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simplicity, we focus on the basic element, such as temperature which are always present and are of fixed width.

5 Map Reduce program execution explanation

MapReduce works by breaking the processing into two phases, the map phase and the reduce phase Each phase has key-10 value as input and output. The Enput to our map phase is now NCDC data . We choose text input format that gives us each line in the dataset as a text-value. The key is the offset of the beginning of the line from the beginning 15 of the file . We pull out year and temperature in our map punction. The output from the map function is processed by Mapkeduce framework before being sent to the reduce function. This processing 20 sorts and groups the key-value pair by key so that each year will come with all liet of its temperature. Au reduce function is to now do is iterate through the list and add it to sum and then

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3335	divide by court of list to get average temperature of the year and then we will compare average with min and max If and according set values of min and				
Anna an					
5	max and atte	cast value of	min and max		
-0-	year will be given as output.				
	Map	Shuffle	Reduce		
10	i	1,,00,	(1948, E50])		
	Dataset >	1 40/0	(1949, [20,111]) (1950, [0,22,-11])		
15	Input map Sort				
-Ay		(1950, 3)	(1949, 50)		
		Output	(1950, 3)		
20 Fig: MapReduce Ingical data from					

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	Conclusion:	coment There 11	mentood the use			
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VAR	of various aggregate functions using mapkeduce and successfully designed and developed a distributed					
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