## Java Code to process logfile

## **Mapper Class:**

```
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,</pre>
IntWritable> output, Reporter reporter) throws IOException {
            String valueString = value.toString();
            String[] SingleCountryData = valueString.split("-");
            output.collect(new Text(SingleCountryData[0]), one);
      }
}
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));
      }
Driver Class:
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 <math>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]));
```

## **Input File**

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