# SalesMapper.java

package SalesCountry;

import java.io.IOException;

import org.apache.hadoop.io.IntWritable; import org.apache.hadoop.io.LongWritable; import org.apache.hadoop.io.Text;

import org.apache.hadoop.mapred.\*;

public class SalesMapper extends MapReduceBase implements Mapper<LongWritable, Text, Text, IntWritable> {

private final static IntWritable one = new IntWritable(1);

public void map(LongWritable key, Text value, OutputCollector<Text, IntWritable> output, Reporter reporter) throws IOException {

String valueString = value.toString();

String[] SingleCountryData = valueString.split("-"); output.collect(new Text(SingleCountryData[0]), one);

}

}

# SalesCountryReducer.java

package SalesCountry;

import java.io.IOException; import java.util.\*;

import org.apache.hadoop.io.IntWritable; import org.apache.hadoop.io.Text; import org.apache.hadoop.mapred.\*;

public class SalesCountryReducer extends MapReduceBase implements Reducer<Text, IntWritable, Text, IntWritable> {

public void reduce(Text t\_key, Iterator<IntWritable> values, OutputCollector<Text,IntWritable> output, Reporter reporter) throws IOException {

Text key = t\_key;

int frequencyForCountry = 0; while (values.hasNext()) {

// replace type of value with the actual type of our value IntWritable value = (IntWritable) values.next(); frequencyForCountry += value.get();

}

output.collect(key, new IntWritable(frequencyForCountry));

}

}

# SalesCountryDriver.java

package SalesCountry;

import org.apache.hadoop.fs.Path; import org.apache.hadoop.io.\*; import org.apache.hadoop.mapred.\*;

public class SalesCountryDriver {

public static void main(String[] args) {

JobClient my\_client = new JobClient();

// Create a configuration object for the job

JobConf job\_conf = new JobConf(SalesCountryDriver.class);

// Set a name of the Job job\_conf.setJobName("SalePerCountry");

// Specify data type of output key and value job\_conf.setOutputKeyClass(Text.class); job\_conf.setOutputValueClass(IntWritable.class);

// Specify names of Mapper and Reducer Class job\_conf.setMapperClass(SalesCountry.SalesMapper.class); job\_conf.setReducerClass(SalesCountry.SalesCountryReducer.class);

// Specify formats of the data type of Input and output job\_conf.setInputFormat(TextInputFormat.class); job\_conf.setOutputFormat(TextOutputFormat.class);

// Set input and output directories using command line arguments,

//arg[0] = name of input directory on HDFS, and arg[1] = name of output directory to be created to store the output file.

FileInputFormat.setInputPaths(job\_conf, new Path(args[0])); FileOutputFormat.setOutputPath(job\_conf, new Path(args[1]));

my\_client.setConf(job\_conf); try {

// Run the job JobClient.runJob(job\_conf);

} catch (Exception e) {

e.printStackTrace();

}

}

}

# OUTPUT:

student@mll12:~$ hdfs dfs -put ~/input25 / student@mll12:~$ hadoop jar myjar.jar /input25 /output25 student@mll12:~$ hdfs dfs -cat /output25/part-00000

|  |  |  |
| --- | --- | --- |
| 10.1.1.236 | 7 |  |
| 10.1.181.142 | 14 |
| 10.1.232.31 | 5 |
| 10.10.55.142 | 14 |
| 10.102.101.66 | | 1 |
| 10.103.184.104 | | 1 |
| 10.103.190.81 | | 53 |
| 10.103.63.29 1 | |  |
| 10.104.73.51 1 | |  |
| 10.105.160.183 | | 1 |
| 10.108.91.151 | | 1 |
| 10.109.21.76 1 | |  |
| 10.11.131.40 1 | |  |
| 10.111.71.20 8 | |  |
| 10.112.227.184 | | 6 |
| 10.114.74.30 1 | |  |
| 10.115.118.78 1 | |  |
| 10.117.224.230 | | 1 |
| 10.117.76.22 12 | |  |
| 10.118.19.97 1 | |  |
| 10.118.250.30 7 | |  |
| 10.119.117.132 | | 23 |
| 10.119.33.245 1 | |  |
| 10.119.74.120 1 | |  |
| 10.12.113.198 2 | |  |
| 10.12.219.30 1 | |  |
| 10.120.165.113 | | 1 |
| 10.120.207.127 | | 4 |
| 10.123.124.47 | | 1 |
| 10.123.35.235 | | 1 |
| 10.124.148.99 | | 1 |
| 10.124.155.234 | | 1 |
| 10.126.161.13 | | 7 |
| 10.127.162.239 | | 1 |
| 10.128.11.75 10 | |  |
| 10.13.42.232 1 | |  |
| 10.130.195.163 | | 8 |
| 10.130.70.80 1 | |  |
| 10.131.163.73 | | 1 |
| 10.131.209.116 | | 5 |
| 10.132.19.125 | | 2 |
| 10.133.222.184 | | 12 |
| 10.134.110.196 | | 13 |
| 10.134.242.87 | | 1 |
| 10.136.84.60 5 | |  |

|  |  |  |
| --- | --- | --- |
| 10.14.2.86 | 8 | |
| 10.14.4.151 | 2 | |
| 10.140.139.116 | | 1 |
| 10.140.141.1 9 | |  |
| 10.140.67.116 1 | |  |
| 10.141.221.57 | | 5 |
| 10.142.203.173 | | 7 |
| 10.143.126.177 | | 32 |
| 10.144.147.8 1 | |  |
| 10.15.208.56 1 | |  |
| 10.15.23.44 13 | |  |
| 10.150.212.239 | | 14 |
| 10.150.227.16 | | 1 |
| 10.150.24.40 13 | |  |
| 10.152.195.138 | | 8 |
| 10.153.23.63 2 | |  |
| 10.153.239.5 25 | |  |
| 10.155.95.124 | | 9 |
| 10.156.152.9 1 | |  |
| 10.157.176.158 | | 1 |
| 10.164.130.155 | | 1 |
| 10.164.49.105 | | 8 |
| 10.164.95.122 | | 10 |
| 10.165.106.173 | | 14 |
| 10.167.1.145 19 | |  |
| 10.169.158.88 | | 1 |
| 10.170.178.53 | | 1 |
| 10.171.104.4 1 | |  |
| 10.172.169.53 | | 18 |
| 10.174.246.84 | | 3 |
| 10.175.149.65 | | 1 |
| 10.175.204.125 | | 15 |
| 10.177.216.164 | | 6 |
| 10.179.107.170 | | 2 |
| 10.181.38.207 | | 13 |
| 10.181.87.221 | | 1 |
| 10.185.152.140 | | 1 |
| 10.186.56.126 | | 16 |
| 10.186.56.183 | | 1 |
| 10.187.129.140 | | 6 |
| 10.187.177.220 | | 1 |
| 10.187.212.83 | | 1 |
| 10.187.28.68 1 | |  |
| 10.19.226.186 | | 2 |
| 10.190.174.142 | | 10 |