SalesJan2009.CSV

Transactio	Prod	Pri	Payment					Account_C	Last_L	Latitu	Longit
n_date	uct	ce	_Type	Name	City	State	Country	reated	ogin	de	ude
########	Prod uct1	12 00	Masterca rd	carolina	Basildon	England	United Kingdom	########	#####	51.5	1.116 67
#######	Prod uct1	12 00	Visa	Betina	Parkville	МО	United States	########	#####	39.19 5	94.68 19
#######	Prod uct1	12 00	Masterca rd	Federica e Andrea	Astoria	OR	United States	########	#####	46.18 806	123.8 3
########	Prod uct1	12 00	Visa	Gouya	Echuca	Victoria	Australia	9/25/05 21:13	#####	36.13 33	144.7 5
########	Prod uct2	36 00	Visa	Gerd W	Cahaba Heights	AL	United States	11/15/08 15:47	#####	33.52 056	86.80 25
#######	Prod uct1	12 00	Visa	LAUREN CE	Mickleton	NJ	United States	9/24/08 15:19	#####	39.79	75.23 81
#######	Prod uct1	12 00	Masterca rd	Fleur	Peoria	IL	United States	########	#####	40.69 361	89.58 89
#######	Prod uct1	12 00	Masterca rd	adam	Martin	TN	United States	########	#####	36.34 333	- 88.85 03
########	Prod uct1	12 00	Masterca rd	Renee Elisabet h	Tel Aviv	Tel Aviv	Israel	#######	#####	32.06 667	34.76 667
#######	Prod uct1	12 00	Visa	Aidan	Chatou	Ile-de- France	France	#######	#####	48.88 333	2.15
########	Prod uct1	12 00	Diners	Stacy	New York	NY	United States	#######	#####	40.71 417	74.00 64
########	Prod uct1	12 00	Amex	Heidi	Eindhoven	Noord- Brabant	Netherlan ds	########	#####	51.45	5.466 667
########	Prod uct1	12 00	Masterca rd	Sean	Shavano Park	тх	United States	########	#####	29.42 389	98.49 33
########	Prod	12 00	Visa			ID	United	#######	#####	43.69 556	- 116.3 53
*************	uct1 Prod	12	VISa	Georgia	Eagle	ID ID	States United	***************************************	#####	40.03	- 74.95
########	uct1 Prod	12	Visa	Richard	Riverside	NJ	States	########	###	53.67	78 - 6.319
#######	uct1 Prod	00	Diners	Leanne	Julianstown	Meath	Ireland	########	###	722	17
########	uct1 Prod	00 12	Visa	Janet	Ottawa	Ontario Andhra	Canada	########	###	17.38	-75.7 78.46
#######################################	uct1 Prod uct2	36 00	Diners Visa	barbara Sabine	Hyderabad London	Pradesh England	India United Kingdom	########	###	333 51.52 721	0.145 59
########	Prod uct1	12 00	Diners	Hani	Salt Lake City	UT	United States	12/30/08 5:44	#####	40.76 083	- 111.8 9
	Prod	12		Hulli	·		United		#####		2.216
########	uct1 Prod	00 12 00	Visa Diners	Jeremy Janis	Manchester Ballynora	England Cork	Kingdom Ireland	########	###	53.5 51.86 306	-8 58
#######################################	Prod uct1	12	Masterca rd	Nicola	Roodepoort	Gauteng	South Africa	#######################################	#####	26.16 67	-8.58 27.86 667

```
//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,</pre>
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[7]), one);
    }
}
//SalesCountryReducer
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 <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]));
        my_client.setConf(job_conf);
        try {
            // Run the job
            JobClient.runJob(job_conf);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
```

