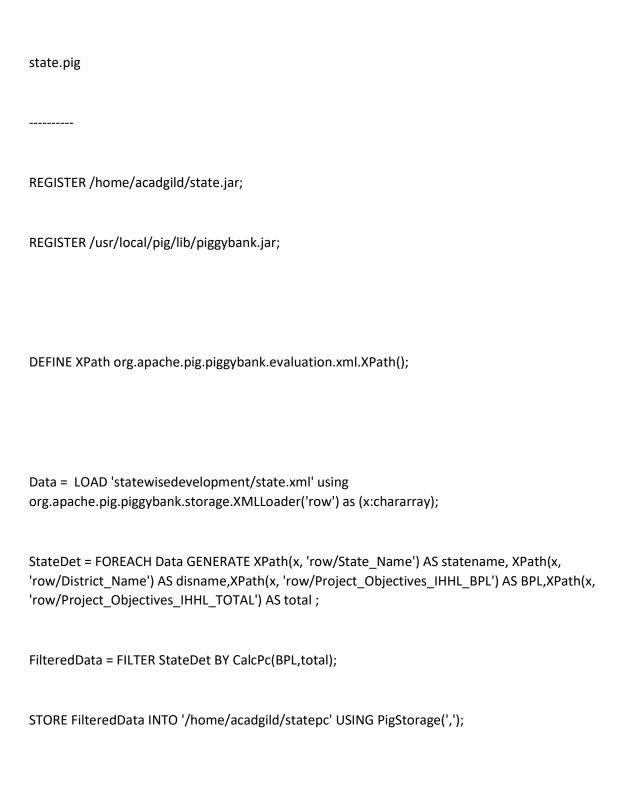
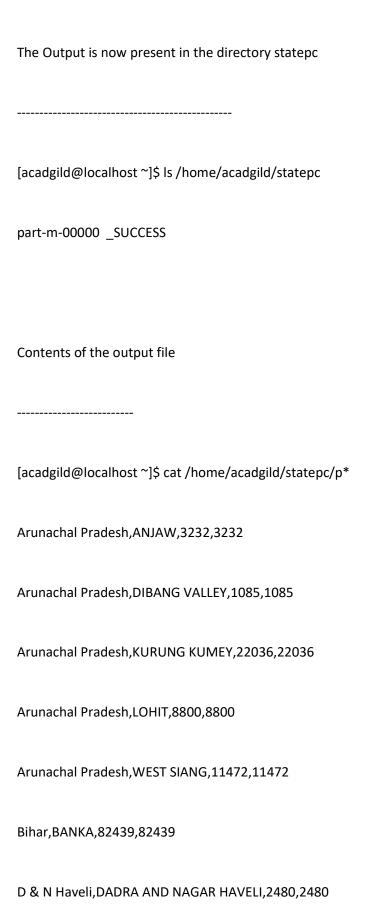
statement 2: Write a Pig UDF to filter the districts who have reached 80% of objectives of BPL cards.
Export the results to mysql using sqoop.
Create a Pig UDF Filter function to calculate districts that have met 80% or more of the BPL card Objectives.
Convert it into a Jar file to implement as a UDF filter in Pig Script
To create the Jar File, Open eclipse, Create a new java Project: CalcPC.java and add external jar Files from
1) /usr/local/pig
2) /usr/local/hadoop-2.6.0/share/hadoop/common/lib
3) /usr/local/hadoop-2.6.0/share/hadoop/common
4) /usr/local/pig/lib/hadoop1-runtime

```
CalcPC.java
import java.io.IOException;
import org.apache.pig.FilterFunc;
import org.apache.pig.data.Tuple;
public class CalcPc extends FilterFunc {
        public Boolean exec (Tuple input) throws IOException
        {
                try
                {
                        int value1 = Integer.parseInt((String) input.get(0));
                        int value2 = Integer.parseInt((String) input.get(1));
```

```
if (value1 == 0 || value2 == 0 )
        {
                System.out.println("zero values");
                System.exit(1);
        }
        return ((value1/value2)>=0.8);
}
catch (Exception e)
{
        System.out.println("something wrong"+e.getMessage());
}
return null;
```

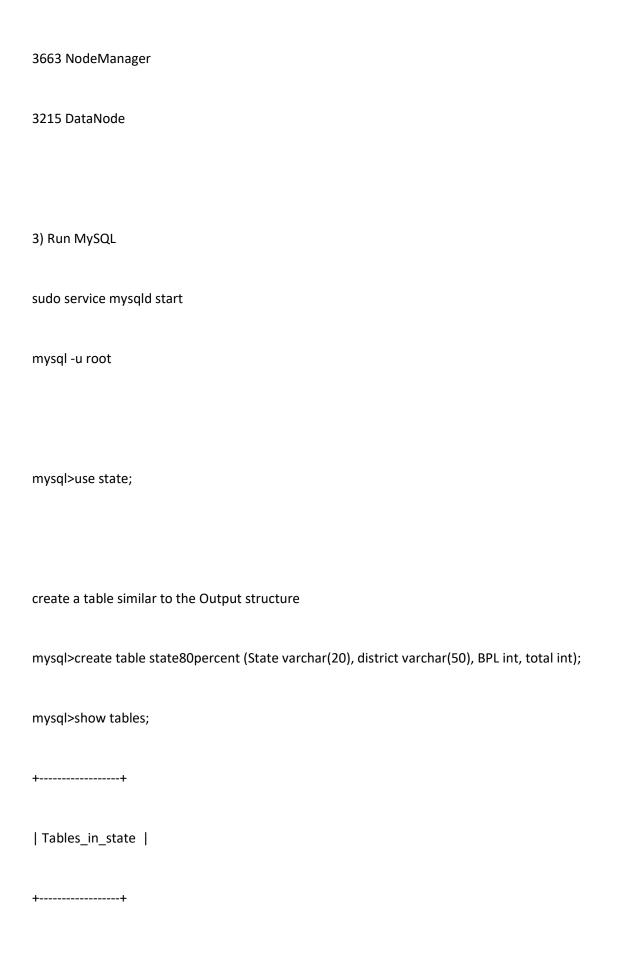
}





Goa,NORTH GOA,15000,15000	
Jammu & Kashmir,KARGIL,8475,8475	
Jammu & Kashmir,KISHTWAR,22318,22318	
Jammu & Kashmir,LEH (LADAKH),6090,6090	
Jammu & Kashmir,REASI ,	21500,21500
Jammu & Kashmir,SAMBA	,9849,9849
Jammu & Kashmir,SHOPIAN	,10196,10196
Copy the Directory to HDFS to prepare for Sq	oop export
[acadgild@localhost ~]\$ hadoop fs -put state	pc /user/acadgild
Make sure the copy is successful	

[acadgild@localhost ~]\$ hadoop fs -ls /user/acadgild 17/03/09 00:17:25 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable Found 7 items drwxr-xr-x - acadgild supergroup 0 2017-03-08 23:45 /user/acadgild/statepc [acadgild@localhost ~]\$ Open Terminal2, 1) start all Hadoop Daemons using start-all.sh 2) Make sure they are up using [acadgild@localhost ~]\$ jps 16884 Jps 3382 SecondaryNameNode 3560 ResourceManager 3118 NameNode



BPLObject	
state80pe	rcent
+	+
2 rows in se	t (0.00 sec)
In terminal1	., run the sqoop export command to transfer output from hdfs to MySQL
	rtconnect jdbc:mysql://localhost/stateusername 'root' -Ptable state80perce user/acadgild/statepc/part-m-00000'input-fields-terminated-by ',' -m 1
export-dir '/	
export-dir '/	user/acadgild/statepc/part-m-00000'input-fields-terminated-by ',' -m 1
export-dir '/	user/acadgild/statepc/part-m-00000'input-fields-terminated-by ',' -m 1
export-dir '/	user/acadgild/statepc/part-m-00000'input-fields-terminated-by ',' -m 1 c, check if the table has been populated with data ct * from state80percent;

```
| Arunachal Pradesh | ANJAW | 3232 | 3232 |
| Arunachal Pradesh | DIBANG VALLEY
                                       | 1085 | 1085 |
| Arunachal Pradesh | KURUNG KUMEY
                                       | 22036 | 22036 |
| Arunachal Pradesh | LOHIT | 8800 | 8800 |
| Arunachal Pradesh | WEST SIANG
                                     | 11472 | 11472 |
| Bihar
          | BANKA
                              | 82439 | 82439 |
D & N Haveli DADRA AND NAGAR HAVELI 2480 2480 2480
| Goa
          | NORTH GOA | 15000 | 15000 |
| Jammu & Kashmir | KARGIL
                                    | 8475 | 8475 |
| Jammu & Kashmir | KISHTWAR
                                     | 22318 | 22318 | | |
| Jammu & Kashmir | LEH (LADAKH) | 6090 | 6090 |
| Jammu & Kashmir | REASI | 21500 | 21500 |
| Jammu & Kashmir | SAMBA
                                     | 9849 | 9849 |
```

| 10196 | 10196 |

| Jammu & Kashmir | SHOPIAN

+------

14 rows in set (0.01 sec)