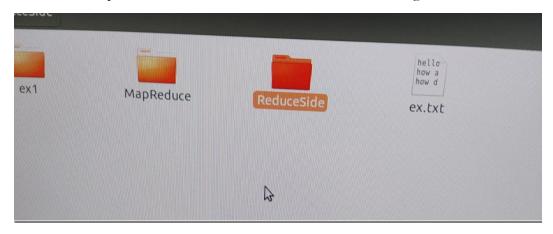
<u>Experiment – Reduce Side Join Program Execution Steps:</u>

- 1. Download the text and program files, and place in a separate folder in desktop.
- 2. In the desktop, create a folder, For ex: here the folder name is given as ReduceSide.



3. Inside this folder create an Input_data folder and place the input text files and rsp.java program file



4. Inside the ReduceSide folder create an empty folder name classfile.



5. Now, Start basic services,

```
ponny@ubuntu:~

ponny@ubuntu:~$ start-all.sh
Warning: $HADOOP_HOME is deprecated.

starting namenode, logging to /home/ponny/hadoop/libexec/../
localhost: starting datanode, logging to /home/ponny/hadoop/libexec/../
localhost: starting secondarynamenode, logging to /home/ponny
enode-ubuntu.out
starting jobtracker, logging to /home/ponny/hadoop/libexec/../
localhost: starting tasktracker, logging to /home/ponny/hadoop/
out
ponny@ubuntu:~$ java -version
java version "1.7.0_201"

OpenJDK Runtime Environment (IcedTea 2.6.17) (7u211-2.6.17-0ubun
OpenJDK Client VM (build 24.201-b00, mixed mode, sharing)
ponny@ubuntu:~$ jps
4352 Jps
3830 DataNode
4086 JobTracker
3998 SecondaryNameNode
3586 NameNode
4247 TaskTracker
ponny@ubuntu:~$ ■
```

4247 TaskTracker
ponny@ubuntu:~\$ export HADOOP_PATH=\$(hadoop classpath)
Warning: \$HADOOP_HOME is deprecated.

ponny@ubuntu:~\$ echo \$HADOOP_PATH
/home/ponny/hadoop/libexec/../conf:/usr/lib/jvm/java-7-openjdk-1386/lib/
.:/home/ponny/hadoop/libexec/../hadoop-core-1.0.4.jar:/home/ponny/hadoop/libexec/../lib/sapectjrt-1.6.5.jar:/home/ponny/hadoop/libexec/../lib/commons-beanutils-1.7.0.jar:/home/ponny/hadoop/libexec/../lib/commons-beanutils-1.7.0.jar:/home/ponny/hadoop/libexec/../lib/commons-collections-3.2.1.jar:
mmons-configuration-1.6.jar:/home/ponny/hadoop/libexec/../lib/commons-daen
xec/../lib/commons-tdgester-1.8.jar:/home/ponny/hadoop/libexec/../lib/commons-daen
xec/../lib/commons-tdgester-1.8.jar:/home/ponny/hadoop/libexec/../lib/commons-logging-api-1.0.4.jar:/home/ponny/hadoop/libexec/./lib/commons-logging-api-1.0.4.jar:/home/ponny/hadoop/libexec/../lib/commons-logging-api-1.0.4.jar:/home/ponny/hadoop/libexec/../lib/commons-logging-api-1.0.4.jar:/home/ponny/hadoop/libexec/../lib/abcomponny/hadoop/libexec/../lib/abcomponny/hadoop/libexec/../lib/abcomponny/hadoop/libexec/../lib/jackson-core-asi-1.8./../lib/jackson-core-asi-1.8./.././lib/jackson-napper-asi-1.8.8.jar:/home/ponny/hadoop/libexec/../lib/jackson-core-asi-1.8./../lib/jackson-napper-asi-1.8.8.jar:/home/ponny/hadoop/libexec/../lib/jackson-core-asi-1.8./../lib/jackson-napper-asi-1.8.8.jar:/home/ponny/hadoop/libexec/../lib/jackson-core-asi-1.8./../lib/jackson-napper-asi-1.8.8.jar:/home/ponny/hadoop/libexec/../lib/jersey-core-1.8.jar:/home/ponny/hadoop/libexec/../lib/jersey-core-1.8.jar:/home/ponny/hadoop/libexec/../lib/jersey-core-1.8.jar:/home/ponny/hadoop/libexec/../lib/jersey-core-1.8.jar:/home/ponny/hadoop/libexec/../lib/jersey-core-1.8.jar:/home/ponny/hadoop/libexec/../lib/jersey-core-1.8.jar:/home/ponny/hadoop/libexec/../lib/jersey-core-1.8.jar:/home/ponny/hadoop/libexec/../lib/jersey-core-1.8.jar:/home/ponny/hadoop/libexec/../lib/jersey-core-1.8.jar:/home/ponny/hadoop/libexec/../lib/jersey-core-1.8.jar:/home/ponny/hadoop/libexec/../lib/jersey-core

eneric options supported are conf <configuration file> specify an appli D property=value> use value for giv -fs <local|namenode:port> specify a namenod -jt <local|jobtracker:port> specify a job tra -files <comma separated list of files> specifi -libjars <comma separated list of jars> specif -archives <comma separated list of archives> te machines. The general command line syntax is bin/hadoop command [genericOptions] [commandOptions ponny@ubuntu:~\$ hadoop fs -mkdir /mapreduce/Input Warning: \$HADOOP_HOME is deprecated. ponny@ubuntu:~\$

ponny@ubuntu:~\$ hadoop fs -mkdir /reduceside/Input Warning: \$HADOOP_HOME is deprecated. ponny@ubuntu:~\$ ponny@ubuntu:~\$ hadoop fs -put '/home/ponny/Desktop/ReduceSide/Input_data/employees.csv' /reduceside/Input Warning: \$HADOOP_HOME is deprecated. ponny@ubuntu:-\$ hadoop fs -put '/home/ponny/Desktop/ReduceSide/Input_data/salaries.csv' /reduceside/Input Warning: \$HADOOP_HOME is deprecated. ponny@ubuntu:~\$ (no subject) - sudharson X HDFS:/ - C 6 ① localhost:50075/browseDirectory.jsp?namenodeInfoPort=50070 · · · Contents of directory / 3oto : V go Type Size Replication Block Size Modification Time Permission Owner Gr Name app 2025-02-24 10:17 rwxr-xr-x firstexercise dir ponny sup 2025-02-24 10:41 rwxr-xr-x mapreduce dir ponny sup 2025-03-10 12:01 rwxr-xr-x mapsidejoin dir ponny supe 2025-03-03 11:04 rwxr-xr-x reduceside dir ponny super 2025-03-10 12:02 rwxr-xr-x tmp ponny super 2024-04-08 16:09 rwxr-xr-x user dir ponny superc 2025-02-24 10:21 rwxr-xr-x Go back to DFS home ponny supera 🥯 🖨 🕦 HDFS:/reduceside/Input - Mozilla Firefox (no subject) - sudharson. X HDFS:/reduceside/Input ← C @ ① localhost:50075/browseDirectory.jsp?dire%2Freduceside%2Fin-Contents of directory /reduceside/Input Goto: Vreduceside/Input go Go to parent directory Type Size Replication Block Size Modification Time Permission Ow employees.csv file 0.04 KB 1 64 MB 2025-03-10 12:03 rw-r--r-salaries.csv file 0.04 KB 1 64 MB 2025-03-10 12:04 rw-r--rpon Go back to DFS home ponny@ubuntu:~\$ cd Desktop ponny@ubuntu:~/Desktop\$ cd ReduceSide ponny@ubuntu:~/Desktop/ReduceSide\$ y@ubuntu:-/Desktop/ReduceSide\$ javac -classpath \${HADOOP_PATH} -d '/home/ponny/Desktop/ReduceSide/classfile' '/home/ponny/Desktop/ReduceSide/classfile' '/home/ponny/Desktop/ReduceSide/classfile' '/home/ponny/Desktop/ReduceSide/rsp.java' doed manifest
dding: rsp.class(in = 1477) (out= 835)(deflated 43%)
dding: rsp\$JoinReducer.class(in = 2006) (out= 891)(deflated 55%)
adding: rsp\$JoinMapper.class(in = 1625) (out= 686)(deflated 57%)
ponny@ubuntu:-/Desktop/ReduceSide\$

ponny@ubuntu:~\$ hadoop fs -mkdir /reduceside

Warning: \$HADOOP_HOME is deprecated.

ponny@ubuntu:-/Desktop/ReduceSide\$ hadoop jar '/home/ponny/Desktop/ReduceSide/rsd.jar' rsp /reduceside/Input /reduceside/Output

25/03/10 12:23:07 MARN mapred.Jobclient: Use GenericOptionsParser for parsing the arguments. Applications should implement Tool for the same 25/03/10 12:23:08 INFO input.FileInputrornat: Total input paths to process: 2
25/03/10 12:23:08 INFO util.NativeCodeLoader: Loaded the native-hadoop library 25/03/10 12:23:08 INFO mapred.Jobclient: Running job: job_202503101157_0001

25/03/10 12:23:09 INFO mapred.Jobclient: Running job: job_202503101157_0001

