Assignment No 12

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# 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] = \text{name of input directory on HDFS}, and \arg[1] = \text{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);
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} catch (Exception e) {
                    e.printStackTrace();
             }
      }}
# 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));
       }
}
  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.*;
```

String[] SingleCountryData = valueString.split(",");
output.collect(new Text(SingleCountryData[7]), one);

Output

}

}





