CSE427SLAB1



CSE427s - 5 Lab5 80% (4/5)

1. What is the output of the first MapReduce Job for the given data? Compute the actual keys and values.

Separate multiple key-value pairs by; E.g. (key1, value1); (key3, value5); etc.

This question will be graded by the TA.

(item1,1);
(item2,4);
(item3,3);
(item4,2);
(item5,1);
(item6,1);

user-id	item-id
user1	item1
user1	item2
user1	item3
user2	item3
user2	item2
user3	item2
user3	item4
user4	item5
user4	item6
user5	item3
user5	item4
user5	item2

2. Now let's assume that our second job runs two Mappers. The first Mapper gets the records for item1, item2, and item6. What is the output of this Mapper for a top-2 list?

Separate multiple key-value pairs by;

This question will be graded by the TA.

(_, (item1,1)); (_ (item2,4))

3. The second Mapper gets the records for item3, item4, and item5. What is the output of this Mapper for a **top-2 list**?

Separate key-value pairs by;

This question will be graded by the TA.

(_, (item3, 3); (_, (item4, 2)

- ✓ 4. What do the Mappers of job 2 compute?
 - (A) Item occurrences
 - (B) Item counts
 - local top-N lists
 - D aggregated (global) top-N list
 - (E) none of the above

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0	5.	Now, let's do the Reduce Tasks. What is your final top-2 list?	
	Separate key-value pairs by ;		
This question will be graded by the TA.			
		(item3,3);(item2,4)	
/	6.	What does the single Reducer of job 2 compute?	
	\bigcirc A	Item occurrences	
	$\overline{\mathbb{B}}$	Item counts	
	(c)	local top-N lists	
	D	aggregated (global) top-N list	
	E	none of the above	
/		Can the Rducer be used as a Combiner? Identify the true statement below. te that Combiners combine the Mapper output of <u>all</u> Map Tasks that run on the ne compute node.	
	A	The Reducer of job 1 (aggregate item counts) can be used as a Combiner.	
	\bigcirc B	The Reducer of job 2 (producing top-N-list based on counts) can be used as a Combiner.	
	C	The Reducers of both jobs can be used as Combiners.	
	D	The Reducers of none of the jobs can be used as Combiners.	
/	8. (A)	Using a Combiner will speed up the execution of your entire MapReduce job.	
	B	will help to resolve memory issues of your MapReduce job.	
		will reduce the amount of data being transfered across the network	

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