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| import java.io.\*; |
|  | import org.apache.hadoop.io.Text; |
|  | import org.apache.hadoop.io.LongWritable; |
|  | import org.apache.hadoop.io.IntWritable; |
|  | import org.apache.hadoop.mapreduce.Job; |
|  | import org.apache.hadoop.mapreduce.Mapper; |
|  | import org.apache.hadoop.mapreduce.Reducer; |
|  | import org.apache.hadoop.conf.\*; |
|  | import org.apache.hadoop.fs.\*; |
|  | import org.apache.hadoop.mapreduce.lib.input.\*; |
|  | import org.apache.hadoop.mapreduce.lib.output.\*; |
|  |  |
|  |  |
|  | public class bookcount { |
|  |  |
|  | public static class MapClass extends Mapper<LongWritable,Text,Text, IntWritable> |
|  | { |
|  |  |
|  | public void map(LongWritable key, Text value, Context context) |
|  | throws IOException, InterruptedException { |
|  | try { |
|  | String[] str = value.toString().split(","); |
|  | context.write(new Text(str[2]),new IntWritable(1)); |
|  |  |
|  | } |
|  | catch(Exception e) |
|  | { |
|  | System.out.println(e.getMessage()); |
|  | } |
|  |  |
|  | } |
|  | } |
|  |  |
|  | public static class ReduceClass extends Reducer<Text,IntWritable,Text,IntWritable> |
|  | { |
|  | private IntWritable result = new IntWritable(); |
|  |  |
|  | public void reduce(Text key, Iterable<IntWritable> values,Context context) throws IOException, InterruptedException { |
|  | int sum =0; |
|  | for(IntWritable val:values) |
|  | { |
|  | sum += val.get(); |
|  | } |
|  | result.set(sum); |
|  | context.write(key,result); |
|  | } |
|  | } |
|  | public static void main(String[] args) throws Exception { |
|  | Configuration conf = new Configuration(); |
|  | //conf.set("name", "value") |
|  | Job job = Job.getInstance(conf, "Book count"); |
|  | job.setJarByClass(bookcount.class); |
|  | job.setMapperClass(MapClass.class); |
|  | //job.setCombinerClass(ReduceClass.class); |
|  | job.setReducerClass(ReduceClass.class); |
|  | job.setNumReduceTasks(2); |
|  | job.setMapOutputKeyClass(Text.class); |
|  | job.setMapOutputValueClass(IntWritable.class); |
|  | job.setOutputKeyClass(Text.class); |
|  | job.setOutputValueClass(IntWritable.class); |
|  | FileInputFormat.addInputPath(job, new Path(args[0])); |
|  | FileOutputFormat.setOutputPath(job, new Path(args[1])); |
|  | System.exit(job.waitForCompletion(true) ? 0 : 1); |
|  | } |
|  | } |
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