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4.
package ullaas;
import java.io.IOException;
import java.util.*;
import org.apache.hadoop.fs.Path;
import org.apache.hadoop.io.*;
import org.apache.hadoop.mapred.*;
public class transactioncount {
//MAPPER CODE
public static class Map extends MapReduceBase implements
Mapper<LongWritable, Text, Text, IntWritable> {
private final static IntWritable one = new IntWritable(1);
//private Text word = new Text();
public void map(LongWritable key, Text value, OutputCollector<Text,
IntWritable> output, Reporter reporter) throws IOException {
String myString = value.toString();
String[] userCount = myString.split(",");
output.collect(new Text(userCount[3]), one);
}
//REDUCER CODE
public static class Reduce extends MapReduceBase implements
Reducer<Text, IntWritable, Text, IntWritable> {
public void reduce(Text key, Iterator<IntWritable> values,
OutputCollector<Text, IntWritable> output, Reporter reporter) throws
IOException { //{little: {1,1}}
int finaluserCount = 0;
Text mykey = key;
while(values.hasNext()) {
IntWritable value = values.next();
finaluserCount += value.get();
}
output.collect(mykey, new IntWritable(finaluserCount));
//DRIVER CODE
public static void main(String[] args) throws Exception {
JobConf conf = new JobConf(transactioncount.class);
conf.setJobName("wordcount");
conf.setOutputKeyClass(Text.class);
conf.setOutputValueClass(IntWritable.class);
conf.setMapperClass(Map.class);
conf.setCombinerClass(Reduce.class);
conf.setReducerClass(Reduce.class);
conf.setInputFormat(TextInputFormat.class);
conf.setOutputFormat(TextOutputFormat.class); // hadoop jar
```

```
//jarname classpath inputfolder outputfolder
FileInputFormat.setInputPaths(conf, new Path(args[0]));
FileOutputFormat.setOutputPath(conf, new Path(args[1]));
JobClient.runJob(conf);
}
```

```
package ullaas;

import java.io.IOException;
import java.uxtll.*;
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import org.apache.hadoop.mapred.*;
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## creating a csv file

Α	В	С	D	
sl	card name	username	amount	
1	Q	Α	10000	
2	W	В	2000	
3	E	С	10000	
4	R	D	65000	

cd \$HADOOP\_HOME/sbin ./start-all.sh jps

```
hdoop admin1-HP-280-G4-MT-Business-PC ~/hadoop-3.2.1/sbin /start-all.sh
WARNING: Attempting to start all Apache Hadoop daemons as hdoop in 10 seconds.
WARNING: This is not a recommended production deployment configuration.
WARNING: Use CTRL-C to abort.
jps
Starting namenodes on [localhost]
Starting secondary namenodes [admin1-HP-280-G4-MT-Business-PC]
Starting resourcemanager
Starting nodemanagers

hdoop admin1-HP-280-G4-MT-Business-PC ~/hadoop-3.2.1/sbin jps
9250 DataNode
9526 SecondaryNameNode
8134 org. eclipse.equinox.launcher_1.5.600.v20191014-2022.jar
9895 NodeManager
9096 NameNode
10330 Jps
9724 ResourceManager

hdoop admin1-HP-280-G4-MT-Business-PC ~/hadoop-3.2.1/sbin hdfs dfs -mkdir -p /input
```

hdfs dfs -mkdir -p /input

hdfs dfs -copyFromLocal /home/hdoop/Desktop/ULLAAS.csv /input

hadoop jar /home/hdoop/Desktop/ullaas.jar /input /output

## hdfs dfs -cat /output/part\*

```
hdoop admin1-HP-280-G4-MT-Business-PC ~/hadoop-3.2.1/sbin hdfs dfs -cat /output/part*
2022-06-23 15:12:00,756 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false | false
```