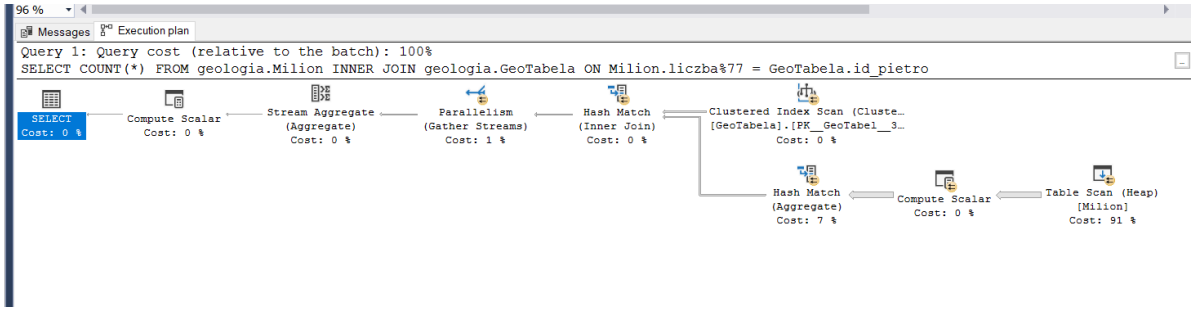
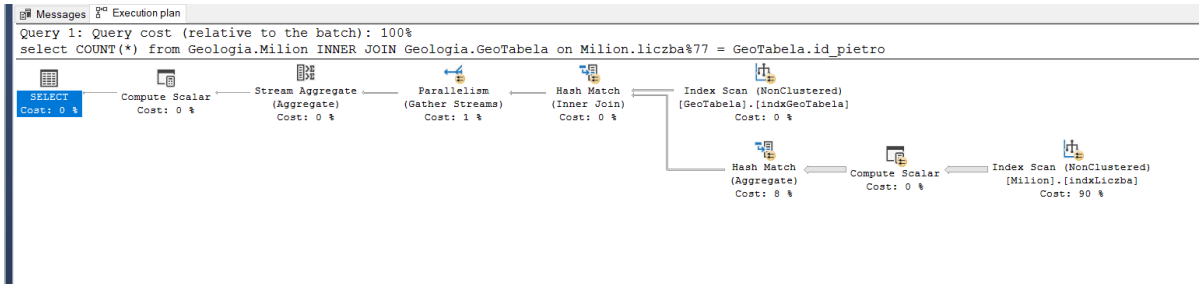
Query Cost

MS SQL Server

ZL1

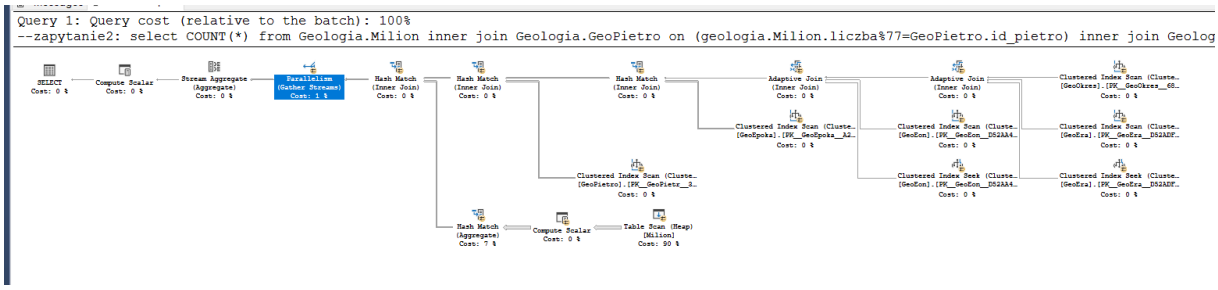


Rys.1 Query cost: zapytanie pierwsze bez indeksacji

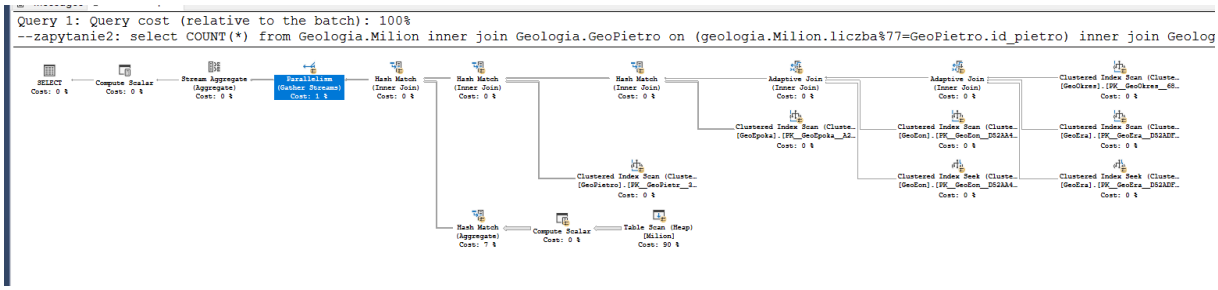


Rys. 1 Query cost: zapytanie pierwsze z indeksacją

ZL2

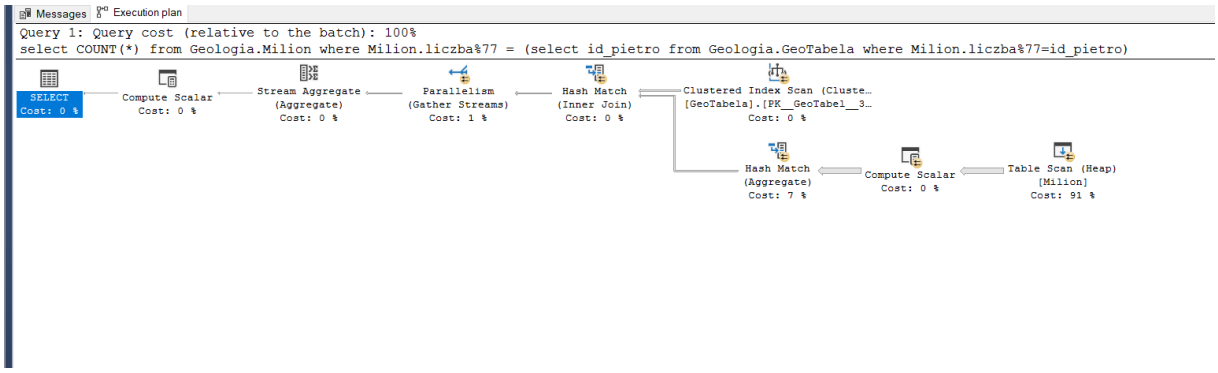


Rys. 2 Query cost: zapytanie drugie bez indeksacji

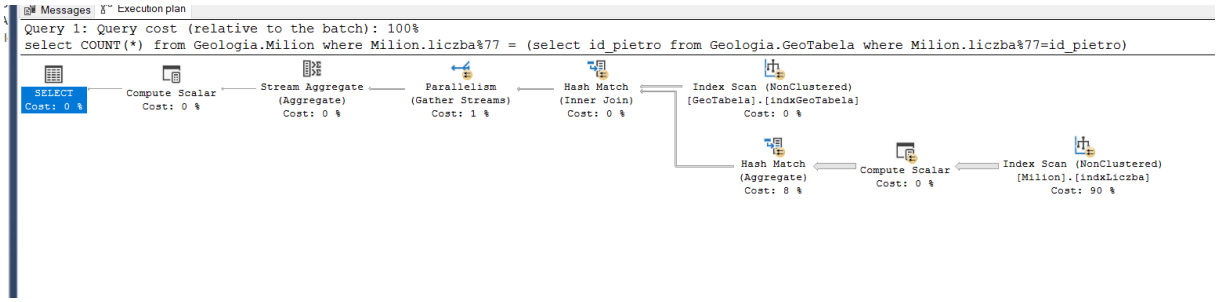


Rys. 3 Query cost: zapytanie drugie z indeksacją

ZG3

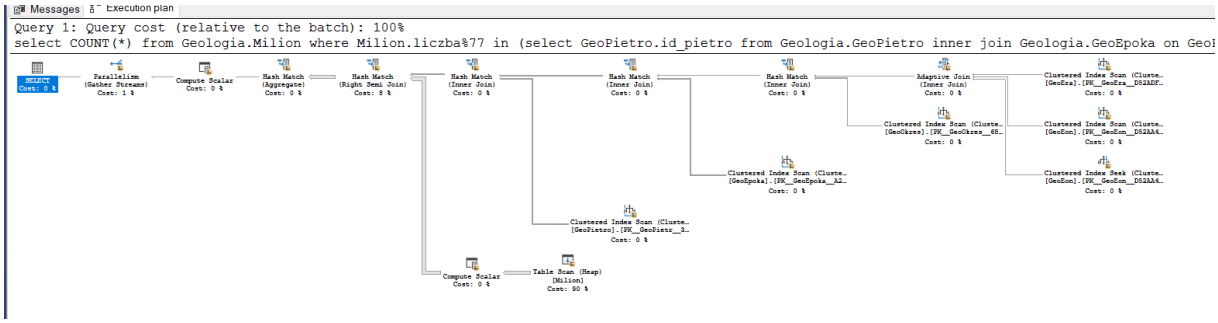


Rys. 4 Query cost: zapytanie trzecie bez indeksacji

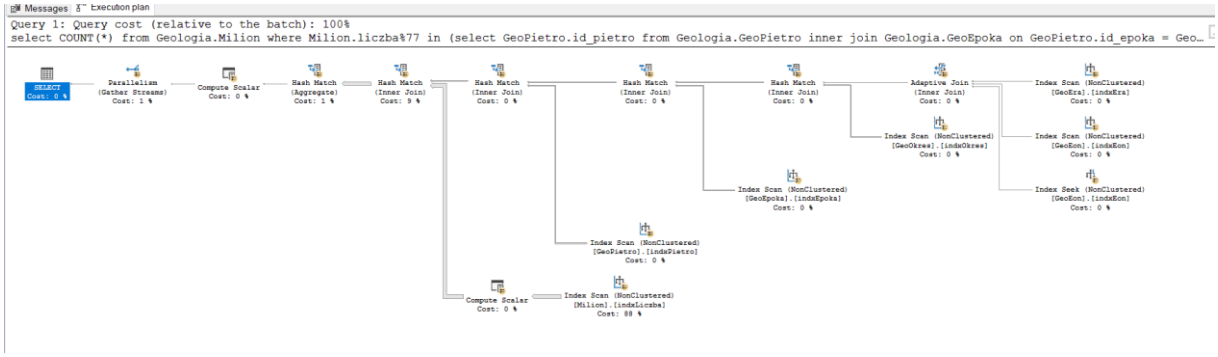


Rys. 5 Query cost: zapytanie trzecie z indeksacją

ZG4



Rys. 6 Query cost: zapytanie czwarte bez indeksacji

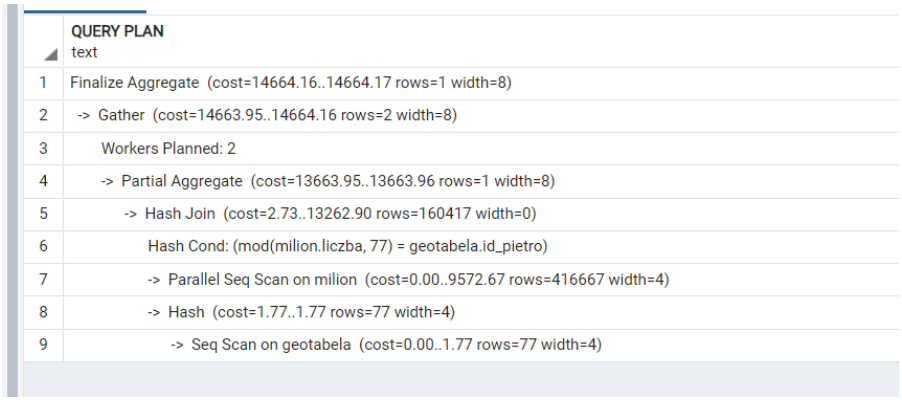


Rys. 7 Query cost: zapytanie czwarte z indeksacją

PostgreSQL

ZL1

Rys. 8 Query cost: zapytanie pierwsze bez indeksacji



Rys. 9 Query cost: zapytanie pierwsze z indeksacją

ZL2

	QUERY PLAN text
1	Finalize Aggregate (cost=13946.92..13946.93 rows=1 width=8)
2	-> Gather (cost=13946.70..13946.91 rows=2 width=8)
3	Workers Planned: 2
4	-> Partial Aggregate (cost=12946.70..12946.71 rows=1 width=8)
5	-> Hash Join (cost=107.31..12545.66 rows=160417 width=0)
6	Hash Cond: (geoera.id_eon = geoeon.id_eon)
7	-> Hash Join (cost=80.66..12095.50 rows=160417 width=4)
8	Hash Cond: (geookres.id_era = geoera.id_era)
9	-> Hash Join (cost=54.68..11645.92 rows=160417 width=4)
10	Hash Cond: (geoepoka.id_okres = geookres.id_okres)
11	-> Hash Join (cost=28.71..11196.33 rows=160417 width=4)
12	Hash Cond: (geopietro.id_epoka = geoepoka.id_epoka)
13	-> Hash Join (cost=2.73..10746.75 rows=160417 width=4)
14	Hash Cond: (mod(milion.liczba, 77) = geopietro.id_pietro)
15	-> Parallel Seq Scan on milion (cost=0.00..9572.67 rows=416667 width=4)
16	-> Hash (cost=1.77..1.77 rows=77 width=8)
17	-> Seq Scan on geopietro (cost=0.00..1.77 rows=77 width=8)
18	-> Hash (cost=17.10..17.10 rows=710 width=8)
19	-> Seq Scan on geoepoka (cost=0.00..17.10 rows=710 width=8)
20	-> Hash (cost=17.10..17.10 rows=710 width=8)
21	-> Seq Scan on geookres (cost=0.00..17.10 rows=710 width=8)
22	-> Hash (cost=17.10..17.10 rows=710 width=8)
23	-> Seq Scan on geoera (cost=0.00..17.10 rows=710 width=8)
24	-> Hash (cost=17.40..17.40 rows=740 width=4)
25	-> Seq Scan on geoeon (cost=0.00..17.40 rows=740 width=4)

Rys. 10 Query cost: zapytanie drugie bez indeksacji

	QUERY PLAN text
1	Finalize Aggregate (cost=13912.92..13912.93 rows=1 width=8)
2	-> Gather (cost=13912.70..13912.91 rows=2 width=8)
3	Workers Planned: 2
4	-> Partial Aggregate (cost=12912.70..12912.71 rows=1 width=8)
5	-> Hash Join (cost=7.61..12511.66 rows=160417 width=0)
6	Hash Cond: (geoepoka.id_okres = geookres.id_okres)
7	-> Hash Join (cost=4.23..11250.46 rows=160417 width=4)
8	Hash Cond: (geopietro.id_epoka = geoepoka.id_epoka)
9	-> Hash Join (cost=2.73..10746.75 rows=160417 width=4)
10	Hash Cond: (mod(milion.liczba, 77) = geopietro.id_pietro)
11	-> Parallel Seq Scan on milion (cost=0.00..9572.67 rows=416667 width=4)
12	-> Hash (cost=1.77..1.77 rows=77 width=8)
13	-> Seq Scan on geopietro (cost=0.00..1.77 rows=77 width=8)
14	-> Hash (cost=1.22..1.22 rows=22 width=8)
15	-> Seq Scan on geoepoka (cost=0.00..1.22 rows=22 width=8)
16	-> Hash (cost=3.27..3.27 rows=9 width=4)
17	-> Hash Join (cost=2.09..3.27 rows=9 width=4)
18	Hash Cond: (geoera.id_eon = geoeon.id_eon)
19	-> Hash Join (cost=1.07..2.19 rows=9 width=8)
20	Hash Cond: (geookres.id_era = geoera.id_era)
21	-> Seq Scan on geookres (cost=0.00..1.09 rows=9 width=8)
22	-> Hash (cost=1.03..1.03 rows=3 width=8)
23	-> Seq Scan on geoera (cost=0.00..1.03 rows=3 width=8)
24	-> Hash (cost=1.01..1.01 rows=1 width=4)
25	-> Seq Scan on geoeon (cost=0.00..1.01 rows=1 width=4)

Rys. 11 Query cost: zapytanie drugie z indeksacją

ZG3

Data Output | Explain | Messages | Notifications

	QUERY PLAN text
1	Aggregate (cost=2175418.50..2175418.51 rows=1 width=8)
2	-> Seq Scan on milion (cost=0.00..2175406.00 rows=5000 width=0)
3	Filter: (mod(liczba, 77) = (SubPlan 1))
4	SubPlan 1
5	-> Seq Scan on geotabela (cost=0.00..2.16 rows=1 width=4)
6	Filter: (mod(milion.liczba, 77) = id_pietro)

Rys. 12 Query cost: zapytanie trzecie bez indeksacji

	QUERY PLAN text
1	Aggregate (cost=2175418.50..2175418.51 rows=1 width=8)
2	-> Seq Scan on milion (cost=0.00..2175406.00 rows=5000 width=0)
3	Filter: (mod(liczba, 77) = (SubPlan 1))
4	SubPlan 1
5	-> Seq Scan on geotabela (cost=0.00..2.16 rows=1 width=4)
6	Filter: (mod(milion.liczba, 77) = id_pietro)

Rys. 13 Query cost: zapytanie trzecie z indeksacją

ZG4

Data Output | Explain | Messages | Notifications

	QUERY PLAN text
1	Finalize Aggregate (cost=12743.44..12743.45 rows=1 width=8)
2	InitPlan 1 (returns $3)
3	-> Nested Loop (cost=3.18..82.01 rows=77 width=4)
4	-> Nested Loop (cost=3.03..63.91 rows=77 width=8)
5	-> Nested Loop (cost=2.88..45.81 rows=77 width=8)
6	-> Hash Join (cost=2.73..27.70 rows=77 width=8)
7	Hash Cond: (geoepoka.id_epoka = geopietro.id_epoka)
8	-> Seq Scan on geoepoka (cost=0.00..17.10 rows=710 width=8)
9	-> Hash (cost=1.77..1.77 rows=77 width=8)
10	-> Seq Scan on geopietro (cost=0.00..1.77 rows=77 width=8)
11	-> Index Scan using geookres_pkey on geookres (cost=0.15..0.24 rows=1 width=8)
12	Index Cond: (id_okres = geoepoka.id_okres)
13	-> Index Scan using geoera_pkey on geoera (cost=0.15..0.24 rows=1 width=8)
14	Index Cond: (id_era = geookres.id_era)
15	-> Index Only Scan using geoeon_pkey on geoeon (cost=0.15..0.24 rows=1 width=4)
16	Index Cond: (id_eon = geoera.id_eon)
17	-> Gather (cost=12661.21..12661.42 rows=2 width=8)
18	Workers Planned: 2
19	Params Evaluated: $3
20	-> Partial Aggregate (cost=11661.21..11661.22 rows=1 width=8)
21	-> Parallel Seq Scan on milion (cost=0.00..11656.00 rows=2083 width=0)
22	Filter: (mod(liczba, 77) = $3)

Rys. 14 Query cost: zapytanie trzecie bez indeksacji

	QUERY PLAN text
1	Finalize Aggregate (cost=12668.93..12668.94 rows=1 width=8)
2	InitPlan 1 (returns $0)
3	-> Hash Join (cost=4.88..7.50 rows=77 width=4)
4	Hash Cond: (geoepoka.id_okres = geookres.id_okres)
5	-> Hash Join (cost=1.50..3.51 rows=77 width=8)
6	Hash Cond: (geopietro.id_epoka = geoepoka.id_epoka)
7	-> Seq Scan on geopietro (cost=0.00..1.77 rows=77 width=8)
8	-> Hash (cost=1.22..1.22 rows=22 width=8)
9	-> Seq Scan on geoepoka (cost=0.00..1.22 rows=22 width=8)
10	-> Hash (cost=3.27..3.27 rows=9 width=4)
11	-> Hash Join (cost=2.09..3.27 rows=9 width=4)
12	Hash Cond: (geoera.id_eon = geoeon.id_eon)
13	-> Hash Join (cost=1.07..2.19 rows=9 width=8)
14	Hash Cond: (geookres.id_era = geoera.id_era)
15	-> Seq Scan on geookres (cost=0.00..1.09 rows=9 width=8)
16	-> Hash (cost=1.03..1.03 rows=3 width=8)
17	-> Seq Scan on geoera (cost=0.00..1.03 rows=3 width=8)
18	-> Hash (cost=1.01..1.01 rows=1 width=4)
19	-> Seq Scan on geoeon (cost=0.00..1.01 rows=1 width=4)
20	-> Gather (cost=12661.21..12661.42 rows=2 width=8)
21	Workers Planned: 2
22	Params Evaluated: $0
23	-> Partial Aggregate (cost=11661.21..11661.22 rows=1 width=8)
24	-> Parallel Seq Scan on milion (cost=0.00..11656.00 rows=2083 width=0)
25	Filter: (mod(liczba, 77) = $0)

Rys. 15 Query cost: zapytanie czwarte z indeksacją