

**File: 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);
    }
}
```

**File: 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));
}
}

```

**File: 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);

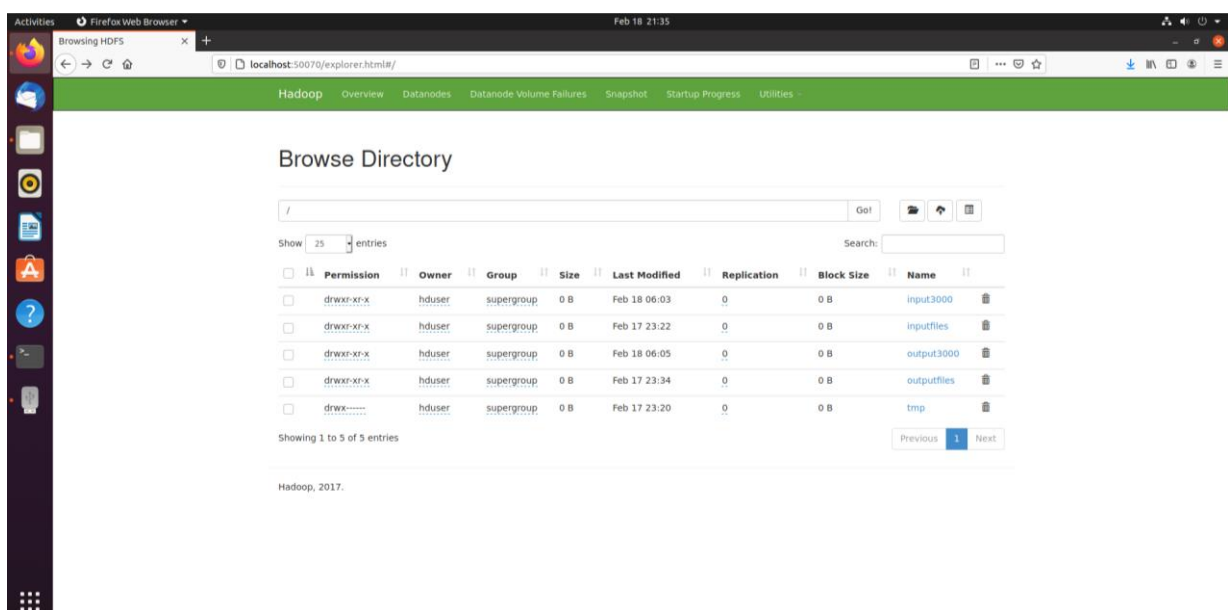
// Set input and output directories using command line arguments,
//arg[0] = name of input directory on HDFS, and arg[1] = name of output directory to be
//created to store the output file.

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:



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<input type="checkbox"/>	Permission	Owner	Group	Size	Last Modified	Replication	Block Size	Name
<input type="checkbox"/>	-rw-r--r--	hduser	supergroup	120.74 KB	Feb 17 23:22	1	128 MB	Salesjan2009.csv

Showing 1 to 1 of 1 entries Previous 1 Next

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Browsing HDFS localhost:50070/explorer.html#/outputfiles

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<input type="checkbox"/>	Permission	Owner	Group	Size	Last Modified	Replication	Block Size	Name
<input type="checkbox"/>	-rw-r--r--	hduser	supergroup	0 B	Feb 17 23:34	1	128 MB	_SUCCESS
<input type="checkbox"/>	-rw-r--r--	hduser	supergroup	661 B	Feb 17 23:34	1	128 MB	part-00000

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