|  |  |
| --- | --- |
|  | |
| import java.io.\*; |
|  |  |
|  | import org.apache.hadoop.io.DoubleWritable; |
|  | import org.apache.hadoop.io.Text; |
|  | import org.apache.hadoop.io.LongWritable; |
|  | 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 exchange1 { |
|  |  |
|  | public static class MapClass extends Mapper<LongWritable,Text,Text,LongWritable> |
|  | { |
|  | public void map(LongWritable key, Text value, Context context) |
|  | { |
|  | try{ |
|  | String[] str = value.toString().split(","); |
|  | long vol = Long.parseLong(str[7]); |
|  | context.write(new Text(str[1]),new LongWritable(vol)); |
|  |  |
|  | } |
|  | catch(Exception e) |
|  | { |
|  | System.out.println(e.getMessage()); |
|  | } |
|  | } |
|  | } |
|  |  |
|  | public static class ReduceClass extends Reducer<Text,LongWritable,Text,DoubleWritable> |
|  | { |
|  | private DoubleWritable result = new DoubleWritable(); |
|  |  |
|  | public void reduce(Text key, Iterable<LongWritable> values,Context context) throws IOException, InterruptedException { |
|  | long sum = 0; |
|  |  |
|  | for (LongWritable val : values) |
|  | { |
|  | sum += val.get(); |
|  |  |
|  | } |
|  |  |
|  | double newsum= ((double)sum/1000000); |
|  | result.set(newsum); |
|  | 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, "Volume Count"); |
|  | job.setJarByClass(exchange1.class); |
|  | job.setMapperClass(MapClass.class); |
|  | //job.setCombinerClass(ReduceClass.class); |
|  | job.setReducerClass(ReduceClass.class); |
|  | //job.setNumReduceTasks(2); |
|  | job.setMapOutputKeyClass(Text.class); |
|  | job.setMapOutputValueClass(LongWritable.class); |
|  | job.setOutputKeyClass(Text.class); |
|  | job.setOutputValueClass(DoubleWritable.class); |
|  | FileInputFormat.addInputPath(job, new Path(args[0])); |
|  | FileOutputFormat.setOutputPath(job, new Path(args[1])); |
|  | System.exit(job.waitForCompletion(true) ? 0 : 1); |
|  | } |
|  | } |