# UNDERSTANDING HADOOP BY MAHESH MAHARANA

Saturday, January 7, 2017

HADOOP (PROOF OF CONCEPT) RETAIL DATA BY MAHESH CHANDRA MAHARANA

**INDUSTRY: RETAIL** 

Data Input Format: -.xls (My Input Data is in excel 2007-2003 Format)

Kindly check my blog to read any kind of Excel sheet and use the Excel Input format, record reader and excel parser given in that blog. Please find link to my blog below:

https://hadoop-poc-mahesh.blogspot.in/2017/01/hadoop-excel-input-format-to-read-

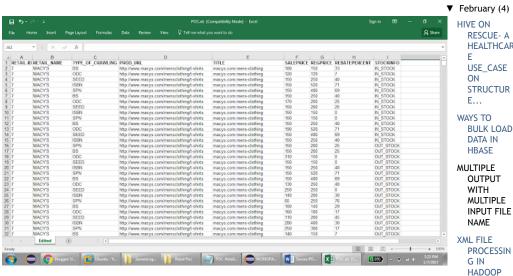
This POC Input file and Problem statement was shared to me by Mr. Sunil Pashikanti like this below was created 3000 records:-

### ATTRIBUTES are like:-

- 1. RETAIL\_ID
- 2. RETAIL\_NAME
- 3. TYPE\_OF\_CRAWLING
- 4. PRODUCT\_URL
- 5. TITTLE
- 6. SALE\_PRICE 7. REG\_PRICE
- 8. REBATE\_PERCENTAGE
- 9. STOCK\_INFO

### Example:

12 Amazon BS http://www.amazon.com/dell/lp Amazon.com:Dell Laptop 100.00 150.00 33 InStock



DOWNLOAD MY INPUT FILE FROM BELOW LINK:

Search This Blog Search About Me Mahesh Maharana View my complete profile **Blog Archive** ▼ 2017 (14) ▼ June (1) CRUNCH YOUR WAY IN HADOOP ▼ April (1) HIVE INTERVIEW RELATED PREPARATI ▼ March (1) A USECASE ON TRAVEL HEALTHCAR

https://drive.google.com/file/d/0BzYUKIo7aWL\_Sm5mT2l1cnZSQ0E/view?usp=sharing

### PROBLEM STATEMENT: -

- 1. take the complete Excel Input data on HDFS
- 2. Develop a Map Reduce Use Case to get the below filtered results from the HDFS Input data(Excel data)

```
IF Type_Of_Crawling is --> 'BS'
-salePrice < 100.00 & RebatePercent>50 --> store "HighBuzzProducts"
-RegPrice<150.00 & RebatePercent in 25-50 --> store "NormalProducts"
-lengthOf(title)>100 ---> 'rare products'

IF Type_Of_Crawling is --> 'ODC'
- salePrice < 150.00 --> store "OnDemandCrawlProducts"
- StockInfo --> "InStock" --> store "AvailableProducts"

ELSE
store in "OtherProducts"
```

NOTE: In the mentioned file names only 5 outputs have to be generated

- 3. Develop a PIG Script to filter the Map Reduce Output in the below fashion
  - Provide the Unique data
  - Sort the Unique data based on RETAIL\_ID in DESC order
- 4. EXPORT the same PIG Output from HDFS to MySQL using SQOOP
- 5. Store the same PIG Output in a HIVE External Table.

<u>NOTE</u>:- For this POC I have used custom input format to read EXCEL files using external jar. So the corresponding jar files to be added during coding and to the lib directory of hadoop for successful execution. You can use poi-xml jar for the reading .xlsx file (2010 onwards excel format).

Below is the steps to make it work...

### 1. Download and Install ant from below link.

http://muug.ca/mirror/apache-dist//ant/binaries/apache-ant-1.9.8-bin.tar.gz

### 2. To install give following command in terminal:

tar -xzvf <apache ant Path>

3. Update bashrc:-

nano ~/.bashrc

Add below two lines:-

export ANT\_HOME=\${ant\_dir}

export PATH=\${ANT\_HOME}/bin

Now Source bashrc by command:

source ~/.bashrc

- 4. Then restart the system. (Very Important for the effect to take place)
- 5. Download the required Jar files from below link:

 $\label{lem:https://github.com/sreejithpillai/ExcelRecordReaderMapReduce/blob/master/target/ExcelRecordReaderMapReduce-0.0.1-SNAPSHOT-jar-with-dependencies.jar$ 

https://github.com/sreejithpillai/ExcelRecordReaderMapReduce/blob/master/target/ExcelRecordReaderMapReduce-0.0.1-SNAPSHOT.jar

Place both jar files during Eclipse compilation and only SNAPSHOT. jar in hadoop lib directory.

```
▼ January (7)

HADOOP POC

ON EXCEL

DATA

WEATHER

REPORT
```

HADOOP (PROOF OF CONCEPTS) WEATHER REPORT ANALYSIS...

**ANALYSIS** 

HIVE 2.1.1 INSTALLATI ON IN HADOOP 2.7.3 IN UBUNTU ...

HADOOP EXCEL
INPUT
FORMAT TO
READ ANY
EXCEL
FILE...

HADOOP 2.7.3 SINGLE NODE CLUSTER SETUP IN UBUNTU 1

HADOOP (PROOF OF CONCEPT) RETAIL DATA BY MAHESH CH...

HADOOP 2.X MULTI-NOD E CLUSTER SETUP IN UBUNTU

### ▼ 2016 (3)

▼ December (2)

HADOOP (PROOF OF CONCEPT) SENSEXLOG EXCEL DATA BY ...

HADOOP (PROOF OF CONCEPT) HEALTHCAR E POC BY MAHESH...

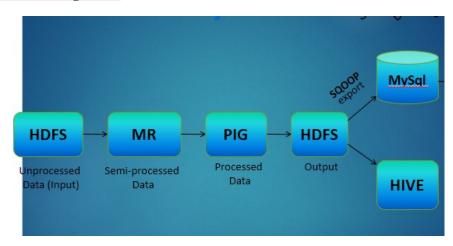
▼ February (1)

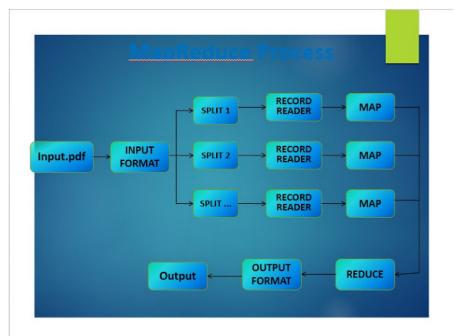
ADDING &
DELETING
A NODE IN
LIVE
CLUSTER HADOOP ...

6. If still not working try to add CLASSPATH:
export CLASSPATH=.:\$CLASSPATH:<Path to the jar file 1>:<Path to jar file 2>

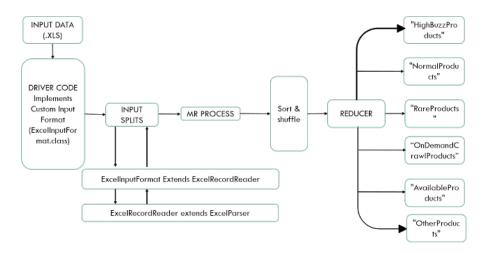
Hope it will work now.

### **POC Processing Details**



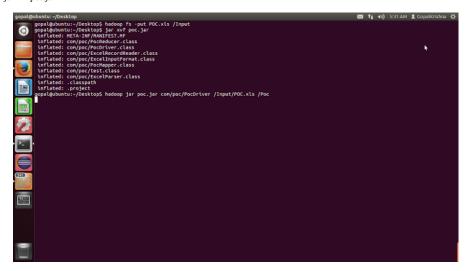


**MAP REDUCE PROCESS IN DETAILS:-**



### 1. TO TAKE XLS INPUT DATA ON HDFS

hadoop fs -mkdir /Input hadoop fs -put POC.xls /Input jar xvf poc.jar



### 2. MAP REDUCE CODES:-

# EXCEL INPUT DRIVER (DRIVER CLASS)

package com.poc;

import java.io.IOException; import org.apache.hadoop.conf.Configuration; import org.apache.hadoop.fs.Path; import org.apache.hadoop.io.IntWritable; import org.apache.hadoop.io.Text; import org.apache.hadoop.mapreduce.Job; import org.apache.hadoop.mapreduce.lib.input.FileInputFormat; import org.apache.hadoop.mapreduce.lib.output.FileOutputFormat; import org.apache.hadoop.mapreduce.lib.output.LazyOutputFormat;  $import\ org. a pache. hado op. mapreduce. lib. output. Multiple Outputs;$ import org.apache.hadoop.mapreduce.lib.output.TextOutputFormat; import org.apache.hadoop.util.GenericOptionsParser; public class PocDriver { static public int count = 0; public static void main(String[] args) throws IOException, InterruptedException, ClassNotFoundException {
 Configuration conf = new Configuration();

```
GenericOptionsParser parser = new GenericOptionsParser(conf, args);
     args = parser.getRemainingArgs();
     Job job = new Job(conf, "Retail_Poc");
     job.setJarByClass(PocDriver.class);
     job.setOutputKeyClass(Text.class);
     job.setOutputValueClass(Text.class);
     job. set Input Format Class (ExcelInput Format.class);\\
    job.setOutputFormatClass(TextOutputFormat.class);
LazyOutputFormat.setOutputFormatClass(job, TextOutputFormat.class);
     FileInputFormat.addInputPath(job, new Path(args[0]));
     FileOutputFormat.setOutputPath(job, new Path(args[1]));
     // job.setNumReduceTasks(0);
     job.setMapperClass(PocMapper.class);
     job.setReducerClass(PocReducer.class);
     MultipleOutputs.addNamedOutput(job, "HighBuzzProducts", TextOutputFormat.class,
IntWritable.class, Text.class);
     Multiple Outputs. add Named Output (job, "Normal Products", Text Output Format. class, and the product of the
IntWritable.class, Text.class);
    MultipleOutputs.addNamedOutput(job, "RareProducts", TextOutputFormat.class, IntWritable.class,
    Multiple Outputs. add Named Output (job, "On Demand Crawl Products", Text Output Format. class, the product of the product o
IntWritable.class,
          Text.class);
     Multiple Outputs. add Named Output (job, "Available Products", Text Output Format. class, and the product of 
IntWritable.class, Text.class);
    Multiple Outputs. add Named Output (job, "Other Products", Text Output Format. class, and the product of the 
IntWritable.class, Text.class);
     System.exit(job.waitForCompletion(true) ? 0 : 1);
EXCEL INPUT FORMAT
(CUSTOM INPUT FORMAT TO READ EXCEL FILES)
package com.poc;
import java.io.IOException;
import\ org. apache. hadoop. io. Long Writable;
import org.apache.hadoop.io.Text;
import org.apache.hadoop.mapreduce.InputSplit;
import\ org. apache. hadoop. mapreduce. Record Reader;
import org.apache.hadoop.mapreduce.TaskAttemptContext;
import org.apache.hadoop.mapreduce.lib.input.FileInputFormat;
public class ExcelInputFormat extends FileInputFormat<LongWritable, Text> {
                          public RecordReader<LongWritable, Text> createRecordReader(InputSplit split, TaskAttemptContext
context)
                                                                              throws IOException, InterruptedException {
                                                   return new ExcelRecordReader();
}
EXCEL RECORD READER
(TO READ EXCEL FILE AND SEND AS KEY, VALUE FORMAT)
package com.poc;
import java.io.IOException;
import java.io.InputStream;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.FSDataInputStream;
import org.apache.hadoop.fs.FileSystem;
import org.apache.hadoop.fs.Path;
import org.apache.hadoop.io.LongWritable;
import org.apache.hadoop.io.Text;
import org.apache.hadoop.mapreduce.InputSplit;
import org.apache.hadoop.mapreduce.RecordReader;
import org.apache.hadoop.mapreduce.TaskAttemptContext;
import\ org. apache. hado op. mapreduce. lib. input. File Split;
import com.sreejithpillai.excel.parser.ExcelParser;
public class ExcelRecordReader extends RecordReader<LongWritable, Text> {
```

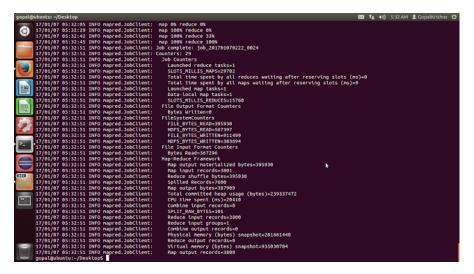
private LongWritable key;

```
private Text value;
      private InputStream is;
       private String[] strArrayofLines;
       @Override
      public void initialize(InputSplit genericSplit, TaskAttemptContext context)
                     throws IOException, InterruptedException {
              FileSplit split = (FileSplit) genericSplit;
              Configuration job = context.getConfiguration();
             final Path file = split.getPath();
FileSystem fs = file.getFileSystem(job);
              FSDataInputStream fileIn = fs.open(split.getPath());
              String line = new ExcelParser().parseExcelData(is);
              this.strArrayofLines = line.split("\n");
       (a)Override
       public boolean nextKeyValue() throws IOException, InterruptedException {
             if (key == null) {
                    key = new LongWritable(0);
                     value = new Text(strArrayofLines[0]);
              } else {
                     if (key.get() < (this.strArrayofLines.length - 1)) {
                            long pos = (int) key.get();
                            key.set(pos + 1);
                            value.set(this.strArrayofLines[(int) (pos + 1)]);
                           pos++;
                     } else {
                           return false;
              if (key == null || value == null) {
                    return false;
              } else {
                     return true;
       @Override
       public LongWritable getCurrentKey() throws IOException, InterruptedException {
             return key;
       @Override
       public Text getCurrentValue() throws IOException, InterruptedException {
             return value;
       @Override
       public float getProgress() throws IOException, InterruptedException {
       @Override
      public void close() throws IOException {
             if (is != null) {
                    is.close();
       }
}
EXCEL PARSER
(TO PARSE EXCEL SHEET)
package com.poc;
import java.io.IOException;
import java.io.InputStream;
import java.util.Iterator;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.poi.hssf.usermodel.HSSFSheet;
import org.apache.poi.hssf.usermodel.HSSFWorkbook;
import org.apache.poi.ss.usermodel.Cell;
import org.apache.poi.ss.usermodel.Row;
public class ExcelParser {
        private static final Log LOG = LogFactory.getLog(ExcelParser.class);
        private StringBuilder currentString = null;
        private long bytesRead = 0;
        public String parseExcelData(InputStream is) {
                try {
```

```
HSSFWorkbook workbook = new HSSFWorkbook(is);
                         HSSFSheet sheet = workbook.getSheetAt(0);
                         Iterator<Row> rowIterator = sheet.iterator();
                         currentString = new StringBuilder();
                         while (rowIterator.hasNext()) {
                                  Row row = rowIterator.next();
                                  Iterator<Cell> cellIterator = row.cellIterator();
                                  while (cellIterator.hasNext()) {
                                          Cell cell = cellIterator.next();
                                          switch (cell.getCellType()) {
                                          case Cell.CELL_TYPE_BOOLEAN:
                                                   bytesRead++;
currentString.append(cell.getBooleanCellValue() + "\t");
                                                   break;
                                  case Cell.CELL_TYPE_NUMERIC:
                                                   bytesRead++;
currentString.append(cell.getNumericCellValue() + "\t");
                                                   break:
                                          case Cell.CELL TYPE STRING:
                                                   bytesRead++;
                                                   current String.append (cell.get String Cell Value ()\\
+ "\t");
                                                   break:
                                  currentString.append("\n");
                         is.close();
                 } catch (IOException e) {
                         LOG.error("IO Exception: File not found " + e);
                return currentString.toString();
        public long getBytesRead() {
                return bytesRead;
EXCEL MAPPER
(HAVING MAPPER LOGIC)
package com.poc;
import java.io.IOException;
import org.apache.hadoop.io.LongWritable;
import org.apache.hadoop.io.Text;
import org.apache.hadoop.mapreduce.Mapper;
public class PocMapper extends Mapper<LongWritable, Text, Text, Text>
public void map(LongWritable key, Text value, Context context) throws IOException,
InterruptedException {
 try {
  if (value.toString().contains("RTL_NAME") && value.toString().contains("TYPE_OF_CRAWLING"))
  return;
  else {
  String[] str = value.toString().split(" ");
  String data = "";
for (int i = 0; i < str.length; i++) {
   if (str[i] != null || str[i] != " ") {
    data += (str[i] + " ");
  String dr1 = data.trim().replaceAll("\\s+", "\t");
  String[] str1 = dr1.split("\t");
  int id = (int) Double.parseDouble(str1[0]);
int regprice = (int) Double.parseDouble(str1[6]);
int rebate = (int) Double.parseDouble(str1[7]);
  int saleprice = (int) Double.parseDouble(str1[5]);
String dr = Integer.toString(id) + "\t" + str1[1] + "\t" + str1[2] + "\t" + str1[3] + "\t" + str1[4]+ "\t" +
Integer.toString(saleprice) + "\t" + Integer.toString(regprice) + "\t"+Integer.toString(rebate) + "\t" +
```

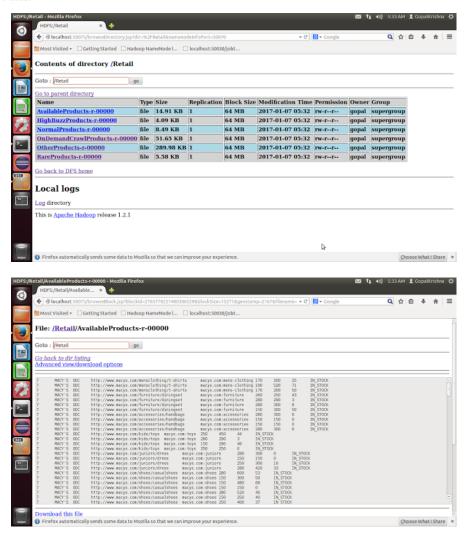
```
str1[8];
      context.write(new Text(""), new Text(dr));
   } catch (Exception e) {
    e.printStackTrace();
EXCEL REDUCER
(HAVING REDUCER LOGIC)
package com.poc;
import java.io.IOException;
import org.apache.hadoop.io.IntWritable;
import org.apache.hadoop.io.Text;
import org.apache.hadoop.mapreduce.Reducer;
import org.apache.hadoop.mapreduce.lib.output.MultipleOutputs;
public class PocReducer extends Reducer<Text, Text, IntWritable, Text> {
 MultipleOutputs<IntWritable, Text> mos;
 public void setup(Context context) {
  mos = new MultipleOutputs<IntWritable, Text>(context);
 @Override
 public void reduce(Text k1, Iterable<Text> k2, Context context) throws IOException,
InterruptedException {
   while (k2.iterator().hasNext()) {
    String sr = k2.iterator().next().toString();
    String sr1 = sr.trim().replaceAll("\\s+", "\t");
    String[] str1 = sr1.split("\t");
    int regprice = Integer.parseInt(str1[6]);
    int rebate = Integer.parseInt(str1[7]);
    int saleprice = Integer.parseInt(str1[5]);
    String dr = str1[0] + "\t" + str1[1] + "\t" + str1[2] + "\t" + str1[3] + "\t" + str1[4] + "\t" + str1[5] + "\t" + str1[6] + "\t" + str1[7] + "\t" + str1[8];
    if (str1[2].equalsIgnoreCase("BS")) {
     if (saleprice < 100 && rebate > 50) {
    mos.write("HighBuzzProducts", null, new Text(dr), "/Retail/HighBuzzProducts");
     } else if (regprice < 150 && rebate > 25 && rebate < 50) {
mos.write("NormalProducts", null, new Text(dr), "/Retail/NormalProducts");
     } else if (str1[4].length() > 100) {
      mos.write("RareProducts", null, new Text(dr), "/Retail/RareProducts");
       mos.write("OtherProducts", null, new Text(dr), "/Retail/OtherProducts");
    } else if (str1[2].equalsIgnoreCase("ODC")) {
     if (saleprice < 150) {
  mos.write("OnDemandCrawlProducts", null, new Text(dr), "/Retail/OnDemandCrawlProducts");
} else if (str1[8].equalsIgnoreCase("IN_STOCK")) {</pre>
      mos.write("AvailableProducts", null, new Text(dr), "/Retail/AvailableProducts");
     } else {
      mos.write("OtherProducts", null, new Text(dr), "/Retail/OtherProducts");
     mos.write("OtherProducts", null, new Text(dr), "/Retail/OtherProducts");
  @Override
 protected\ void\ cleanup (Context\ context)\ throws\ IOException,\ Interrupted Exception\ \{ \ an extension \ and \ an extension \ an extension \ and \ an extension \ an extension \ and \ an extension \ an extension \ and \ an extension \ an extension \ an extension \ and \ an extension \ an extension \ an extension \ and \ an extension \ and \ an extension \ an extens
  mos.close();
EXECUTING THE MAP REDUCE CODE
```

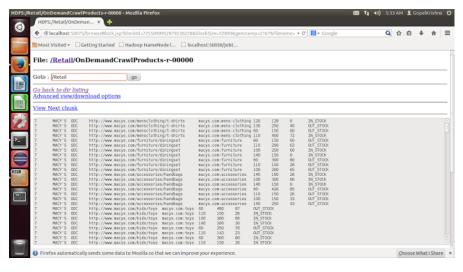
hadoop jar poc.jar com/poc/PocDriver /Input/POC.xls /Poc

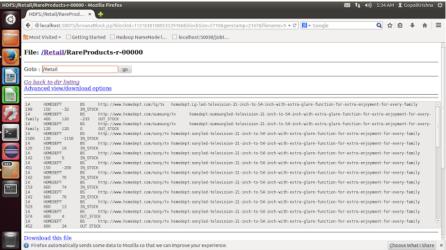


Goto Firefox and open name node page by following command:

 $http://localhost: 50070 \ and \ browse \ the \ file \ system \ , \ then \ click \ on \ Health Care POC \ directory \ to \ check \ the \ files \ created.$ 



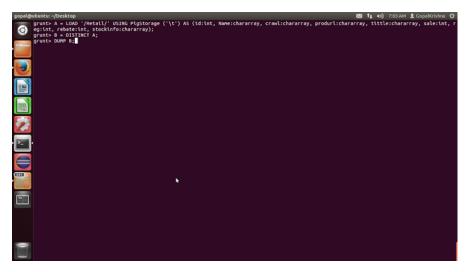


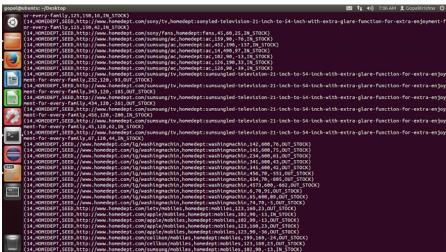


### 3. PIG SCRIPT

A = LOAD '/Retail/' USING PigStorage ('\t') AS (id:int, Name:chararray, crawl:chararray, produrl:chararray, tittle:chararray, sale:int, reg:int, rebate:int, stockinfo:chararray);

B = DISTINCT A; DUMP B;

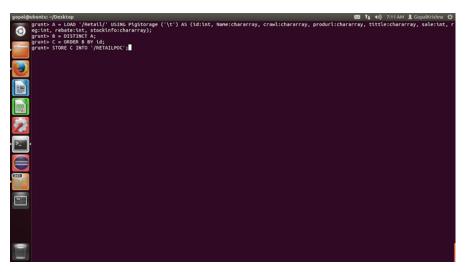




### PigScript2.pig

 $A = LOAD \ '\ 'Retail' \ USING \ PigStorage \ ('\ 't') \ AS \ (id:int, \ Name: chararray, \ crawl: chararray, \ produrl: chararray, \ tittle: chararray, \ sale: int, \ reg: int, \ rebate: int, \ stockinfo: chararray);$ 

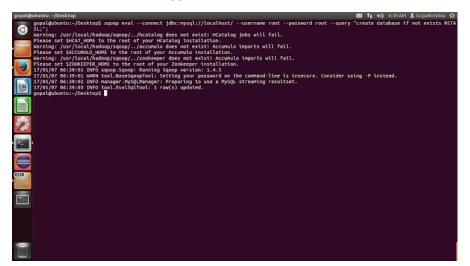
B = DISTINCT A; C = ORDER B BY id; STORE C INTO '/RETAILPOC';



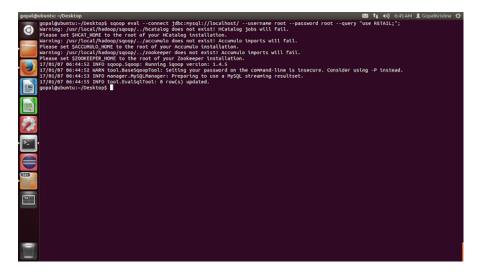


### 4. EXPORT the PIG Output from HDFS to MySQL using SQOOP

sqoop eval --connect jdbc:mysql://localhost/ --username root --password root --query "create database if not exists RETAIL;";

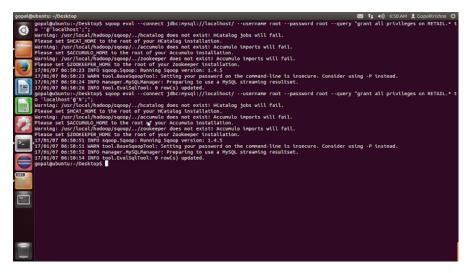


sqoop eval --connect jdbc:mysql://localhost/ --username root --password root --query "use RETAIL;";



sqoop eval --connect jdbc:mysql://localhost/ --username root --password root --query "grant all privileges on RETAIL.\* to 'localhost'@'%';";

 $sqoop\ eval\ --connect\ jdbc:mysql://localhost/\ --username\ root\ --password\ root\ --query\ "grant\ all\ privileges\ on\ RETAIL.*\ to\ ``@'localhost';";$ 



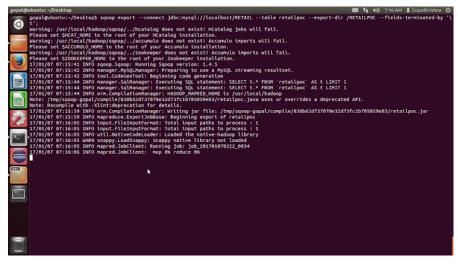
sqoop eval --connect jdbc:mysql://localhost/RETAIL --username root --password root --query "create table retailpoc(id int, name varchar(50), crawl varchar(50), produrl varchar(200), tittle varchar(200), sale int, reg int, rebate int, stockinfo varchar(50));";

```
gopal@wbuntu:-/Desktop

gopal@ubuntu:-/Desktop

gopal@
```

 $sqoop\ export\ --connect\ jdbc:mysql://localhost/RETAIL--table\ retailpoc\ --export-dir/RETAILPOC\ --fields-terminated-by\ 'tt';$ 



```
Spale_abuntur-/Desktop

Note: /tro/:acopo-gopal/compile/838b02d737870e32d73fc1b705059e83/retailpoc.java uses or overrides a deprecated API.

Note: /tro/:acopo-gopal/compile/838b02d737870e32d73fc1b705059e83/retailpoc.java uses or overrides a deprecated API.

Note: /scoropile with -Xiint:deprecation for details.

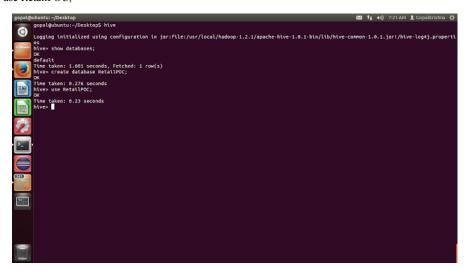
Note: /scoropile with -Xiint
```

### 5. STORE THE PIG OUTPUT IN A HIVE EXTERNAL TABLE

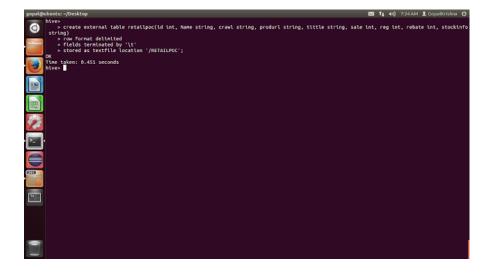
### goto hive shell using command:

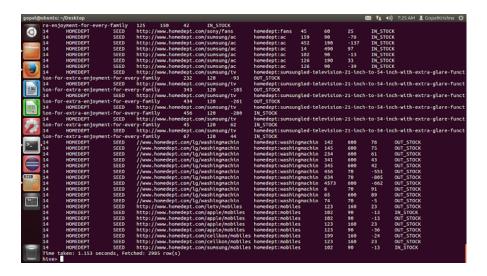
hive

show databases; create database RetailPOC; use RetailPOC;

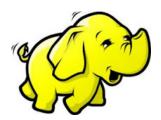


create external table retailpoc(id int, Name string, crawl string, produrl string, tittle string, sale int, reg int, rebate int, stockinfo string) row format delimited fields terminated by '\t' stored as textfile location '/RETAILPOC';





Hope you all understood the procedures...
Please do notify me for any corrections...
Kindly leave a comment for any queries/clarification...
(Detailed Description of each phase to be added soon).
ALL D BEST...



Posted by Mahesh Maharana at 7:28 AM

G

Labels: EXCEL DATA, Hadoop Excel Input Format, HADOOP POC, HIVE, PIG, Retail Data, SQOOP

19 comments		
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	Andrew Son 1 week ago - Shared publicly Hi admin, Your blog gives a useful information.Share more like this. https://www.fita.in/data-science-course-in-chennai/	
	gracy layla 2 weeks ago - Shared publicly Hi, It is good article to understand Mapreduce concept. Thank u very much. https://mindmajix.com/mapreduce-training	
	Daniel Charlie 10 months ago - Shared publicly nice blog. thanks for sharing Hadoop Tutorials. It's really good. Hadoop is an open source, Java-based programming framework that supports the processing and storage of extremely large data sets in a distributed computing environment  Keep sharing on Updated Tutorials????????	
	Naveen Reddy 10 months ago - Shared publicly great job brother.  1 Reply	
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