Quiz 3 Spatial Data Management Name: Student ID:

Diagram

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1. (2pt) Concerning the above figure, where does a MapReduce program store 1. Input data, 2. Intermediate files, and 3. Output data?
2. (1pt) Why is that when map workers fail, the tasks that are completed or in-progress at map workers are reset to idle and rescheduled but only in-progress tasks are reset to idle when reduce worker fails?
3. (3 pts) Write the Map and Reduce tasks and their output for joining these two tables: (Pseudocode is fine)

Text

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1. (2pts) Please briefly explain what lazy transformation is and why Spark has it.
2. (2pts) Please briefly explain what a combiner is (including where it runs) and why we need it.