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| |  | | --- | | import java.io.\*; | |  | import org.apache.hadoop.io.NullWritable; | |  | 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 distinctcities { | |  |  | |  | public static class MapClass extends Mapper<LongWritable,Text,Text,NullWritable> | |  | { | |  | public void map(LongWritable key, Text value, Context context) throws IOException, InterruptedException | |  | { | |  |  | |  | String record = value.toString(); | |  | String[] parts= record.split(","); | |  | String city= parts[3]; | |  | context.write(new Text(city), NullWritable.get()); | |  |  | |  | } | |  |  | |  | } | |  |  | |  | public static class ReduceClass extends Reducer<Text,NullWritable,Text,NullWritable> | |  | { | |  |  | |  | public void reduce(Text key, Iterable<NullWritable> values,Context context) throws IOException, InterruptedException { | |  |  | |  | context.write(key, NullWritable.get()); | |  |  | |  | } | |  | } | |  | public static void main(String[] args) throws Exception { | |  | Configuration conf = new Configuration(); | |  | //conf.set("name", "value") | |  | Job job = Job.getInstance(conf, "Distinct Cities"); | |  | job.setJarByClass(distinctcities.class); | |  | job.setMapperClass(MapClass.class); | |  | //job.setCombinerClass(ReduceClass.class); | |  | job.setReducerClass(ReduceClass.class); | |  | //job.setNumReduceTasks(2); | |  | job.setOutputKeyClass(Text.class); | |  | job.setOutputValueClass(NullWritable.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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