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|  | |
| import java.io.IOException; | |
|  | 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.Partitioner; |
|  | 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.\*; |
|  | import org.apache.hadoop.util.Tool; |
|  | import org.apache.hadoop.util.ToolRunner; |
|  |  |
|  |  |
|  | public class txnpartitition extends Configured implements Tool |
|  | { |
|  |  |
|  | public static class MapClass extends Mapper<LongWritable,Text,Text,Text> |
|  | { |
|  | public void map(LongWritable key, Text value, Context context) |
|  | { |
|  | try{ |
|  | String[] str = value.toString().split(","); |
|  | String field= str[4]; |
|  | // String val=str[0]+','+str[1]+','+str[2]+','+str[3]+','+str[5]+','+str[6]+','+str[7]+','+str[8]; |
|  | context.write(new Text(field),new Text(value)); |
|  |  |
|  | } |
|  | catch(Exception e) |
|  | { |
|  | System.out.println(e.getMessage()); |
|  | } |
|  | } |
|  | } |
|  |  |
|  | public static class ReduceClass extends Reducer<Text,Text,Text,Text> |
|  | { |
|  | public void reduce(Text key, Text value,Context context) throws IOException, InterruptedException { |
|  |  |
|  | context.write(new Text(key),new Text(value)); |
|  |  |
|  | } |
|  | } |
|  |  |
|  |  |
|  | public static class Coderpartitioner extends Partitioner <Text, Text> |
|  | { |
|  | public int getPartition(Text key, Text value, int numReducetasks) |
|  | { |
|  | String[] str= value.toString().split(","); |
|  |  |
|  | if(str[4].equalsIgnoreCase("Exercise & Fitness")) { |
|  | return 0; |
|  | } |
|  | else if(str[4].equalsIgnoreCase("Gymnastics")) { |
|  | return 1; |
|  | } |
|  | else if(str[4].equalsIgnoreCase("Team sports")) { |
|  | return 2; |
|  | } |
|  | else if(str[4].equalsIgnoreCase("outdoor Recreation")) { |
|  | return 3; |
|  | } |
|  | else if(str[4].equalsIgnoreCase("Puzzles")) { |
|  | return 4; |
|  | } |
|  | else if(str[4].equalsIgnoreCase("Outdoor Play Equipment")) { |
|  | return 5; |
|  | } |
|  | else if(str[4].equalsIgnoreCase("Winter Sports")) { |
|  | return 6; |
|  | } |
|  | else if(str[4].equalsIgnoreCase("Jumping")) { |
|  | return 7; |
|  | } |
|  | else if(str[4].equalsIgnoreCase("Indoor Games")) { |
|  | return 8; |
|  | } |
|  | else if(str[4].equalsIgnoreCase("Combat sports")) { |
|  | return 9; |
|  | } |
|  | else if(str[4].equalsIgnoreCase("water Sports")) { |
|  | return 10; |
|  | } |
|  | else if(str[4].equalsIgnoreCase("Air Sports")) { |
|  | return 11; |
|  | } |
|  | else if(str[4].equalsIgnoreCase("Racquet Sports")) { |
|  | return 12; |
|  | } |
|  | else if(str[4].equalsIgnoreCase("Dancing")) { |
|  | return 13; |
|  | } |
|  | else { |
|  | return 14; |
|  | } |
|  | } |
|  | } |
|  |  |
|  | public int run(String[] args) throws Exception { |
|  | Configuration conf = new Configuration(); |
|  | //conf.set(name", "value") |
|  | Job job = Job.getInstance(conf); |
|  | job.setJarByClass(txnpartitition.class); |
|  | job.setJobName(""); |
|  | FileInputFormat.setInputPaths(job, new Path(args[0])); |
|  | FileOutputFormat.setOutputPath(job, new Path(args[1])); |
|  |  |
|  | job.setMapperClass(MapClass.class); |
|  | job.setMapOutputKeyClass(Text.class); |
|  | job.setMapOutputValueClass(Text.class); |
|  |  |
|  | job.setPartitionerClass(Coderpartitioner.class); |
|  | job.setReducerClass(ReduceClass.class); |
|  | job.setNumReduceTasks(15); |
|  | job.setInputFormatClass(TextInputFormat.class); |
|  | job.setOutputFormatClass(TextOutputFormat.class); |
|  |  |
|  |  |
|  | job.setOutputKeyClass(Text.class); |
|  | job.setOutputValueClass(Text.class); |
|  |  |
|  | System.exit(job.waitForCompletion(true)? 0 : 1); |
|  | return 0; |
|  | } |
|  | public static void main(String ar[]) throws Exception |
|  | { |
|  | int res = ToolRunner.run(new Configuration(), new txnpartitition(),ar); |
|  | System.exit(0); |
|  | } |
|  | } |
|  |  |