QUERY 2 - ESCOLHIDA

Estratégia equivalente utilizada: FULL JOIN

4	QUERY PLAN text
1	Aggregate (cost=873.18873.19 rows=1 width=160)
2	-> Merge Left Join (cost=242.03645.77 rows=11370 width=144)
3	Merge Cond: (e.idt_employee = a.idt_employee)
4	-> Merge Left Join (cost=214.34430.80 rows=6688 width=112)
5	Merge Cond: (e.idt_employee = es.idt_employee)
6	-> Merge Left Join (cost=186.64292.95 rows=3934 width=76)
7	Merge Cond: (e.idt_employee = m.idt_employee)
8	-> Merge Left Join (cost=158.94200.46 rows=2314 width=40)
9	Merge Cond: (e.idt_employee = d.idt_employee)
10	-> Sort (cost=131.25134.65 rows=1361 width=4)
11	Sort Key: e.idt_employee
12	-> Append (cost=0.0060.41 rows=1361 width=4)
13	-> Seq Scan on employee e (cost=0.000.00 rows=1 width=4)
14	-> Seq Scan on director e_1 (cost=0.0013.40 rows=340 width=4)
15	-> Seq Scan on manager e_2 (cost=0.0013.40 rows=340 width=4)
16	-> Seq Scan on especialist e_3 (cost=0.0013.40 rows=340 width=4)
17	-> Seq Scan on analyst e_4 (cost=0.0013.40 rows=340 width=4)
18	-> Sort (cost=27.7028.55 rows=340 width=36)
19	Sort Key: d.idt_employee
20	-> Seq Scan on director d (cost=0.0013.40 rows=340 width=36)
21	-> Sort (cost=27.7028.55 rows=340 width=36)
22	Sort Key: m.idt_emplayee
23	-> Seq Scan on manager m (cost=0.0013.40 rows=340 width=36)
24	-> Sort (cost=27.7028.55 rows=340 width=36)
25	Sort Key: es.idt_employee
26	-> Seq Scan on especialist es (cost=0.0013.40 rows=340 width=36)
27	-> Sort (cost=27.7028.55 rows=340 width=36)
28	Sort Key: a.idt_employee
29	-> Seq Scan on analyst a (cost=0.0013.40 rows=340 width=36)

4	QUERY PLAN text
1	Aggregate (cost=1244.841244.85 rows=1 width=160)
2	-> Hash Full Join (cost=70.601017.43 rows=11370 width=144)
3	Hash Cond: (e.idt_employee = a.idt_employee)
4	-> Hash Full Join (cost=52.95585.12 rows=6688 width=112)
5	Hash Cond: (e.idt_employee = es.idt_employee)
6	→ Hash Full Join (cost=35.30323.56 rows=3934 width=76)
7	Hash Cond: (e.idt_employee = m.idt_employee)
8	-> Hash Full Join (cost=17.65162.44 rows=2314 width=40)
9	Hash Cond: (e.idt_employee = d.idt_employee)
10	-> Append (cost=0.0060.41 rows=1361 width=4)
11	-> Seq Scan on employee e (cost=0.000.00 rows=1 width=4)
12	-> Seq Scan on director e_1 (cost=0.0013.40 rows=340 width=4)
13	-> Seq Scan on manager e_2 (cost=0.0013.40 rows=340 width=4)
14	-> Seq Scan on especialist e_3 (cost=0.0013.40 rows=340 width=4)
15	→ Seq Scan on analyst e_4 (cost=0.0013.40 rows=340 width=4)
16	-> Hash (cost=13.4013.40 rows=340 width=36)
17	-> Seq Scan on director d (cost=0.0013.40 rows=340 width=36)
18	-> Hash (cost=13.4013.40 rows=340 width=36)
19	-> Seq Scan on manager m (cost=0.0013.40 rows=340 width=36)
20	-> Hash (cost=13.4013.40 rows=340 width=36)
21	-> Seq Scan on especialist es (cost=0.0013.40 rows=340 width=36)
22	-> Hash (cost=13.4013.40 rows=340 width=36)
23	-> Seg Scan on analyst a (cost=0.0013.40 rows=340 width=36)

QUERY 2: LEFT JOIN QUERY 2: FULL JOIN

VS

Ao implementarmos a cláusula "FULL JOIN" como estratégia utilizada, é possível perceber que muitos dos "sorts" realizados na QUERY 2, que utiliza a cláusula "LEFT JOIN", não são necessários. Ambas realizam uma busca sequencial ("seq scan") seja após um "sort" ou após uma busca utilizando "Hash". Podemos então concluir que obtemos um custo menor utilizando a estratégia equivalente "FULL JOIN". As linhas afetadas bem como a janela se mantiveram constantes e com poucas diferenças entre ambas estratégias.