CS5644

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Assignment 5

Class Mapper

def map(key, value):

//key: name or id of parsed dataset (or document); value: text of the dataset;

for nodes in value:

emit(nodes.name, nodes.connected\_node)

//nodes.name is the name or id of a particular node;

//nodes.connected\_node is a single neighbor node that is connected to //the nodes (which have nodes.name as the name of the node)

//if node A is connected to 3 nodes that will result in 3 return values.

Class Reducer:

def reduce(key, value):

//key:  name of a node, value: an iterator over counts from group by key.

Result = 0;

for count v in value:

Result = result + 1

emit (key, result)