Assignment 2 Part 2

Started: 4 Mar at 15:38

Quiz instructions

Assignment 2 handout <u>cs3223_assign2.pdf (https://canvas.nus.edu.sg/courses/38601/files/1098446?</u>
wrap=1) https://canvas.nus.edu.sg/courses/38601/files/1098446/download?download_frd=1)

This is an **individual assignment** to be submitted by each student.

Answer the following five questions based on the results of your query plan executions.

Question 1	2 pts
Choose all the statements that are true about your results for Part A.	
☐ IS-cb accessed fewer index pages than BIS-cb.	
☐ IS-cb accessed more index pages than BIS-cb.	
☑ Both IS-cb and BIS-cb accessed the same number of index pages.	
☐ The bitmap heap scan did not reduce the number of heap pages scanned. Due to overhead incurred by the bitmap heap scan, IS-cb outperformed BIS-cb.	the
✓ The bitmap heap scan reduced the number of heap pages scanned, and BIS-cb outperformed IS-cb.	

Question 2	2 pts
Choose all the statements that are true about your results for Part B.	
☐ BIS-c performed the best.	
✓ IOS-cb performed the best.	
☐ IS-c performed the best.	
☐ BIS-c performed the worst.	

☐ IOS-cb performed the worst.			
	✓ IS-c performed the worst.		
	Question 3 2 pts		
	Let Nb, Nc, and Ncb, denote, respectively, the number of leaf data entries that satisfy the primary conjuncts of Query C with respect to the indexes b_idx, c_idx, and cb_idx.		
	Choose all the statements that are true about your results for Part C.		
	□ Nb < Ncb.		
	✓ Nb > Ncb.		
	□ Nc < Ncb.		
	✓ Nc > Ncb.		
	✓ BIS-cb outperformed ABIS-b-c.		
	☐ ABIS-b-c outperformed BIS-bb.		
	Question 4 2 pts		
	Let Nb, Nc, and Ncb, denote, respectively, the number of leaf data entries that satisfy the primary conjuncts of Query D with respect to the indexes b_idx, c_idx, and cb_idx.		
	Choose all the statements that are true about your results for Part D.		
	□ Nb < Nc		
	✓ Nb > Nc		
	☐ Nb < Ncb		
	✓ Nb > Ncb		

☐ Nc < Ncb
✓ Nc > Ncb
SS performed the worst
✓ IS-b performed the worst
☐ IS-c performed the worst
☐ IS-cb performed the worst
☐ BIS-b performed the worst
☐ BIS-c performed the worst
☐ BIS-cb performed the worst
☐ ABIS-b-c performed the worst

Question 5 2 pts

Write an instance of Query E such that the plan IS-b outperforms the plan BIS-cb in terms of the average execution time.

Your answer must be of the form: select * from r where b OPb Vb and c OPc Vc

select * from r where b = 9 and c > 0

Saved at 16:03

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