

Task 1: Write a Map Reduce program to filter out the invalid records. Map only job will fit for this context.

Put jar file on VM:

```
NA|Lucid|18|Uttar Pradesh|232401|16200
[acadgild@localhost Desktop]$ ls -l
total 40
-rw-rw-r--. 1 acadgild acadgild 1287 Dec 29 15:15 bashrc.txt~
-rw-rw-r--. 1 acadgild acadgild 2822 May 15 13:10 MapreduceTVSales2.jar
-rw-rw-r--. 1 acadgild acadgild 2819 May 15 12:55 MapreduceTVSales.jar
-rw-rw-r--. 1 acadgild acadgild 4752 May 15 12:44 MyWordcount.jar
drwxrwxr-x. 2 acadgild acadgild 4096 Feb  2 12:45 README
-rw-rw-r--. 1 acadgild acadgild  733 May 15 12:59 television.txt
drwxrwxr-x. 2 acadgild acadgild 4096 May 15 12:43 TestHadoop
-rw-rw-r--. 1 acadgild acadgild   33 May 15 12:36 test.txt
-rw-rw-r--. 1 acadgild acadgild 2481 May 15 12:29 Wordcount.jar
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost Desktop]$
```

Move Input file to hdfs:

```
[acadgild@localhost Desktop]$ hadoop fs -put television.txt /television.txt
```

Run jar file:

```
[acadgild@localhost Desktop]$ hadoop jar MapreduceTVSales2.jar /television.txt /televisionopNew
```

Check and read the o/p files

```
NA|Lucid|18|Uttar Pradesh|232401|16200
[acadgild@localhost Desktop]$ hadoop fs -cat /televisionopNew/part-m-00000
```

Get the o/p

```
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost Desktop]$ hadoop fs -cat /televisionopNew/part-m-00000
18/05/15 13:12:09 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Onida|NA|16|Kerala|922401|12200
NA|Lucid|18|Uttar Pradesh|232401|16200
[acadgild@localhost Desktop]$
```

Task 2: Write a Map Reduce program to calculate the total units sold for each Company.

.....

Put jar file on VM:

```

[acadgild@localhost Desktop]$ ls -l
total 44
-rw-rw-r--. 1 acadgild acadgild 1287 Dec 29 15:15 bashrc.txt~
-rw-rw-r--. 1 acadgild acadgild 3921 May 15 13:35 MapreduceSoldByCompany.jar
-rw-rw-r--. 1 acadgild acadgild 2822 May 15 13:10 MapreduceTVSales2.jar
-rw-rw-r--. 1 acadgild acadgild 2819 May 15 12:55 MapreduceTVSales.jar
-rw-rw-r--. 1 acadgild acadgild 4752 May 15 12:44 MyWordcount.jar
drwxrwxr-x. 2 acadgild acadgild 4096 Feb  2 12:45 README
-rw-rw-r--. 1 acadgild acadgild  733 May 15 12:59 television.txt
drwxrwxr-x. 2 acadgild acadgild 4096 May 15 12:43 TestHadoop
-rw-rw-r--. 1 acadgild acadgild   33 May 15 12:36 test.txt
-rw-rw-r--. 1 acadgild acadgild 2481 May 15 12:29 Wordcount.jar
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost Desktop]$

```

Run jar file:

```

[acadgild@localhost Desktop]$ hadoop jar MapreduceSoldByCompany.jar /television.txt /televisionSoldByCompany

```

Check the o/p files and get o/p:

```

[acadgild@localhost Desktop]$ hadoop fs -ls /televisionSoldByCompany
18/05/15 13:38:02 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Found 2 items
-rw-r--r-- 1 acadgild supergroup          0 2018-05-15 13:37 /televisionSoldByCompany/_SUCCESS
-rw-r--r-- 1 acadgild supergroup       38 2018-05-15 13:37 /televisionSoldByCompany/part-r-00000
[acadgild@localhost Desktop]$
[acadgild@localhost Desktop]$ hadoop fs -cat /televisionSoldByCompany/part-r-00000
18/05/15 13:38:29 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 Desktop]$

```

Task 3: Write a Map Reduce program to calculate the total units sold in each state for Onida company.

Put jar file on VM:

```

[acadgild@localhost Desktop]$ ls -l
total 48
-rw-rw-r--. 1 acadgild acadgild 1287 Dec 29 15:15 bashrc.txt~
-rw-rw-r--. 1 acadgild acadgild 3921 May 15 13:35 MapreduceSoldByCompany.jar
-rw-rw-r--. 1 acadgild acadgild 3967 May 15 13:45 MapreduceStatewiseForOnida.jar
-rw-rw-r--. 1 acadgild acadgild 2822 May 15 13:10 MapreduceTVSales2.jar
-rw-rw-r--. 1 acadgild acadgild 2819 May 15 12:55 MapreduceTVSales.jar
-rw-rw-r--. 1 acadgild acadgild 4752 May 15 12:44 MyWordcount.jar
drwxrwxr-x. 2 acadgild acadgild 4096 Feb  2 12:45 README
-rw-rw-r--. 1 acadgild acadgild  733 May 15 12:59 television.txt
drwxrwxr-x. 2 acadgild acadgild 4096 May 15 12:43 TestHadoop
-rw-rw-r--. 1 acadgild acadgild   33 May 15 12:36 test.txt
-rw-rw-r--. 1 acadgild acadgild 2481 May 15 12:29 Wordcount.jar
You have new mail in /var/spool/mail/acadgild

```

Run jar file:

```
You have new mail in /var/spool/mail/acadgild  
[acadgild@localhost Desktop]$ hadoop jar MapreduceStatewiseforOnida.jar /television.txt /televisionState
```

Check and read the o/p files

```
[acadgild@localhost Desktop]$ hadoop fs -ls /televisionState  
18/05/15 13:48:19 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable  
Found 2 items  
-rw-r--r-- 1 acadgild supergroup 0 2018-05-15 13:46 /televisionState/_SUCCESS  
-rw-r--r-- 1 acadgild supergroup 25 2018-05-15 13:46 /televisionState/part-r-00000  
You have new mail in /var/spool/mail/acadgild
```

Get the o/p

```
[acadgild@localhost Desktop]$ hadoop fs -cat /televisionState/part-r-00000  
18/05/15 13:48:50 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable  
Kerala 1  
Uttar Pradesh 3  
[acadgild@localhost Desktop]$ █
```