

Homework 9

1 Part 1

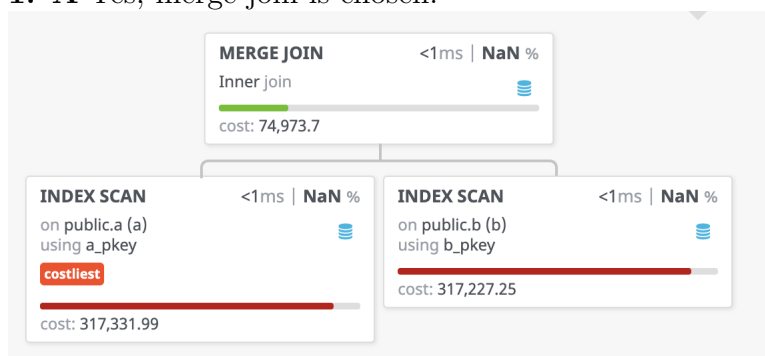
Local		AWS	
Seconds	Bandwidth	Seconds	Bandwidth
115.4	11.1 Mbytes/second	95096.3	13.9 Kbytes/second

2 Part 2

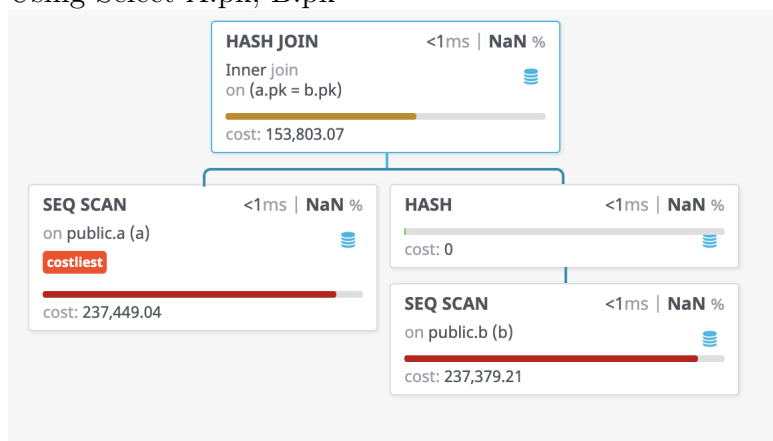
30 million rows

7680000000 bytes or 7.15 Gbytes

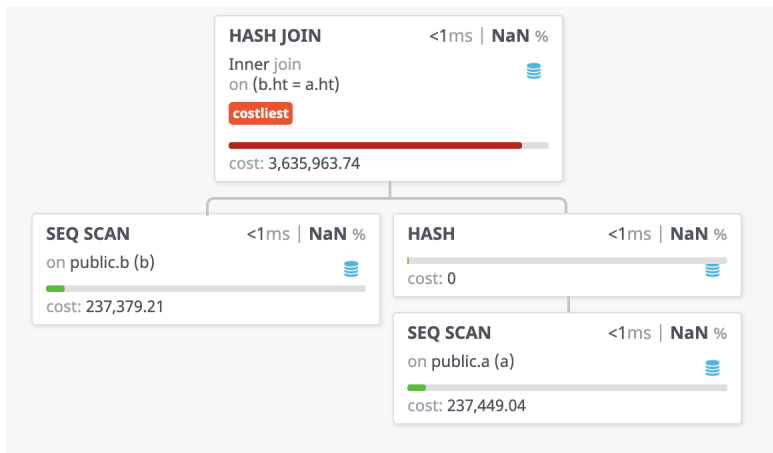
1. A Yes, merge-join is chosen.



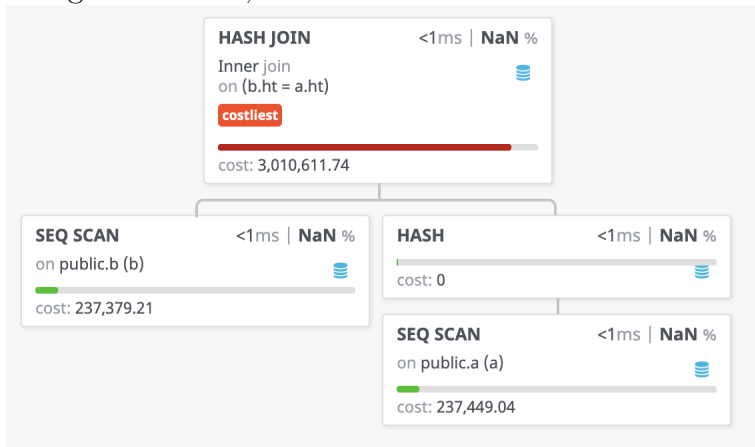
Using Select A.pk, B.pk



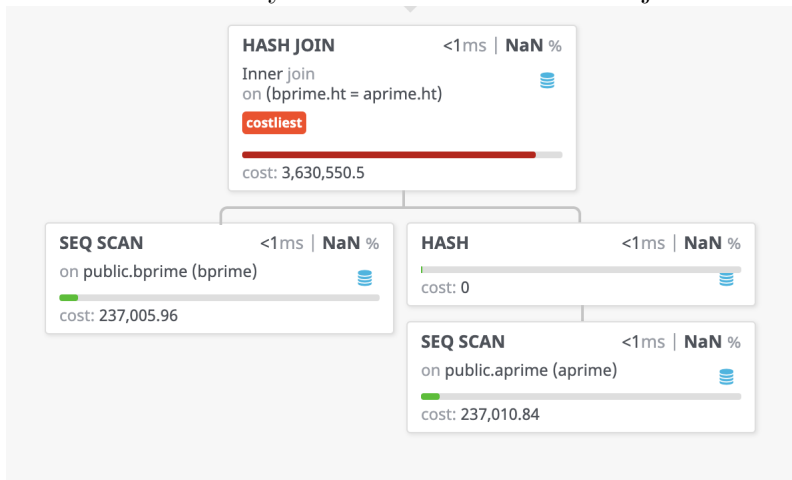
2. B Hash Join



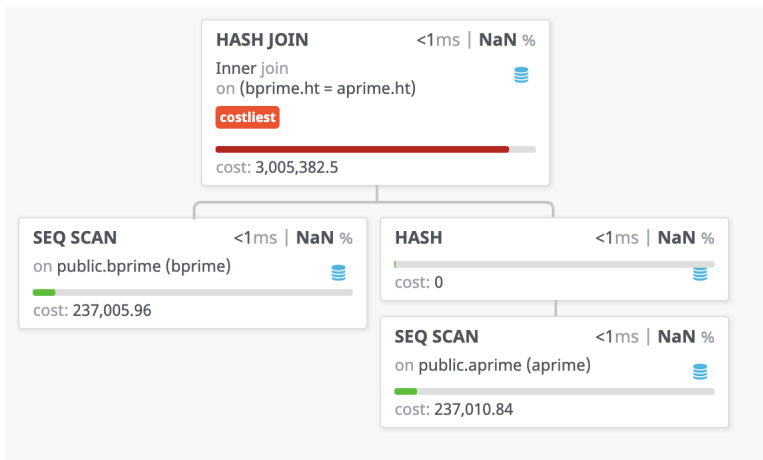
Using Select A.ht, B.ht



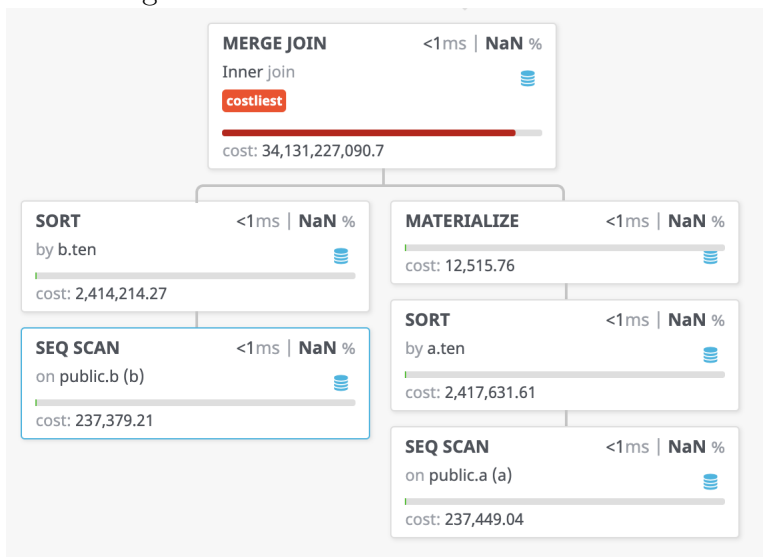
3. C The secondary index does not affect the join order and algorithm for this value.



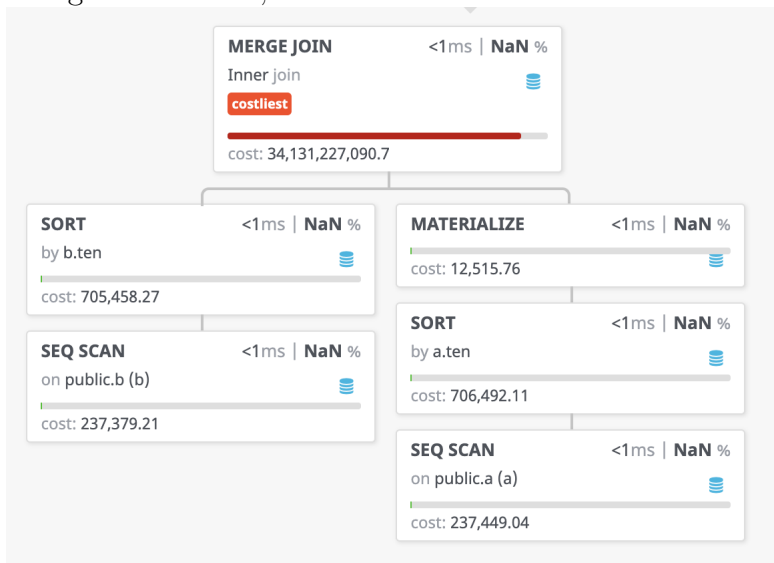
Using Select Aprime.ht, Bprime.ht



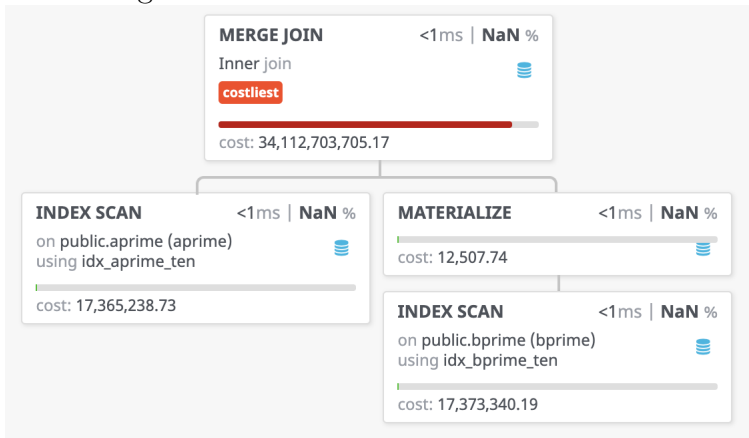
4. D Merge Join was used



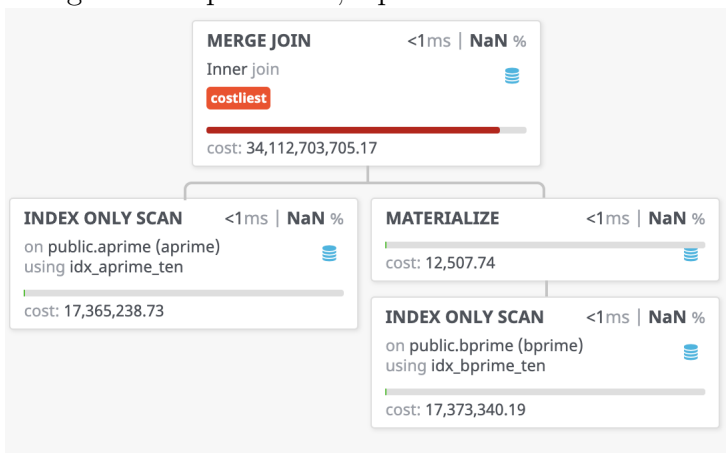
Using Select A.ten, B.ten



5. E Merge Join was used.

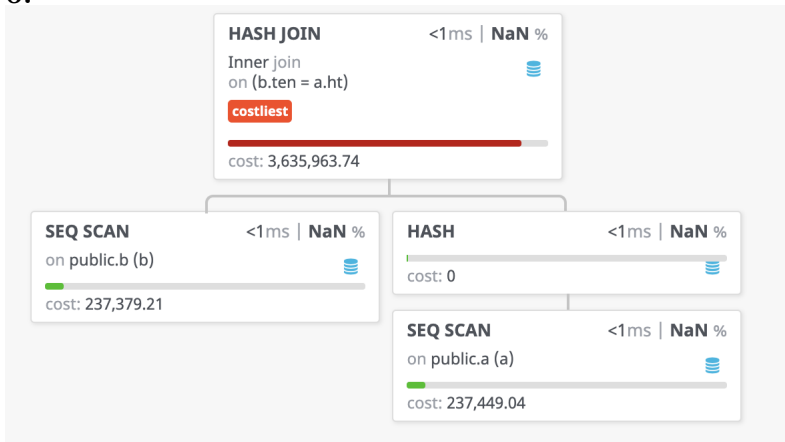


Using Select Aprime.ten, Bprime.ten

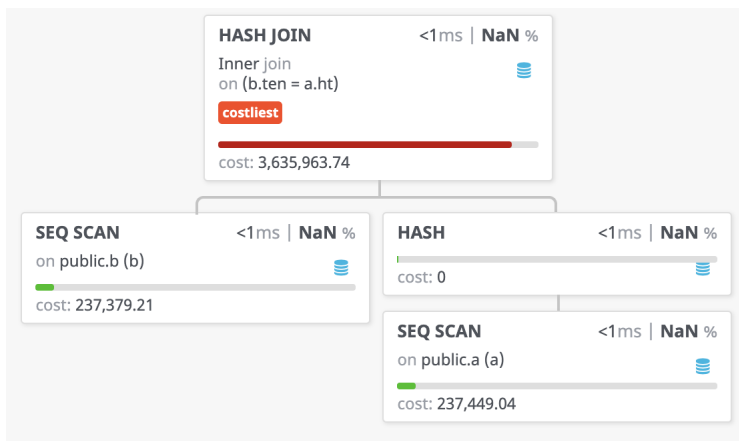


F Yes the optimizer ignores the order I wrote the query, and does its own order independently.

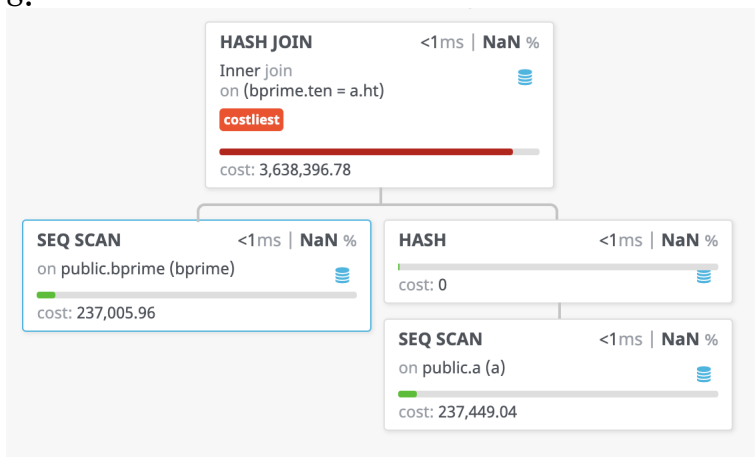
6.



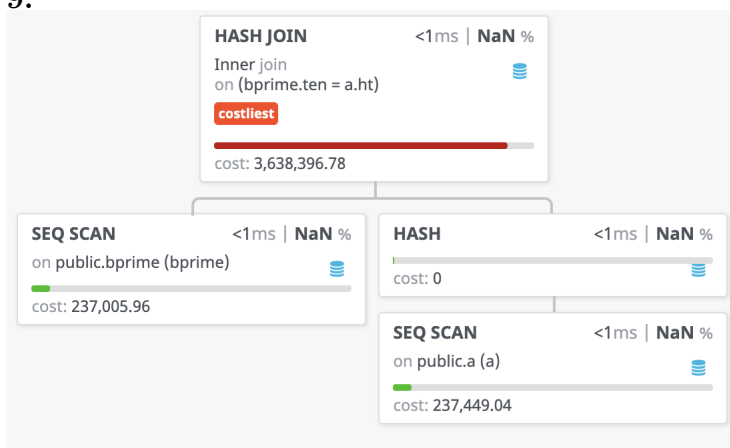
7.



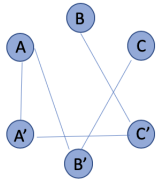
G The optimizer still does its own order for joins independent of how I wrote the query.
 8.



9.

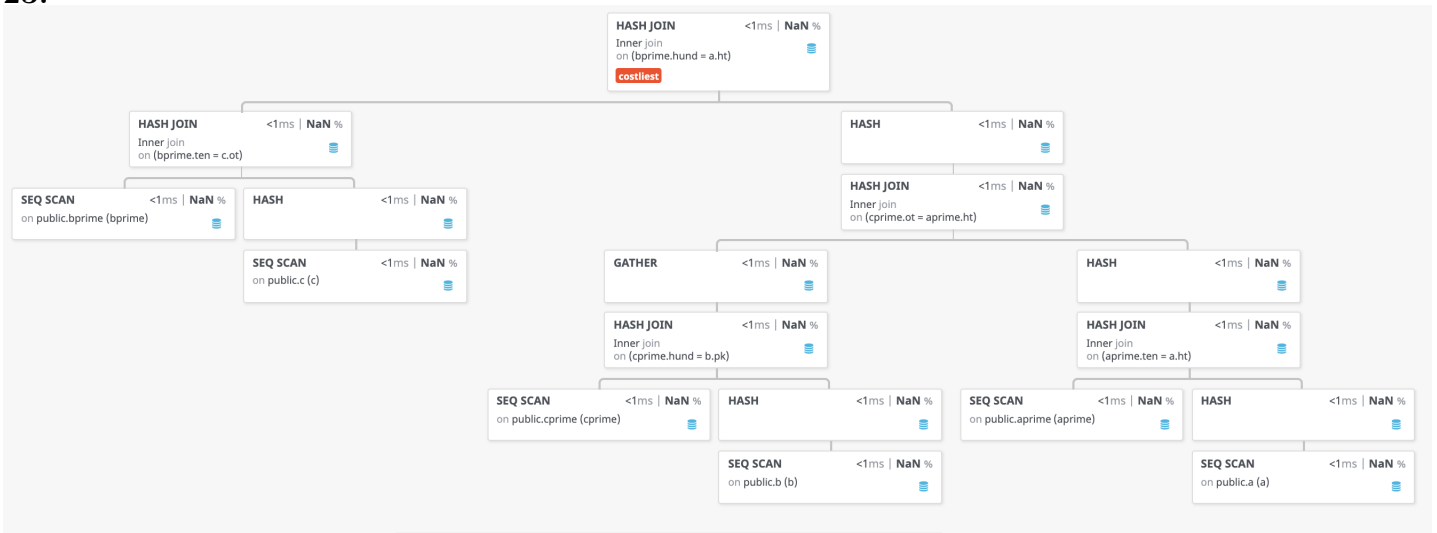


H.

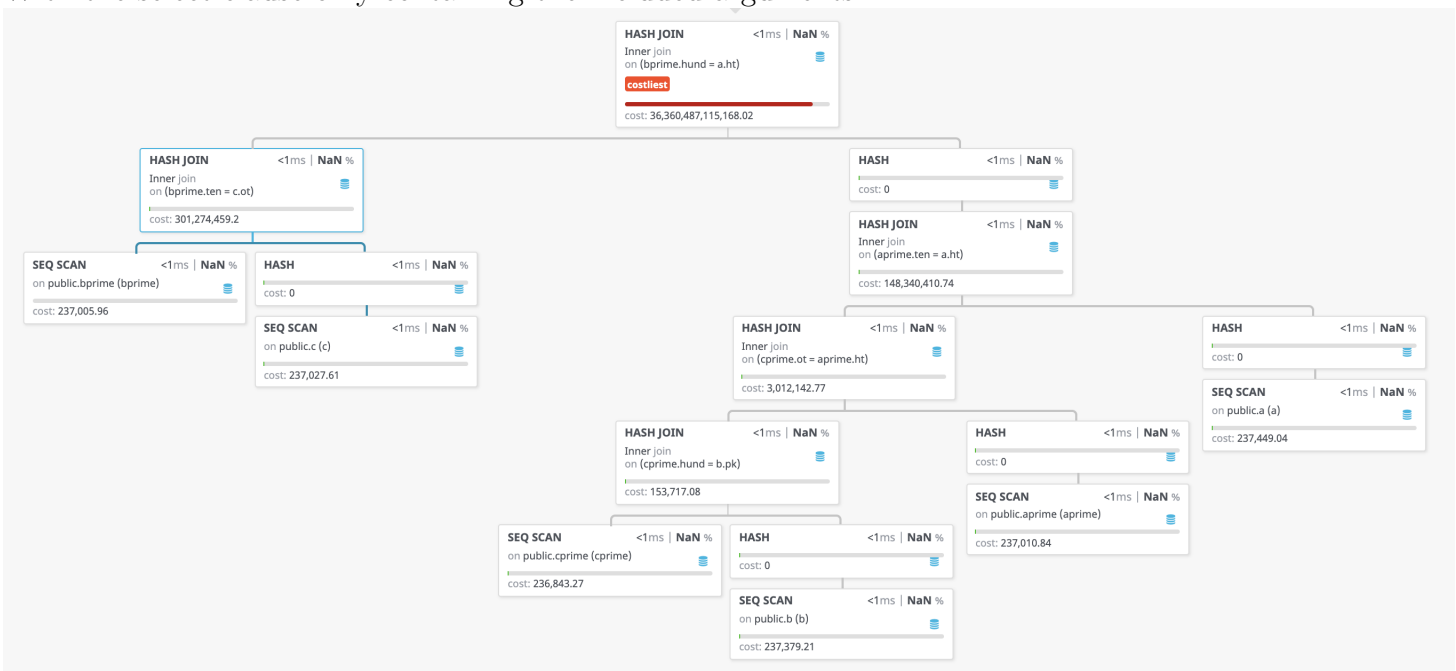


I.
3231988424291524 rows

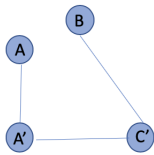
23.



With the select clause only containing the included arguments

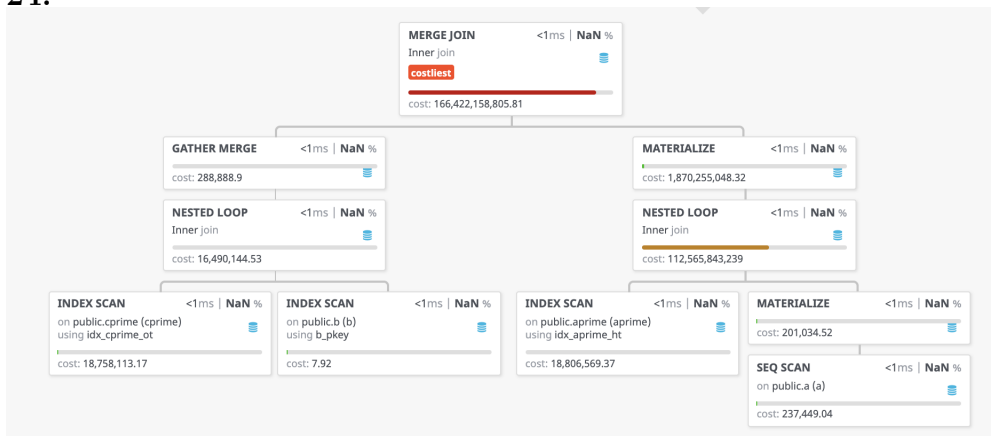


H.



I.
18897218018647 rows

24.



With the select clause only containing the included arguments

