

## BigData And Hadoop

### Assignment 2-A of Session 4

#### Problem Statement :

Given a dataset of sales of different TV sets across different locations, with records in the format :

Company Name|Product Name|Size in inches|State|Pin Code|Price

Eg : Samsung|Optima|14|Madhya Pradesh|132401|14200

There are some invalid records which contain 'NA' in either Company Name or Product Name.

Write a Map Reduce program to calculate the total units sold for each Company.

### Solution

#### Code files are as follows :

Mapper class : TelevisionSalesMapper.java

Reducer class : TelevisionSalesReducer.java

Driver class : TelevisionSales.java

#### Snapshots of the output are as follows :

- Executed Assi4.jar on television.txt

```
[acadgild@localhost ~]$ hadoop jar /home/acadgild/Assi4.jar /user/acadgild/television.txt /TVSales
18/11/18 22:54:37 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform..
asses where applicable
18/11/18 22:55:11 INFO client.RMPProxy: Connecting to ResourceManager at localhost/127.0.0.1:8032
18/11/18 22:55:34 WARN mapreduce.JobResourceUploader: Hadoop command-line option parsing not performed
terface and execute your application with ToolRunner to remedy this.
18/11/18 22:55:42 INFO input.FileInputFormat: Total input paths to process : 1
18/11/18 22:55:46 INFO mapreduce.JobSubmitter: number of splits:1
18/11/18 22:55:54 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1542561132187_0002
18/11/18 22:56:10 INFO impl.YarnClientImpl: Submitted application application_1542561132187_0002
18/11/18 22:56:15 INFO mapreduce.Job: The url to track the job: http://localhost:8088/proxy/application_1542561132187_0002
```

- Output:

```
acadgild@localhost:~  
File Edit View Search Terminal Help  
[acadgild@localhost ~]$ hadoop fs -ls /TVSales  
18/11/18 23:09:47 WARN util.NativeCodeLoader: Unable to load native-hadoop libra  
ry for your platform... using builtin-java classes where applicable  
Found 2 items  
-rw-r--r--   1 acadgild supergroup          0 2018-11-18 23:06 /TVSales/_SUCCESS  
-rw-r--r--   1 acadgild supergroup        38 2018-11-18 23:06 /TVSales/part-r-0  
0000  
[acadgild@localhost ~]$ hadoop fs -cat /TVSales/part-r-00000  
18/11/18 23:12:16 WARN util.NativeCodeLoader: Unable to load native-hadoop library  
for your platform... using builtin-java classes where applicable  
Akai      1  
Lava      3  
Onida     3  
Samsung   7  
Zen       2  
You have new mail in /var/spool/mail/acadgild  
[acadgild@localhost ~]$
```