ASSIGNMENT-7.1

Create a sample dataset and implement the below Pig commands on the same dataset.

1) Concat:

jrunt> con1 = LOAD '/user/acadgild/set' using PigStorage(',') as (i1:chararray, i2:chararray, i3:chararray);

2017-05-15 13:53:39,201 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - mapreduce.job.counters.limit is deprecated. Instead, use mapreduce.job.counters.max

2017-05-15 13:53:39,205 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - io.bytes.per.checksum is deprecated. Instead, use dfs.bytes-per-checksum

2017-05-15 13:53:39,205 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated. Instead, use fs.defaultFS

grunt> dump con1;

2017-05-15 13:53:45,749 [main] INFO org.apache.pig.tools.pigstats.ScriptState - Pig features used in the script: UNKNOWN 2017-05-15 13:53:45,972 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated. Instead, use fs.defaultFS

2017-05-15 13:53:45,972 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - mapreduce.job.counters.limit is depre cated. Instead, use mapreduce.job.counters.max

2017-05-15 13:53:45,976 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - io.bytes.per.checksum is deprecated. Instead, use dfs.bytes-per-checksum

(John,Hannah,Baker) (Peter,Robert,Clive) (Scientist,Abdul,Kalam)



grunt> dump res;

2017-05-13 03:53:05,438 [main] INFO org.apache.pig.tools.pigstats.ScriptState - Pig features used in the script: UNKNOWN 2017-05-13 03:53:05,735 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated. Instea d. use fs.defaultFS

2017-05-13 03:53:05,735 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - mapreduce.job.counters.limit is depre cated. Instead, use mapreduce.job.counters.max

OUTPUT:

(HannahBaker) (RobertClive) (AbdulKalam)

2) Tokenize:

grunt> tok = LOAD '/user/acadgild/sample' using PigStorage('\n') AS (j1:chararray);

2017-05-15 14:13:46,106 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - mapreduce.job.counters.limit is deprecated. Instead, use mapreduce.job.counters.max

2017-05-15 14:13:46,110 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - io.bytes.per.checksum is deprecated. Instead, use dfs.bytes-per-checksum

2017-05-15 14:13:46,110 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated. Instea d. use fs.defaultFS

grunt> dump tok;

2017-05-15 14:13:58,168 [main] INFO org.apache.pig.tools.pigstats.ScriptState - Pig features used in the script: UNKNOWN 2017-05-15 14:13:58,452 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated. Instea d. use fs.defaultFS

```
(This is a sample document.)
(This is an example document.)
(This is a model document.)
(This document is for reference.)
```

grunt> res1 = FOREACH tok GENERATE TOKENIZE(j1);

grunt> dump res1;

2017-05-15 14:15:58,760 [main] INFO org.apache.pig.tools.pigstats.ScriptState - Pig features used in the script: UNKNOWN 2017-05-15 14:15:59,061 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated. Instea d, use fs.defaultFS

2017-05-15 14:15:59,061 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - mapreduce.job.counters.limit is depre cated. Instead, use mapreduce.job.counters.max

OUTPUT:

```
({(This),(is),(a),(sample),(document.)})
({(This),(is),(an),(example),(document.)})
({(This),(is),(a),(model),(document.)})
({(This),(document),(is),(for),(reference.)})
```

3) <u>Sum:</u>

grunt> ssum = LOAD '/user/acadgild/datas' using PigStorage(',') AS (name:chararray, num:int);

2017-05-15 14:36:52,450 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - mapreduce.job.counters.limit is depre cated. Instead, use mapreduce.job.counters.max

2017-05-15 14:36:52,451 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - io.bytes.per.checksum is deprecated. Instead, use dfs.bytes-per-checksum

2017-05-15 14:36:52,451 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated. Instea d, use fs.defaultFS

grunt> dump ssum;

2017-05-15 14:37:25,379 [main] INFO org.apache.pig.tools.pigstats.ScriptState - Pig features used in the script: UNKNOWN 2017-05-15 14:37:25,531 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated. Instead, use fs.defaultFS

2017-05-15 14:37:25,531 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - mapreduce.job.counters.limit is depre cated. Instead, use mapreduce.job.counters.max

2017-05-15 14:37:25,532 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - io.bytes.per.checksum is deprecated. Instead, use dfs.bytes-per-checksum

2017-05-15 14:37:25,533 [main] INFO org.apache.pig.data.SchemaTupleBackend - Key [pig.schematuple] was not set... will not generate code.

```
(aaa,4)
(bbb,5)
(ccc,3)
(aaa,2)
(aaa,1)
(ccc,3)
(bbb,1)
```

grunt> grp = GROUP ssum BY name;

grunt> dump grp;

2017-05-15 14:40:39,102 [main] INFO org.apache.pig.tools.pigstats.ScriptState - Pig features used in the script: GROUP_BY 2017-05-15 14:40:39,318 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated. Instead, use fs.defaultFS

2017-05-15 14:40:39,318 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - mapreduce.job.counters.limit is deprecated. Instead, use mapreduce.job.counters.max

2017-05-15 14:40:39,324 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - io.bytes.per.checksum is deprecated. Instead. use dfs.bytes-per-checksum

```
(aaa,{(aaa,1),(aaa,2),(aaa,4)})
(bbb,{(bbb,1),(bbb,5)})
(ccc,{(ccc,3),(ccc,3)})
```

grunt> res2 = FOREACH grp GENERATE group, SUM(ssum.num)

grunt> dump res2;

2017-05-15 14:45:16,446 [main] INFO org.apache.pig.tools.pigstats.ScriptState - Pig features used in the script: GROUP BY 2017-05-15 14:45:16,688 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated. Instea 1, use fs.defaultFS

2017-05-15 14:45:16,688 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - mapreduce.job.counters.limit is depre cated. Instead, use mapreduce.job.counters.max

2017-05-15 14:45:16,692 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - io.bytes.per.checksum is deprecated. Instead, use dfs.bytes-per-checksum

2017-05-15 14:45:16,698 [main] INFO org.apache.pig.data.SchemaTupleBackend - Key [pig.schematuple] was not set... will not g

OUTPUT:

```
(aaa,7)
(bbb,6)
(ccc,6)
```

4) Min:

grunt> dump grp;

2017-05-15 14:40:39,102 [main] INFO org.apache.pig.tools.pigstats.ScriptState - Pig features used in the script: GROUP BY 2017-05-15 14:40:39,318 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated. Instead, use fs.defaultFS

2017-05-15 14:40:39,318 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - mapreduce.job.counters.limit is deprecated. Instead, use mapreduce.job.counters.max

2017-05-15 14:40:39,324 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - io.bytes.per.checksum is deprecated. Instead, use dfs.bytes-per-checksum

```
(aaa,{(aaa,1),(aaa,2),(aaa,4)})
(bbb,{(bbb,1),(bbb,5)})
(ccc,{(ccc,3),(ccc,3)})
```

(444)0)

grunt> res3= FOREACH grp GENERATE group, MIN(ssum.num);

grunt> dump res3;

2017-05-15 14:50:18,766 [main] INFO org.apache.pig.tools.pigstats.ScriptState - Pig features used in the script: GROUP_BY 2017-05-15 14:50:18,944 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated. Instea d, use fs.defaultFS

2017-05-15 14:50:18,948 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - mapreduce.job.counters.limit is depre cated. Instead, use mapreduce.job.counters.max

OUTPUT:

```
(aaa,1)
(bbb,1)
(ccc,3)
```

5) <u>Max</u>

```
grunt> dump grp;
```

2017-05-15 14:40:39,102 [main] INFO org.apache.pig.tools.pigstats.ScriptState - Pig features used in the script: GROUP BY 2017-05-15 14:40:39,318 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated. Instead, use fs.defaultFS

2017-05-15 14:40:39,318 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - mapreduce.job.counters.limit is deprecated. Instead, use mapreduce.job.counters.max

2017-05-15 14:40:39,324 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - io.bytes.per.checksum is deprecated. Instead, use dfs.bytes-per-checksum

```
(aaa,{(aaa,1),(aaa,2),(aaa,4)})
(bbb,{(bbb,1),(bbb,5)})
(ccc,{(ccc,3),(ccc,3)})
```

grunt> res4= FOREACH grp GENERATE group, MAX(ssum.num);

grunt> dump res4;

2017-05-15 14:53:44,421 [main] INFO org.apache.pig.tools.pigstats.ScriptState - Pig features used in the script: GROUP BY 2017-05-15 14:53:44,571 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated. Instea d, use fs.defaultFS

2017-05-15 14:53:44,571 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - mapreduce.job.counters.limit is depre cated. Instead, use mapreduce.job.counters.max

2017-05-15 14:53:44,571 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - io.bytes.per.checksum is deprecated. Instead, use dfs.bytes-per-checksum

OUTPUT:

```
(aaa,4)
(bbb,5)
(ccc,3)
```

6) Limit:

grunt> dump ssum;

2017-05-15 14:37:25,379 [main] INFO org.apache.pig.tools.pigstats.ScriptState - Pig features used in the script: UNKNOWN 2017-05-15 14:37:25,531 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated. Instea d, use fs.defaultFS

2017-05-15 14:37:25,531 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - mapreduce.job.counters.limit is depre cated. Instead, use mapreduce.job.counters.max

2017-05-15 14:37:25,532 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - io.bytes.per.checksum is deprecated. Instead, use dfs.bytes-per-checksum

2017-05-15 14:37:25,533 [main] INFO org.apache.pig.data.SchemaTupleBackend - Key [pig.schematuple] was not set... will not g enerate code.

```
(aaa,4)
(bbb,5)
(ccc,3)
(aaa,2)
(aaa,1)
(ccc,3)
(bbb,1)
```

grunt> res5= LINIT ssun 3;

grunt> dump res5;

1 1

2017-05-15 14:58:50,628 [main] INFO org.apache.pig.tools.pigstats.ScriptState - Pig features used in the script: LIMIT 2017-05-15 14:58:50,868 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated. Instea d. use fs.defaultFS

2017-05-15 14:58:50,868 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - mapreduce.job.counters.limit is depre cated. Instead, use mapreduce.job.counters.max

2017-05-15 14:58:50,872 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - io.bytes.per.checksum is deprecated. Instead, use dfs.bytes-per-checksum

2017-05-15 14:58:50,876 [main] INFO org.apache.pig.data.SchemaTupleBackend - Key [pig.schematuple] was not set... will not g enerate code.

2017-05-15 14:58:50,887 [main] INFO org.apache.pig.newplan.logical.optimizer.LogicalPlanOptimizer - {RULES_ENABLED=[AddForEa ch, ColumnMapKeyPrune, ConstantCalculator, GroupByConstParallelSetter, LimitOptimizer, LoadTypeCastInserter, MergeFilter, MergeForEach, PartitionFilterOptimizer, PredicatePushdownOptimizer, PushDownForEachFlatten, PushUpFilter, SplitFilter, StreamTypeCastInserter]}

OUTPUT:

```
(aaa,4)
(bbb,5)
(ccc,3)
```

7) Store:

grunt> st = LOAD '/user/acadgild/edata' using PigStorage(',') AS (al:int,a2:int,a3:int);

2017-05-15 15:05:45,269 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - mapreduce.job.counters.limit is depre cated. Instead, use mapreduce.job.counters.max

2017-05-15 15:05:45,269 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - io.bytes.per.checksum is deprecated. Instead, use dfs.bytes-per-checksum

2017-05-15 15:05:45,270 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated. Instea d, use fs.defaultFS

grunt> dump st;

2017-05-15 15:01:12,501 [main] INFO org.apache.pig.tools.pigstats.ScriptState - Pig features used in the script: UNKNOWN 2017-05-15 15:01:12,910 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated. Inste d, use fs.defaultFS

2017-05-15 15:01:12,910 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - mapreduce.job.counters.limit is deprecated. Instead, use mapreduce.job.counters.max

2017-05-15 15:01:12,918 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - io.bytes.per.checksum is deprecated. Instead, use dfs.bytes-per-checksum

2017-05-15 15:01:12,957 [main] INFO org.apache.pig.data.SchemaTupleBackend - Key [pig.schematuple] was not set... will not enerate code.

```
(8,3,4)
(1,2,3)
(4,3,3)
(4,3,3)
(1,2,3)
```

grunt> STORE st INTO 'output' USING PigStorage ('*');

2017-05-15 15:13:29,005 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - mapreduce.job.counters.limit is depre cated. Instead, use mapreduce.job.counters.max

2017-05-15 15:13:29,008 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - io.bytes.per.checksum is deprecated. Instead, use dfs.bytes-per-checksum

2017-05-15 15:13:29,008 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated. Instea d, use fs.defaultFS

2017-05-15 15:13:29,337 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - mapred.textoutputformat.separator is deprecated. Instead, use mapreduce.output.textoutputformat.separator

OUTPUT

```
grunt> CAT output;
8*3*4
1*2*3
4*3*3
4*3*3
1*2*3
```

```
(8,3,4)
(1,2,3)
(4,3,3)
(4,3,3)
(1,2,3)
```

grunt> res6 = DISTINCT st;

2017-05-15 15:16:30,744 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated. Instea d, use fs.defaultFS

2017-05-15 15:16:30,744 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - mapreduce.job.counters.limit is depre cated. Instead, use mapreduce.job.counters.max

2017-05-15 15:16:30,745 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - io.bytes.per.checksum is deprecated. Instead, use dfs.bytes-per-checksum

grunt> dump res6;

2017-05-15 15:16:41,451 [main] INFO org.apache.pig.tools.pigstats.ScriptState - Pig features used in the script: DISTINCT 2017-05-15 15:16:41,629 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated. Instea d. use fs.defaultFS

and the first of t

OUTPUT

```
tess : 1
(1,2,3)
(4,3,3)
(8,3,4)
```

9) Flatten:

grunt> a1 = load '/user/acadgild/test' using PigStorage(',') as (a:int, b:int);

2017-05-15 15:25:29,749 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - mapreduce.job.counters.limit is depre cated. Instead, use mapreduce.job.counters.max

2017-05-15 15:25:29,749 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - io.bytes.per.checksum is deprecated. Instead, use dfs.bytes-per-checksum

2017-05-15 15:25:29,750 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated. Instea d, use fs.defaultFS

grunt> dump al;

2017-05-15 15:25:36,855 [main] INFO org.apache.pig.tools.pigstats.ScriptState - Pig features used in the script: UNKNOWN 2017-05-15 15:25:37,515 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated. Instea d. use fs.defaultFS

2017-05-15 15:25:37,515 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - mapreduce.job.counters.limit is depre cated. Instead, use mapreduce.job.counters.max

2017-05-15 15:25:37,516 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - io.bytes.per.checksum is deprecated. Instead, use dfs.bytes-per-checksum

2017-05-15 15:25:37,518 [main] INFO org.apache.pig.data.SchemaTupleBackend - Key [pig.schematuple] was not set... will not g enerate code.

```
(1,2)
(1,3)
(1,4)
(2,5)
(2,6)
(2,7)
```

. . .

```
grunt> a2 = group a1 by a;
grunt> a3 = foreach a2 generate group as a, a1 as b;
grunt> a4 = foreach a3 generate a, FLATTEN(BagToTuple(b.b));
```

grunt> dump a4;

2017-05-15 15:29:00,554 [main] INFO org.apache.pig.tools.pigstats.ScriptState - Pig features used in the script: GROUP BY 2017-05-15 15:29:00,679 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated. Instea d, use fs.defaultFS

2017-05-15 15:29:00,680 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - mapreduce.job.counters.limit is depre cated. Instead, use mapreduce.job.counters.max

2017-05-15 15:29:00,681 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - io.bytes.per.checksum is deprecated. Instead, use dfs.bytes-per-checksum

OUTPUT

10) IsEmpty:

grunt> emp_sales1 = LOAD '/user/acadgild/emp_sales' USING PigStorage(',') as (sno:int, name:chararray, age:int, salary:int, d
ept:chararray);

2017-05-15 15:32:23,386 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - mapreduce.job.counters.limit is depre cated. Instead, use mapreduce.job.counters.max

2017-05-15 15:32:23,387 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - io.bytes.per.checksum is deprecated. Instead, use dfs.bytes-per-checksum

2017-05-15 15:32:23,387 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated. Instea d. use fs.defaultFS

grunt> emp_bonus1 = LOAD '/user/acadgild/emp_bonus' USING PigStorage(',') as (sno:int, name:chararray, age:int, salary:int, d
ept:chararray);

2017-05-15 15:32:43,653 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - mapreduce.job.counters.limit is depre cated. Instead, use mapreduce.job.counters.max

2017-05-15 15:32:43,730 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - io.bytes.per.checksum is deprecated. Instead, use dfs.bytes-per-checksum

2017-05-15 15:32:43,730 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated. Instea d, use fs.defaultFS

grunt> dump emp sales1;

2017-05-15 15:33:00,836 [main] INFO org.apache.pig.tools.pigstats.ScriptState - Pig features used in the script: UNKNOWN 2017-05-15 15:33:00,950 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated. Instea d, use fs.defaultFS

2017-05-15 15:33:00,950 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - mapreduce.job.counters.limit is depre cated. Instead, use mapreduce.job.counters.max

2017-05-15 15:33:00,952 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - io.bytes.per.checksum is deprecated. Instead, use dfs.bytes-per-checksum

2017-05-15 15:33:00,954 [main] INFO org.apache.pig.data.SchemaTupleBackend - Key [pig.schematuple] was not set... will not g enerate code.

```
(1,Robin,22,25000,sales )
(2,B0B,23,30000,sales )
(3,Maya,23,25000,sales )
(4,Sara,25,40000,sales )
(5,David,23,45000,sales )
(6,Maggy,22,35000,sales)
```

grunt> dump emp_bonus1;

2017-05-15 15:35:33,469 [main] INFO org.apache.pig.tools.pigstats.ScriptState - Pig features used in the script: UNKNOWN 2017-05-15 15:35:33,590 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated. Instead, use fs.defaultFS

2017-05-15 15:35:33,590 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - mapreduce.job.counters.limit is depre cated. Instead, use mapreduce.job.counters.max

2017-05-15 15:35:33,591 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - io.bytes.per.checksum is deprecated. Instead, use dfs.bytes-per-checksum

2017-05-15 15:35:33,593 [main] INFO org.apache.pig.data.SchemaTupleBackend - Key [pig.schematuple] was not set... will not g enerate code.

```
(1,Robin,22,25000,sales )
(2,Jaya,23,20000,admin )
(3,Maya,23,25000,sales )
(4,Alia,25,50000,admin )
(5,David,23,45000,sales )
(6,0mar,30,30000,admin)
```

```
grunt> group_data = COGROUP emp_sales1 by age, emp_bonus1 by age;
grunt> res7= filter group_data by IsEmpty(emp_sales1);
grunt> dump res7;
```

2017-05-15 15:39:45,982 [main] INFO org.apache.pig.tools.pigstats.ScriptState - Pig features used in the script: COGROUP,FIL TER

2017-05-15 15:39:46,201 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated. Instea d. use fs.defaultFS

2017-05-15 15:39:46,202 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - mapreduce.job.counters.limit is depre cated. Instead, use mapreduce.job.counters.max

2017-05-15 15:39:46,223 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - io.bytes.per.checksum is deprecated. Instead, use dfs.bytes-per-checksum

OUTPUT

(30,{},{(6,0mar,30,30000,admin)})