

## Code :

### 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[7]), 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();
        }
    }
}

```

SalesJan2009.csv

1	Transaction_date	Product	Price	Payment_Type	Name	City	State	Country	Account_Created	Last_Login	Latitude
2	1/2/09 6:17	Product1	1200	Mastercard	carolina	Basildon	England	United Kingdom	1/2/09 6:00	1/2/09 6:08	51.5
3	1/2/09 4:53	Product1	1200	Visa	Betina	Parkville	MO	United States	1/2/09 4:42	1/2/09 7:49	39.195
4	1/2/09 13:08	Product1	1200	Mastercard	Federica e Andrea	Astoria	OR	United States	1/1/09 16:21	1/3/09 12:32	46.18806
5	1/3/09 14:44	Product1	1200	Visa	Gouya	Echuca	Victoria	Australia	9/25/05 21:13	1/3/09 14:22	-36.1333333
6	1/4/09 12:56	Product2	3600	Visa	Gerd W	Cahaba Heights	AL	United States	11/15/08 15:47	1/4/09 12:45	33.52056
7	1/4/09 13:19	Product1	1200	Visa	LAURENCE	Mickleton	NJ	United States	9/24/08 15:19	1/4/09 13:04	39.79
8	1/4/09 20:11	Product1	1200	Mastercard	Fleur	Peoria	IL	United States	1/3/09 9:38	1/4/09 19:45	40.69361

**Output :**

**part-00000**

Argentina

1

Australia 38  
 Austria 7  
 Bahrain 1  
 Belgium 8  
 Bermuda 1  
 Brazil 5  
 Bulgaria 1  
 CO 1  
 Canada 76  
 Cayman Isls 1  
 China 1  
 Costa Rica 1  
 Country 1  
 Czech Republic 3  
 Denmark 15  
 Dominican Republic 1  
 Finland 2  
 France 27  
 Germany 25  
 Greece 1  
 Guatemala 1  
 Hong Kong 1  
 Hungary 3  
 Iceland 1  
 India 2  
 Ireland 49

Israel	1
Italy	15
Japan	2
Jersey	1
Kuwait	1
Latvia	1
Luxembourg	1
Malaysia	1
Malta	2
Mauritius	1
Moldova	1
Monaco	2
Netherlands	22
New Zealand	6
Norway	16
Philippines	2
Poland	2
Romania	1
Russia	1
South Africa	5
South Korea	1
Spain	12
Sweden	13
Switzerland	36
Thailand	2
The Bahamas	2
Turkey	6
Ukraine	1
United Arab Emirates	6
United Kingdom	100
United States	462

## Browse Directory

/outputfiles

Show

25

entries

<input type="checkbox"/>	<div><div></div><div></div></div>	<div>Permission</div>	<div></div>	<div>Owner</div>	<div></div>	<div>Group</div>	<div></div>	<div>Size</div>	<div></div>	<div>Last Modified</div>	<div></div>	<div>Replicatio</div>
<input type="checkbox"/>		<div>-rw-r--r--</div>		<div>hduser</div>		<div>supergroup</div>		<div>0 B</div>		<div>Feb 17 23:34</div>		<div><u>1</u></div>
<input type="checkbox"/>		<div>-rw-r--r--</div>		<div>hduser</div>		<div>supergroup</div>		<div>661 B</div>		<div>Feb 17 23:34</div>		<div><u>1</u></div>

Showing 1 to 2 of 2 entries