

# Test cases

Sunday, February 6, 2022 7:08 PM

## NATION (1)

q3

(n\_regionkey = 3) AND (n\_nationkey > 10) AND (n\_name > 'JAPAN')

```
(q3) select * from nation where n_regionkey = 3 and n_nationkey > 10 and n_name > 'JAPAN';
```

tpch1g=# select \* from nation where n\_regionkey = 3 and n\_nationkey > 10 and n\_name > 'JAPAN';

n_nationkey	n_name	n_regionkey
19	ROMANIA	3
22	RUSSIA	3
23	UNITED KINGDOM	3

(3 rows)

Time: 118.920 ms

## REGION (2)

q1

(r\_name = 'EUROPE')

```
(q1) select * from region where r_name='EUROPE';
```

tpch1g=# select \* from region where r\_name='EUROPE';

r_regionkey	r_name	r_comment
3	EUROPE	special, bold deposits haggle

(1 row)

q2

(r\_name < 'MIDDLE EAST') AND (r\_regionkey > 1)

```
(q2) select * from region where r_name < 'middle east' and r_regionkey > 1;
```

tpch1g=# select \* from region where r\_name < 'middle east' and r\_regionkey > 1;

r_regionkey	r_name	r_comment
2	ASIA	silent, bold requests sleep slyly across
3	EUROPE	special, bold deposits haggle foxes. pla

(2 rows)

## SUPPLIER (3)

q4

(s\_suppkey < 10)

```
(q4) select * from supplier where s_suppkey < 10;
```

```
tpch1g=# select * from supplier where s_suppkey < 10;
```

s_suppkey	s_name	s_address	s_nationkey	s_phone	s_acctbal	
1	Supplier#000000001	N kd4on9OM Ipw3,gf03BoQpd7tgrzrddZ	17	27-918-335-1736	5755.94	requests h
2	Supplier#000000002	89e35ksX3ImxJQ8vx0bC,	5	15-679-861-2259	4032.68	furiously t
3	Supplier#000000003	q1,G3Pj60JlUuYfu0H188FTKP5aU9bEV3	1	11-383-516-1199	4192.4	furiously
4	Supplier#000000004	Bk7ah4CK8SYQJepEmvMkgMwg	15	25-843-787-7479	4641.08	final idea
5	Supplier#000000005	GcdmZrJRz15qlTVzc	11	21-151-690-3663	-283.84	carefully
6	Supplier#000000006	tQxuVm7s7CnK	14	24-696-997-4969	1365.79	even reque
7	Supplier#000000007	s,4TiCNGB4uo6PaSqNBUq	23	33-990-965-2201	6820.35	carefully
8	Supplier#000000008	9Sq4bBH2FQEmafOocY45sRTo6yuoG	17	27-498-742-3860	7627.85	carefully
9	Supplier#000000009	1KhUgZegwM3ua7dsYmekYBSK	10	20-403-398-8662	5302.37	slyly regu

(9 rows)

Time: 105.006 ms

q5

(s\_nationkey = 18) AND (s\_acctbal > 1000.0) AND (s\_suppkey < 400)

```
(q5) select * from supplier where s_nationkey = 18 and s_acctbal > 1000 and s_suppkey < 400;
```

```
tpch1g=# select * from supplier where s_nationkey = 18 and s_acctbal > 1000 and s_suppkey < 400;
```

s_suppkey	s_name	s_address	s_nationkey	s_phone	s_acctbal	
11	Supplier#000000011	JfwTs,LZrV, M,9C	18	28-613-996-1505	3393.08	quickly bol
27	Supplier#000000027	lC4cjKw#HUr6L4xlpzOBK4NlHKfTg	18	28-708-999-2028	1887.62	furiously t
41	Supplier#000000041	G 1FKHR435 wMkfmyt	18	28-739-447-2525	6942.67	silently re
72	Supplier#000000072	mKpA3oJtawk2alqV4 ZEBj3PH3wfYqy AM8rGq1	18	28-113-898-6643	7014.5	quickly eve
99	Supplier#000000099	4SxkTHG28nZrtt0,MnVF9H	18	28-272-909-1617	3671.34	fluffily fil
117	Supplier#000000117	ZnlLNC,8YN10T4mjI8eq5bJ	18	28-470-879-3141	4589.18	unusual dep
119	Supplier#000000119	4CxBR#0o4yt6LYfXZiY289Xnf8LZnN6KcYc	18	28-558-264-1202	2060.13	blithely ex
187	Supplier#000000187	oMtyTl6hTyLQh1BwrUaa42zK0jfWobEq	18	28-127-320-9230	8517.04	fluffily re
191	Supplier#000000191	X dZg6dtv17X7	18	28-437-699-1621	1445	carefully e
196	Supplier#000000196	TQX4f#Wb5Txoz4fi4CEhAlhi6	18	28-430-406-1127	4710.62	slyly regul
201	Supplier#000000201	e3lZO QY9QpCvdCc0HXrqX85uxXnOi r	18	28-782-585-7326	9537.73	blithely ev
213	Supplier#000000213	1s7 4odatD2BWz1qjXR2 2SnFhc,Rvr2lCxdhm7f	18	28-317-938-6979	2616.54	deposits ca
255	Supplier#000000255	qx16xyCEuH90awVeqM0lG1hAU3ZiHFPNko	18	28-629-327-4139	4663.08	final packa
294	Supplier#000000294	20vnacv,dtZomr5kukNF	18	28-299-788-1836	6700.75	blithely sp
302	Supplier#000000302	ow8Io1JhKpniAGCQYcWC	18	28-734-845-8630	4422.77	slyly bold
319	Supplier#000000319	tceS8Ay3zcHQER9KgAKFWlDvcg nrbPl	18	28-288-466-7847	1578.18	express dep
324	Supplier#000000324	Q0sg0Sozq jniYR2HzxofLzyk0qGdJe	18	28-637-452-5085	8042.43	quickly iro
385	Supplier#000000385	4RDwKnc6 yBY	18	28-730-866-8837	5836.17	accounts ab
388	Supplier#000000388	n27XQqhXrXl3RLdsyXNoljps	18	28-306-827-7902	6540.34	furiously e

(19 rows)

Time: 121.814 ms

## CUSTOMER (4)

q6

(c\_nationkey = 23) AND (c\_mktsegment = 'FURNITURE') AND (c\_acctbal > 7023.99) AND (c\_acctbal < 7110.83)

```
(q6) select * from customer where c_nationkey = 23 and c_mktsegment = 'FURNITURE' and c_acctbal > 7023.99 and c_acctbal < 7110.83;
```

```
tpch1g=# select * from customer where c_nationkey = 23 and c_mktsegment = 'FURNITURE' and c_acctbal > 7023.99 and c_acctbal < 7110.83;
```

c_custkey	c_name	c_address	c_nationkey	c_phone	c_acctbal	c_mktsegment	
30970	Customer#000030970	O,M4bwYdHosdg64DGAc60uxWjnSr1P63sWAT	23	33-739-174-9054	7054.59	FURNITURE	depende
35802	Customer#000035802	r8fEXhwF4MKMZQ,LIrTVjS8qEnb7KENEVEDEY	23	33-931-338-6655	7027.91	FURNITURE	fluffily
38796	Customer#000038796	nIGHXXDiaVBoX BCrIxlJUKx	23	33-893-935-9650	7079.41	FURNITURE	deposits ca
61179	Customer#000061179	dpdbiV6kFyz x60T84qR9j	23	33-825-707-8461	7075.72	FURNITURE	slyly r
72898	Customer#000072898	lZr8Pa4okwhhXCH,Lj3lV	23	33-119-734-3569	7096.31	FURNITURE	even pa
73441	Customer#000073441	7BHF659A qNn0lio	23	33-868-482-1168	7038.25	FURNITURE	regular
85818	Customer#000085818	nahgIhPPabGH5P7Xsk40qdUmJm,	23	33-688-221-5550	7073.67	FURNITURE	ironic
98151	Customer#000098151	hEk1 FNTkn9wvr,1nmPgBPPrz6CkvjvjikBg	23	33-870-939-7560	7045.3	FURNITURE	deposits
125850	Customer#000125850	g0870ozQ6fLfrpcDBi0EdzslbTzuH2Y	23	33-577-932-3052	7076.18	FURNITURE	slyly e
145598	Customer#000145598	Sn6Xg8wImdx1i7h2AwfsoNVBCI34oSaa	23	33-685-336-6690	7064.61	FURNITURE	quickly

(10 rows)

Time: 582.609 ms

## PART (5)

q7

(p\_brand = 'Brand#13') AND (p\_retailprice > 500.0) AND (p\_retailprice < 930.0) AND (p\_size > 28) AND (p\_size < 1000000)

```
(q7) select * from part where p_brand='Brand#13' and p_retailprice > 500 and p_retailprice < 930 and p_size > 28 and p_size < 1000000;
```

tpch1g=#	p_partkey	p_name	p_mfgr	p_brand	p_type	p_size	p_contain
	1022	olive smoke blue dim ghost	Manufacturer#1	Brand#13	SMALL BURNISHED COPPER	33	WRAP CAN
	3001	moccasin wheat honeydew cornflower royal	Manufacturer#1	Brand#13	PROMO POLISHED TIN	36	MED CAN
	3022	brown bisque burlywood dim royal	Manufacturer#1	Brand#13	LARGE BURNISHED BRASS	41	LG BAG
	4005	floral goldenrod firebrick ghost cyan	Manufacturer#1	Brand#13	ECONOMY PLATED STEEL	34	SM JAR
	8000	brown chartreuse metallic bisque blush	Manufacturer#1	Brand#13	LARGE PLATED STEEL	36	LG PKG
	10011	hot lawn burlywood papaya blanded	Manufacturer#1	Brand#13	PROMO ANODIZED NICKEL	32	JUMBO BAG
	17008	beige blanded dark blush bisque	Manufacturer#1	Brand#13	MEDIUM BRUSHED COPPER	46	MED BOX
	24005	khaki chiffon drab navajo firebrick	Manufacturer#1	Brand#13	ECONOMY ANODIZED BRASS	38	JUMBO PKG

(8 rows)

Time: 701.706 ms

## PARTSUPP (6)

q8

(ps\_supplycost > 999.98)

```
(q8) select * from partsupp where ps_supplycost > 999.98;
```

tpch1g=#	ps_partkey	ps_suppkey	ps_availqty	ps_supplycost	
	1213	3714	5070	999.99	fluffily regular theodolites hagg
	15717	3221	9790	999.99	carefully final platelets dazzle
	19079	1581	4680	999.99	express deposits sleep carefully
	26924	1929	9218	1000	accounts wake. quickly ironic ins
	30836	5843	6993	999.99	fluffily final dependencies after
	31554	1555	2409	1000	slyly even packages are requests-
	52644	5150	8224	999.99	express ideas around the carefull
	99907	7435	7911	1000	final excuses according to the bo
	103943	3944	5065	1000	epitaphs hang about the carefully
	105389	410	8531	999.99	slyly bold deposits dazzle along
	130470	2984	2592	999.99	carefully final pinto beans sleep
	142176	7205	9737	1000	slyly regular accounts integrate;
	182623	7660	4963	999.99	instructions haggle furiously slo
	185850	5851	9994	1000	regularly final accounts boost de

(14 rows)

Time: 703.346 ms

q9

(ps\_availqty < 10) AND (ps\_supplycost > 100.0) AND (ps\_suppkey < 300)

```
(q9) select * from partsupp where ps_availqty<10 and ps_supplycost > 100 and ps_suppkey < 300;
```

tpch1g=#	ps_partkey	ps_suppkey	ps_availqty	ps_supplycost	
	7696	197	6	268.55	evenly unusual dolphins sleep busily. ideas wake quickly. furious
	10245	246	7	722.6	ironic foxes about the quickly bold instructions detect against t
	25097	102	1	167.93	furiously unusual ideas impress after the ironic requests. quickl
	27573	76	2	624.24	enticing, bold sauternes above the carefully regular packages caj
	42762	275	5	275.99	special asymptotes hang accounts. regular theodolites integrate d
	50050	51	5	487.83	furiously silent packages sleep furiously furiously regular packa
	50225	226	7	320.96	even, even requests cajole final pinto beans-- slyly final platel
	77622	130	6	352.93	pending, regular requests cajole furiously carefully unusual requ
	85011	28	4	628.75	carefully pending sentiments use ironic, permanent deposits. furi
	112746	280	7	460.99	slyly even theodolites boost. carefully final packages integrate
	137572	86	8	180.55	silently ironic requests wake after the thin, final packages. per
	172720	272	5	437.41	slyly special accounts about the deposits use furiously blithely
	187487	6	7	447.8	unusual requests wake furiously quickly even accounts. deposits s
	192666	224	1	374.58	carefully final packages cajole about the blithely silent package

(14 rows)

Time: 2465.929 ms

## ORDERS (7)

q10

(o\_orderpriority = '1-URGENT') AND (o\_orderstatus = 'O') AND (o\_shippriority = 0) AND (o\_totalprice > 1015.68) AND (o\_totalprice < 1051.89)

```
(q10) select * from orders where o_orderpriority='1-URGENT' and o_shippriority=0 and o_totalprice < 1051.89;

tpch1g=# select * from orders where o_orderpriority='1-URGENT' and o_orderstatus='0' and o_shippriority=0 and o_totalprice > 1015.68
 o_orderkey | o_custkey | o_orderstatus | o_totalprice | o_orderdate | o_orderpriority | o_clerk | o_shippriority |
-----+-----+-----+-----+-----+-----+-----+-----+
 298468    | 72782    | 0             | 1035.34     | 1996-02-08  | 1-URGENT       | Clerk#000000305 | 0 |
1636866    | 123397   | 0             | 1030.26     | 1997-01-09  | 1-URGENT       | Clerk#000000268 | 0 |
1866274    | 43048    | 0             | 1040.95     | 1998-05-29  | 1-URGENT       | Clerk#000000353 | 0 |
2270022    | 34705    | 0             | 1020.97     | 1995-07-19  | 1-URGENT       | Clerk#000000592 | 0 |
2364615    | 101876   | 0             | 1051.24     | 1996-06-03  | 1-URGENT       | Clerk#000000450 | 0 |
2383909    | 105200   | 0             | 1044.37     | 1998-03-12  | 1-URGENT       | Clerk#000000824 | 0 |
2459431    | 5533     | 0             | 1019.65     | 1995-11-15  | 1-URGENT       | Clerk#000000137 | 0 |
2685028    | 109360   | 0             | 1024.26     | 1997-09-23  | 1-URGENT       | Clerk#000000273 | 0 |
4442532    | 62309    | 0             | 1038.36     | 1998-02-02  | 1-URGENT       | Clerk#000000811 | 0 |
5859040    | 76096    | 0             | 1039.61     | 1996-01-02  | 1-URGENT       | Clerk#000000737 | 0 |
(10 rows)

Time: 1403.102 ms
```

## LINEITEM (8)

q11

(l\_shipdate > '1994-01-01') AND (l\_shipdate < '1994-01-07') AND (l\_discount > 0.04) AND (l\_discount < 0.07) AND (l\_quantity = 4.0)

```
(q11) select * from lineitem where l_shipdate > '1994-01-01' and l_shipdate < '1994-01-04' and l_discount > 0.05 and l_discount < 0.06 and l_quantity = 4.0;

tpch1g=# select * from lineitem where l_shipdate > '1994-01-01' and l_shipdate < '1994-01-04' and l_discount > 0.05 and l_discount < 0.06 and l_quantity = 4.0;
 l_orderkey | l_partkey | l_suppkey | l_linenum | l_quantity | l_extendedprice | l_discount | l_tax | l_returnflag | l_linestatus | l_shipmode |
-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
 629893    | 191666    | 1667       | 4          | 4           | 7030.64         | 0.06       | 0.08  | A             | F             | 1994-01-01
 987651    | 191424    | 1425       | 5          | 4           | 6061.68         | 0.05       | 0      | A             | F             | 1994-01-01
1334916    | 152761    | 307        | 1          | 4           | 7255.04         | 0.05       | 0.01  | A             | F             | 1994-01-01
1775014    | 9980      | 9981       | 2          | 4           | 7559.92         | 0.05       | 0.02  | A             | F             | 1994-01-01
1929446    | 79239     | 9249       | 2          | 4           | 4872.92         | 0.05       | 0.07  | A             | F             | 1994-01-01
1978016    | 7380      | 4881       | 7          | 4           | 5149.52         | 0.05       | 0.03  | A             | F             | 1994-01-01
2900837    | 179153    | 9154       | 1          | 4           | 4928.6          | 0.06       | 0      | R             | F             | 1994-01-01
3029670    | 185316    | 353        | 1          | 4           | 5605.24         | 0.05       | 0      | A             | F             | 1994-01-01
3081318    | 71366     | 6381       | 4          | 4           | 5349.44         | 0.06       | 0.07  | A             | F             | 1994-01-01
3331619    | 187601    | 120        | 2          | 4           | 6754.4          | 0.06       | 0.06  | A             | F             | 1994-01-01
3932192    | 92903     | 7922       | 1          | 4           | 7583.6          | 0.06       | 0      | A             | F             | 1994-01-01
4651430    | 87233     | 2250       | 2          | 4           | 4880.92         | 0.06       | 0.07  | R             | F             | 1994-01-01
4830688    | 178621    | 1139       | 4          | 4           | 6798.48         | 0.05       | 0.03  | R             | F             | 1994-01-01
4901252    | 118389    | 3412       | 3          | 4           | 5629.52         | 0.06       | 0.06  | A             | F             | 1994-01-01
5818855    | 5032      | 2533       | 6          | 4           | 3748.12         | 0.06       | 0.07  | R             | F             | 1994-01-01
(15 rows)

Time: 17306.200 ms
```

q12

(l\_orderkey > 100) AND (l\_orderkey < 1000) AND (l\_partkey > 100) AND (l\_partkey < 5000) AND (l\_shipmode = 'AIR') AND (l\_linestatus = 'F') AND (l\_tax < 0.07)

```
(q12) select * from lineitem where l_orderkey > 100 and l_orderkey < 1000 and l_partkey > 100 and l_partkey < 5000 and l_shipmode='AIR' and l_linestatus='F' and l_tax < 0.07;

tpch1g=# select * from lineitem where l_orderkey > 100 and l_orderkey < 1000 and l_partkey > 100 and l_partkey < 5000 and l_shipmode='AIR' and l_linestatus='F' and l_tax < 0.07;
 l_orderkey | l_partkey | l_suppkey | l_linenum | l_quantity | l_extendedprice | l_discount | l_tax | l_returnflag | l_linestatus | l_shipmode |
-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
 130        | 1739      | 4240       | 2          | 48          | 78755           | 0.03       | 0.02  | R             | F             | 1992-01-01
 194        | 2594      | 5095       | 1          | 17          | 25442           | 0.05       | 0.04  | R             | F             | 1992-01-01
(2 rows)

Time: 17641.131 ms
```