, 12.00] 0.88 / 2.03
SELECT_n_of_aggr_func__COUNT	[0.00, 0.00, 14.00] 0.85 / 1.94
SELECT_n_of_aggr_func__SUM	
0	926 (93%)
1	50 (5.0%)
2	19 (1.9%)
3	4 (0.4%)
5	1 (0.1%)
SELECT_n_of_aggr_func__MAX	[0.00, 0.00, 14.00] 0.90 / 2.03
SELECT_n_of_aggr_func__MIN	[0.00, 0.00, 14.00] 0.78 / 1.88
SELECT_n_of_aggr_func__AVG	
0	941 (94%)
1	39 (3.9%)
2	13 (1.3%)
3	6 (0.6%)
4	1 (0.1%)
SELECT_n_of_all_aggr_func	[0.0, 3.0, 14.0] 3.6 / 3.2
FROM_n_of_join_paths	
1	179 (18%)
2	175 (18%)
3	156 (16%)
4	177 (18%)
5	160 (16%)
6	153 (15%)
FROM_n_of_super_joins__FULL	
0	552 (55%)
1	304 (30%)
2	115 (12%)
3	26 (2.6%)
4	3 (0.3%)
FROM_n_of_super_joins__LEFT	
0	557 (56%)
1	311 (31%)
2	106 (11%)

Query parameter or value	Descriptive statistics
3	26 (2.6%)
FROM_n_of_super_joins__RIGHT	
0	571 (57%)
1	300 (30%)
2	107 (11%)
3	18 (1.8%)
4	4 (0.4%)
FROM_n_of_joins__INNER	[0.00, 3.00, 12.00] 3.28 / 2.48
FROM_n_of_joins__RIGHT	[0.00, 3.00, 13.00] 3.22 / 2.47
FROM_n_of_processed_rows	[5, 928,538,025, 4,495,227,462] 1,173,165,546 / 948,381,914
WHERE_n_of_predicates	[0.00, 3.00, 13.00] 3.74 / 2.85
WHERE_n_of_attribs_of_type__character	
0	633 (63%)
1	273 (27%)
2	77 (7.7%)
3	16 (1.6%)
4	1 (0.1%)
WHERE_n_of_attribs_of_type__character_varying	
0	382 (38%)
1	289 (29%)
2	187 (19%)
3	79 (7.9%)
4	39 (3.9%)
5	18 (1.8%)
6	4 (0.4%)
7	2 (0.2%)
WHERE_n_of_attribs_of_type__integer	
0	370 (37%)
1	291 (29%)
2	185 (19%)
3	93 (9.3%)
4	43 (4.3%)
5	13 (1.3%)
6	5 (0.5%)
WHERE_n_of_attribs_of_type__date	
0	801 (80%)
1	158 (16%)
2	38 (3.8%)
3	2 (0.2%)
4	1 (0.1%)
WHERE_n_of_attribs_of_type__numeric	
0	568 (57%)
1	287 (29%)
2	114 (11%)
3	21 (2.1%)

Query parameter or value	Descriptive statistics
4	7 (0.7%)
5	3 (0.3%)
WHERE_n_of_pkey_attris	
0	517 (52%)
1	323 (32%)
2	108 (11%)
3	46 (4.6%)
4	6 (0.6%)
WHERE_n_of_connect_OR	[0.00, 1.00, 11.00] 2.10 / 2.30
WHERE_n_of_operators__between	
0	526 (53%)
1	313 (31%)
2	107 (11%)
3	37 (3.7%)
4	12 (1.2%)
5	5 (0.5%)
WHERE_n_of_operators__greater_or_less	
0	343 (34%)
1	268 (27%)
2	189 (19%)
3	109 (11%)
4	57 (5.7%)
5	24 (2.4%)
6	6 (0.6%)
7	2 (0.2%)
8	2 (0.2%)
WHERE_n_of_operators__in	
0	555 (56%)
1	275 (28%)
2	121 (12%)
3	34 (3.4%)
4	12 (1.2%)
5	2 (0.2%)
7	1 (0.1%)
WHERE_n_of_operators__like	
0	796 (80%)
1	179 (18%)
2	22 (2.2%)
3	3 (0.3%)
WHERE_n_of_non_aggr_func__DOW	
0	975 (98%)
1	25 (2.5%)
WHERE_n_of_non_aggr_func__SQRT	
0	881 (88%)
1	117 (12%)
2	2 (0.2%)

Query parameter or value	Descriptive statistics
WHERE_n_of_non_aggr_func__ABS	
0	958 (96%)
1	41 (4.1%)
2	1 (0.1%)
WHERE_n_of_non_aggr_func__MONTH	
0	967 (97%)
1	33 (3.3%)
WHERE_n_of_non_aggr_func__LOG	
0	916 (92%)
1	79 (7.9%)
2	5 (0.5%)
WHERE_n_of_non_aggr_func__ROUND	
0	957 (96%)
1	42 (4.2%)
2	1 (0.1%)
WHERE_n_of_non_aggr_func__FLOOR	
0	956 (96%)
1	42 (4.2%)
2	2 (0.2%)
WHERE_n_of_non_aggr_func__TRUNC	
0	967 (97%)
1	33 (3.3%)
WHERE_n_of_non_aggr_func__DAY	
0	964 (96%)
1	35 (3.5%)
2	1 (0.1%)
WHERE_n_of_non_aggr_func__YEAR	
0	963 (96%)
1	34 (3.4%)
2	3 (0.3%)
WHERE_n_of_all_non_aggr_func	
0	620 (62%)
1	269 (27%)
2	91 (9.1%)
3	20 (2.0%)
GROUP_BY_n_of_columns	[0.00, 2.00, 12.00] 3.05 / 2.89
HAVING_n_of_main_predicates	
0	300 (30%)
1	103 (10%)
2	142 (14%)
3	191 (19%)
4	126 (13%)
5	95 (9.5%)
6	43 (4.3%)
HAVING_n_of_main_predicates__scalar_subquery	
0	444 (44%)

Query parameter or value	Descriptive statistics
<i>1</i>	183 (18%)
<i>2</i>	198 (20%)
<i>3</i>	175 (18%)
HAVING_n_of_subqueries__scalar_subquery	[0.0, 1.0, 18.0] 2.2 / 3.3
HAVING_n_of_processed_rows_by_subqueries	[0, 141,000,120, 33,931,478,568] 2,348,403,918 / 4,708,674,732
ORDER_BY_n_of_columns	
<i>0</i>	309 (31%)
<i>1</i>	316 (32%)
<i>2</i>	244 (24%)
<i>3</i>	90 (9.0%)
<i>4</i>	28 (2.8%)
<i>5</i>	9 (0.9%)
<i>6</i>	2 (0.2%)
<i>7</i>	2 (0.2%)
limit	[3, 526, 1,000] 521 / 290
offset	[0, 10, 998] 250 / 317