Roll: 1605023

Name: Afmain Yasar Ahmed Sahil

Subject: CSE 453

Date: 2021.6.22

## Ans to the gues No. 1

a. This query is a joining operation. Since the range partitioning attribute and joining query attribute are same, we don't need to repartition the two relations here. Just local joining of partitions will be enough.

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## steps

- i. ci Me.e-id=s.c-id Si where i & [1,5].
- b. This query is a range-selection operation. Since, the range partitioning and selection query attribute are same, once again, we don't need to repartition relation customer here

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i. Since we need to select customer tuples with c-id < 300000, as par the partitioning vector, only N1, N2, N3 will participate in selection query as N1 & 177717, 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 177717 < 17

Ans to the gues No. 2

Here, the partitioning and the joining attributes are same. So, we don't need to repartition the relations.

Also, Ny and N5 will participate in local joining of partititions as c.e-id >333333 is set.

so, Ny and N5 can do joining locally in independent

parallelism manner and then, their results can be joined at N3 in pipelined parallelism manner to reduced execution/response time.

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Ans to the ques No. 3 will import of bour I wood on allegen

The given query is a sorting operation where partitioning and sorting attributes are same. So, no repartitioning is required. Daly, local, sort at each node will be enough. Otherwise, we can do this by either range partitioning or parallel ent sort-merge with excha operator.

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11. parallel ent. sort-merge I. range part. sort

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range p. WITK sing opt. (quantity) Ti. local Sort

SI (local sort) > Si (merge) Sz (")1\_ (nches) - Szl (") S2 ( ) - 9,3 ( " ) - 9,3 ( " ) - 9,3 ( " )

> i. local sort by quantity ordered merge with

richa operator