

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

Scenario: 1-1jp__ng

Scale factor: 2 GB

The 1000-query pack was generated on: 2023-11-08

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, 46] 10 / 9
SELECT_n_of_non_aggr_func__RTRIM	
0	809 (81%)
1	149 (15%)
2	30 (3.0%)
3	9 (0.9%)
4	2 (0.2%)
5	1 (0.1%)
SELECT_n_of_non_aggr_func__SUBSTR	
0	803 (80%)
1	139 (14%)
2	50 (5.0%)
3	3 (0.3%)
4	4 (0.4%)
5	1 (0.1%)

Query parameter or value	Descriptive statistics
SELECT__n_of__non__aggr__func__UPPER	
0	793 (79%)
1	162 (16%)
2	31 (3.1%)
3	12 (1.2%)
4	2 (0.2%)
SELECT__n_of__non__aggr__func__LTRIM	
0	792 (79%)
1	164 (16%)
2	36 (3.6%)
3	6 (0.6%)
4	2 (0.2%)
SELECT__n_of__non__aggr__func__TRUNC	
0	944 (94%)
1	51 (5.1%)
2	4 (0.4%)
3	1 (0.1%)
SELECT__n_of__non__aggr__func__LOWER	
0	789 (79%)
1	175 (18%)
2	27 (2.7%)
3	7 (0.7%)
4	2 (0.2%)
SELECT__n_of__non__aggr__func__SQRT	
0	841 (84%)
1	131 (13%)
2	25 (2.5%)
3	3 (0.3%)
SELECT__n_of__non__aggr__func__DAY	
0	907 (91%)
1	80 (8.0%)
2	13 (1.3%)
SELECT__n_of__non__aggr__func__MONTH	
0	842 (84%)
1	119 (12%)
2	31 (3.1%)
3	6 (0.6%)
4	2 (0.2%)
SELECT__n_of__non__aggr__func__YEAR	
0	855 (86%)
1	102 (10%)
2	34 (3.4%)
3	8 (0.8%)
4	1 (0.1%)
SELECT__n_of__non__aggr__func__ABS	
0	940 (94%)

Query parameter or value	Descriptive statistics
1	58 (5.8%)
2	2 (0.2%)
SELECT_n_of_non_aggr_func___DOW	
0	884 (88%)
1	89 (8.9%)
2	26 (2.6%)
3	1 (0.1%)
SELECT_n_of_non_aggr_func___FLOOR	
0	932 (93%)
1	61 (6.1%)
2	6 (0.6%)
3	1 (0.1%)
SELECT_n_of_non_aggr_func___LOG	
0	892 (89%)
1	94 (9.4%)
2	13 (1.3%)
4	1 (0.1%)
SELECT_n_of_non_aggr_func___ROUND	
0	930 (93%)
1	67 (6.7%)
2	3 (0.3%)
SELECT_n_of_all_non_aggr_func	[0.0, 1.0, 24.0] 2.5 / 3.7
SELECT_n_of_aggr_func___AVG	
0	986 (99%)
1	12 (1.2%)
2	2 (0.2%)
SELECT_n_of_aggr_func___COUNT	
0	939 (94%)
1	23 (2.3%)
2	17 (1.7%)
3	7 (0.7%)
4	9 (0.9%)
5	2 (0.2%)
6	1 (0.1%)
7	1 (0.1%)
8	1 (0.1%)
SELECT_n_of_aggr_func___MIN	
0	920 (92%)
1	40 (4.0%)
2	19 (1.9%)
3	10 (1.0%)
4	4 (0.4%)
5	3 (0.3%)
6	3 (0.3%)
7	1 (0.1%)
SELECT_n_of_aggr_func___COUNT_DISTINCT	

Query parameter or value	Descriptive statistics
0	936 (94%)
1	32 (3.2%)
2	11 (1.1%)
3	14 (1.4%)
4	4 (0.4%)
5	3 (0.3%)
SELECT__n_of__aggr_func__SUM	
0	991 (99%)
1	7 (0.7%)
2	2 (0.2%)
SELECT__n_of__aggr_func__MAX	
0	927 (93%)
1	30 (3.0%)
2	18 (1.8%)
3	13 (1.3%)
4	8 (0.8%)
5	3 (0.3%)
6	1 (0.1%)
SELECT__n_of__all__aggr_func	
0	749 (75%)
1	83 (8.3%)
2	65 (6.5%)
3	48 (4.8%)
4	29 (2.9%)
5	15 (1.5%)
6	6 (0.6%)
7	4 (0.4%)
9	1 (0.1%)
FROM__n_of__join_paths	
1	1,000 (100%)
FROM__n_of__joins__INNER	
0	516 (52%)
1	313 (31%)
2	133 (13%)
3	31 (3.1%)
4	7 (0.7%)
FROM__n_of__joins__RIGHT	
0	485 (49%)
1	336 (34%)
2	146 (15%)
3	29 (2.9%)
4	4 (0.4%)
FROM__n_of__processed_rows	[5, 1,999,865, 15,295,747] 5,711,575 / 6,221,293
WHERE__n_of__predicates	
0	224 (22%)
1	203 (20%)

Query parameter or value	Descriptive statistics
2	239 (24%)
3	165 (17%)
4	105 (11%)
5	52 (5.2%)
6	12 (1.2%)
WHERE_n_of_attribs_of_type__integer	
0	547 (55%)
1	339 (34%)
2	92 (9.2%)
3	21 (2.1%)
5	1 (0.1%)
WHERE_n_of_attribs_of_type__character_varying	
0	525 (53%)
1	320 (32%)
2	134 (13%)
3	19 (1.9%)
4	2 (0.2%)
WHERE_n_of_attribs_of_type__numeric	
0	726 (73%)
1	223 (22%)
2	44 (4.4%)
3	7 (0.7%)
WHERE_n_of_attribs_of_type__character	
0	808 (81%)
1	157 (16%)
2	35 (3.5%)
WHERE_n_of_attribs_of_type__date	
0	883 (88%)
1	110 (11%)
2	6 (0.6%)
3	1 (0.1%)
WHERE_n_of_pkey_attribs	
0	717 (72%)
1	242 (24%)
2	40 (4.0%)
3	1 (0.1%)
WHERE_n_of_connect_OR	
0	580 (58%)
1	218 (22%)
2	116 (12%)
3	62 (6.2%)
4	21 (2.1%)
5	3 (0.3%)
WHERE_n_of_operators__greater_or_less	
0	489 (49%)
1	334 (33%)

Query parameter or value	Descriptive statistics
2	133 (13%)
3	37 (3.7%)
4	5 (0.5%)
5	2 (0.2%)
WHERE_n_of_operators_in	
0	704 (70%)
1	244 (24%)
2	49 (4.9%)
3	2 (0.2%)
4	1 (0.1%)
WHERE_n_of_operators_like	
0	875 (88%)
1	117 (12%)
2	8 (0.8%)
WHERE_n_of_operators_between	
0	708 (71%)
1	245 (25%)
2	36 (3.6%)
3	11 (1.1%)
WHERE_n_of_non_aggr_func_DAY	
0	982 (98%)
1	18 (1.8%)
WHERE_n_of_non_aggr_func_TRUNC	
0	979 (98%)
1	18 (1.8%)
2	3 (0.3%)
WHERE_n_of_non_aggr_func_SQRT	
0	947 (95%)
1	50 (5.0%)
2	3 (0.3%)
WHERE_n_of_non_aggr_func_ABS	
0	978 (98%)
1	22 (2.2%)
WHERE_n_of_non_aggr_func_FLOOR	
0	977 (98%)
1	23 (2.3%)
WHERE_n_of_non_aggr_func_ROUND	
0	979 (98%)
1	21 (2.1%)
WHERE_n_of_non_aggr_func_DOW	
0	981 (98%)
1	19 (1.9%)
WHERE_n_of_non_aggr_func_LOG	
0	954 (95%)
1	45 (4.5%)
2	1 (0.1%)

Query parameter or value	Descriptive statistics
WHERE_n_of_non_aggr_func__MONTH	
0	985 (99%)
1	15 (1.5%)
WHERE_n_of_non_aggr_func__YEAR	
0	971 (97%)
1	29 (2.9%)
WHERE_n_of_all_non_aggr_func	
0	767 (77%)
1	197 (20%)
2	32 (3.2%)
3	3 (0.3%)
4	1 (0.1%)
GROUP_BY_n_of_columns	
0	1,000 (100%)
HAVING_n_of_main_predicates	
0	1,000 (100%)
ORDER_BY_n_of_columns	
0	450 (45%)
1	280 (28%)
2	154 (15%)
3	79 (7.9%)
4	32 (3.2%)
5	5 (0.5%)
limit	[1, 510, 1,000] 506 / 296
offset	[0, 0, 999] 252 / 330