CS186 Vitamin #6

* Required

Query Optimization

((A join B) join C) join D
A join (B join (C join D))
(A join B) join (C join D)

Assume that the optimizer	follows a System-R style implementation for all applicable questions.
	es a large reduction factor, the output of the query will have fewer a small reduction factor. *
True False	
a equiwidth histogra	oth histogram gives better resolution on low-frequency entries than am. * iled information for these entries.
True False	
3. Q3: When doing a creplans do we consider Mark all that apply. Check all that apply.	ross join on tables A, B, C, and D, which of the following query er? *
None of the abo	ve
(A join (B join C)) join D
A join ((B join C) join D)

4. Q4: Which of the following access or join methods will result in an interesting order in a query where we require the output to be sorted? * Check all that apply.		
File scan		
Sort-Merge Join		
Block-Nested Loops Join Clustered Index Traversal		
Suppose that we have three tables, R, S, and T. We are running the following query:		
SELECT * FROM R, S, T		
WHERE R.a = S.a		
AND $S.b = T.b$;		
Assume that our database has no indices and that none of the relations are sorted in any interesting or useful way. Since we only have one possible single-table access method for each table, we ignore the costs of accessing a single table.		
Assume that all provided join costs are for the optimal join algorithm for that join.		
These are the two-table join costs: 1) R join S = 6,000 2) S join R = 2,000 3) R join T = 5,000 4) T join R = 1,000 5) S join T = 4,000 6) T join S = 3,000		
5. Q5: Which of the following two-table join plans will be selected? *		
Check all that apply.		
We now add the third table and have the following join costs: 1) (R join S) join T = 10,000 2) T join (R join S) = 6,000 3) (S join R) join T = 15,000 4) T join (S join R) = 11,000 5) (R join T) join S = 10,000 6) S join (R join T) = 7,000		

7) (T join R) join S = 14,000 8) S join (T join R) = 16,000 9) (S join T) join R = 13,000 10) R join (S join T) = 12,000 11) (T join S) join R = 20,000	
12) R join (T join S) = 9,000	
6. Q6: Which of these wil l Mark only one oval.	I the optimizer select as your final query plan? *
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