

→ create single node cluster
Refer hadoop 2.6.0 installation file

```
sdevsinx@bdt0:~/Desktop$ cd ~
```

```
# Update the source list
```

```
sdevsinx@bdt0:~$ sudo apt update
```

```
# The OpenJDK project is the default version of Java  
# that is provided from a supported Ubuntu repository.
```

```
sdevsinx@bdt0:~$ sudo apt install default-jdk
```

```
sdevsinx@bdt0:~$ sudo apt install openjdk-8-jdk
```

```
sdevsinx@bdt0:~$ java -version
```

```
sdevsinx@bdt0:~$ java -version  
openjdk version "11.0.19" 2023-04-18  
OpenJDK Runtime Environment (build 11.0.19+7-post-Ubuntu-0ubuntu122.04.1)  
OpenJDK 64-Bit Server VM (build 11.0.19+7-post-Ubuntu-0ubuntu122.04.1, mixed mode, sharing)  
sdevsinx@bdt0:~$
```

```
sdevsinx@bdt0:~$ sudo update-alternatives --config java
```

```
hduser@bdt0:~$ sudo update-alternatives --config java  
There are 2 choices for the alternative java (providing /usr/bin/java).  


| Selection | Path                                           | Priority | Status      |
|-----------|------------------------------------------------|----------|-------------|
| * 0       | /usr/lib/jvm/java-11-openjdk-amd64/bin/java    | 1111     | auto mode   |
| 1         | /usr/lib/jvm/java-11-openjdk-amd64/bin/java    | 1111     | manual mode |
| 2         | /usr/lib/jvm/java-8-openjdk-amd64/jre/bin/java | 1081     | manual mode |

  
Press <enter> to keep the current choice[*], or type selection number: 2  
update-alternatives: using /usr/lib/jvm/java-8-openjdk-amd64/jre/bin/java to provide /usr/bin/java (java) in manual mode  
hduser@bdt0:~$ sudo update-alternatives --config java  
There are 2 choices for the alternative java (providing /usr/bin/java).  


| Selection | Path                                           | Priority | Status      |
|-----------|------------------------------------------------|----------|-------------|
| 0         | /usr/lib/jvm/java-11-openjdk-amd64/bin/java    | 1111     | auto mode   |
| 1         | /usr/lib/jvm/java-11-openjdk-amd64/bin/java    | 1111     | manual mode |
| * 2       | /usr/lib/jvm/java-8-openjdk-amd64/jre/bin/java | 1081     | manual mode |

  
Press <enter> to keep the current choice[*], or type selection number:  
hduser@bdt0:~$
```

```
sdevsinx@bdt0:~$ sudo update-alternatives --config javac
```

```
sdevsinx@bdt0:~$ sudo update-alternatives --config javac
```

There are 2 choices for the alternative javac (providing /usr/bin/javac).

Selection	Path	Priority	Status
* 0	/usr/lib/jvm/java-11-openjdk-amd64/bin/javac	1111	auto mode
1	/usr/lib/jvm/java-11-openjdk-amd64/bin/javac	1111	manual mode
2	/usr/lib/jvm/java-8-openjdk-amd64/bin/javac	1081	manual mode

Press <enter> to keep the current choice[*], or type selection number: 2

update-alternatives: using /usr/lib/jvm/java-8-openjdk-amd64/bin/javac to provide /usr/bin/javac (javac) in manual mode

```
sdevsinx@bdt0:~$ sudo update-alternatives --config javac
```

There are 2 choices for the alternative javac (providing /usr/bin/javac).

Selection	Path	Priority	Status
0	/usr/lib/jvm/java-11-openjdk-amd64/bin/javac	1111	auto mode
1	/usr/lib/jvm/java-11-openjdk-amd64/bin/javac	1111	manual mode
* 2	/usr/lib/jvm/java-8-openjdk-amd64/bin/javac	1081	manual mode

Press <enter> to keep the current choice[*], or type selection number:

```
sdevsinx@bdt0:~$
```

```
sdevsinx@bdt0:~$ java -version
```

```
hduser@bdt0:~$ java -version
```

openjdk version "1.8.0_362"

OpenJDK Runtime Environment (build 1.8.0_362-8u372-ga~us1-0ubuntu1~22.04-b09)

OpenJDK 64-Bit Server VM (build 25.362-b09, mixed mode)

```
hduser@bdt0:~$
```

```
sdevsinx@bdt0:~$ sudo addgroup hadoop
```

```
sdevsinx@bdt0:~$ sudo addgroup hadoop
```

Adding group `hadoop' (GID 1001) ...

Done.

```
sdevsinx@bdt0:~$ sudo adduser --ingroup hadoop hduser
```

```
sdevsinx@bdt0:~$ sudo adduser --ingroup hadoop hduser
Adding user `hduser' ...
Adding new user `hduser' (1001) with group `hadoop' ...
Creating home directory `/home/hduser' ...
Copying files from `/etc/skel' ...
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: password updated successfully
Changing the user information for hduser
Enter the new value, or press ENTER for the default
    Full Name []:
    Room Number []:
    Work Phone []:
    Home Phone []:
    Other []:
Is the information correct? [Y/n] Y
```

```
sdevsinx@bdt0:~$ sudo apt install ssh
```

```
sdevsinx@bdt0:~$ which ssh
```

```
sdevsinx@bdt0:~$ which ssh
/usr/bin/ssh
sdevsinx@bdt0:~$
```

```
sdevsinx@bdt0:~$ which sshd
```

```
sdevsinx@bdt0:~$ which sshd
/usr/sbin/sshd
sdevsinx@bdt0:~$
```

```
sdevsinx@bdt0:~$ su hduser
```

```
sdevsinx@bdt0:~$ su hduser
Password:
hduser@bdt0:/home/sdevsinx$ cd
```

```
hduser@bdt0:/home/sdevsinx$ cd
```

```
hduser@bdt0:~$ ssh-keygen -t rsa -P ""
```

```
hduser@bdt0:~$ ssh-keygen -t rsa -P ""
Generating public/private rsa key pair.
Enter file in which to save the key (/home/hduser/.ssh/id_rsa):
Created directory '/home/hduser/.ssh'.
Your identification has been saved in /home/hduser/.ssh/id_rsa
Your public key has been saved in /home/hduser/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:Syc+3LTZKrVxvoRs9SxHPzFDhlZKga7kL7V+25Sgn50 hduser@bdt0
The key's randomart image is:
+---[RSA 3072]---+
|                 .o.. |
|                .. +  |
|               . + o   |
|              . .. o   |
|             S + ...+  |
|            + XoBo+..= |
|           =.X*= ++.   |
|          .+. =o+= o   |
|         .+.o=.E      |
|-----[SHA256]-----+
```

```
hduser@bdt0:~$ cat $HOME/.ssh/id_rsa.pub >> $HOME/.ssh/authorized_keys
```

```
hduser@bdt0:~$ ssh localhost
```

```
hduser@bdt0:~$ ssh localhost
The authenticity of host 'localhost (127.0.0.1)' can't be established.
ED25519 key fingerprint is SHA256:2jT3f3S4nTuql8EM+43hELWVJ+Jgqq1wQM/ioNa0D+4.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'localhost' (ED25519) to the list of known hosts.
Welcome to Ubuntu 22.04.2 LTS (GNU/Linux 5.19.0-42-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

hduser@bdt0:~$
```

```
hduser@bdt0:~$ wget
https://archive.apache.org/dist/hadoop/common/hadoop-2.6.0/hadoop-2.6.0.tar.gz
```

```
hduser@bdt0:~$ tar xvzf hadoop-2.6.0.tar.gz
```

```
hduser@bdt0:~$ mv hadoop-2.6.0 hadoop
```

```
hduser@bdt0:~$ mv hadoop /usr/local/
```

```
hduser@bdt0:~$ mv hadoop /usr/local/
mv: cannot move 'hadoop' to '/usr/local/hadoop': Permission denied
```

```
hduser@bdt0:~$ sudo hadoop /usr/local/
```

```
hduser@bdt0:~$ sudo hadoop /usr/local/
[sudo] password for hduser:
hduser is not in the sudoers file. This incident will be reported.
hduser@bdt0:~$
```

```
hduser@bdt0:~$ su sdevsinx
```

```
hduser@bdt0:~$ su sdevsinx
Password:
sdevsinx@bdt0:/home/hduser$
```

```
sdevsinx@bdt0:/home/hduser$ sudo adduser hduser sudo
```

```
sdevsinx@bdt0:/home/hduser$ sudo adduser hduser sudo
[sudo] password for sdevsinx:
Adding user 'hduser' to group 'sudo' ...
Adding user hduser to group sudo
Done.
sdevsinx@bdt0:/home/hduser$
```

```
sdevsinx@bdt0:/home/hduser$ sudo su hduser
```

```
hduser@bdt0:~$ sudo mv hadoop /usr/local/
```

```
hduser@bdt0:~$ sudo chown hduser:hadoop /usr/local/hadoop/
```

Configuring files

```
hduser@bdt0:~$ update-alternatives --config java
```

```
hduser@bdt0:~$ update-alternatives --config java
There is only one alternative in link group java (providing /usr/bin/java): /usr
/lib/jvm/java-11-openjdk-amd64/bin/java
Nothing to configure.
hduser@bdt0:~$
```

```
hduser@bdt0:~$ vim .bashrc
```

```
hduser@bdt0:~$ vim .bashrc
```

```
119 #HADOOP VARIABLES START
120 #export JAVA_HOME=/usr/lib/jvm/java-11-openjdk-amd64
120 export JAVA_HOME=/usr/lib/jvm/java-8-openjdk-amd64
121 export HADOOP_INSTALL=/usr/local/hadoop
122 export PATH=$PATH:$HADOOP_INSTALL/bin
123 export PATH=$PATH:$HADOOP_INSTALL/sbin
124 export HADOOP_MAPRED_HOME=$HADOOP_INSTALL
125 export HADOOP_COMMON_HOME=$HADOOP_INSTALL
126 export HADOOP_HDFS_HOME=$HADOOP_INSTALL
127 export YARN_HOME=$HADOOP_INSTALL
128 export HADOOP_COMMON_LIB_NATIVE_DIR=$HADOOP_INSTALL/lib/native
129 export HADOOP_OPTS="-Djava.library.path=$HADOOP_INSTALL/lib"
130 #HADOOP VARIABLES END
```

```

119 #HADOOP VARIABLES START
120 export JAVA_HOME=/usr/lib/jvm/java-11-openjdk-amd64
121 export HADOOP_INSTALL=/usr/local/hadoop
122 export PATH=$PATH:$HADOOP_INSTALL/bin
123 export PATH=$PATH:$HADOOP_INSTALL/sbin
124 export HADOOP_MAPRED_HOME=$HADOOP_INSTALL
125 export HADOOP_COMMON_HOME=$HADOOP_INSTALL
126 export HADOOP_HDFS_HOME=$HADOOP_INSTALL
127 export YARN_HOME=$HADOOP_INSTALL
128 export HADOOP_COMMON_LIB_NATIVE_DIR=$HADOOP_INSTALL/lib/native
129 export HADOOP_OPTS="-Djava.library.path=$HADOOP_INSTALL/lib"
130 #HADOOP VARIABLES END
~

```

130,1

Bot

```
hduser@bdt0:~$ source ~/.bashrc
```

```
hduser@bdt0:~$ javac --version
```

```

hduser@bdt0:~$ javac --version
javac 11.0.19
hduser@bdt0:~$

```

```
hduser@bdt0:~$ readlink -f /usr/bin/javac
```

```

hduser@bdt0:~$ readlink -f /usr/bin/javac
/usr/lib/jvm/java-11-openjdk-amd64/bin/javac
hduser@bdt0:~$

```

```

hduser@bdt0:~$ readlink -f /usr/bin/javac
/usr/lib/jvm/java-8-openjdk-amd64/bin/javac
hduser@bdt0:~$

```

```
hduser@bdt0:~$ nano /usr/local/hadoop/etc/hadoop/hadoop-env.sh
```

```

# A string representing this instance of hadoop. $USER by default.
export HADOOP_IDENT_STRING=$USER
export JAVA_HOME=/usr/lib/jvm/java-11-openjdk-amd64

```

```

^G Help      ^O Write Out ^W Where Is  ^K Cut       ^T Execute   ^C Location
^X Exit      ^R Read File ^\ Replace   ^U Paste     ^J Justify   ^_ Go To Line

```

```

# A string representing this instance of hadoop. $USER by default.
export HADOOP_IDENT_STRING=$USER
#export JAVA_HOME=/usr/lib/jvm/java-11-openjdk-amd64
export JAVA_HOME=/usr/lib/jvm/java-8-openjdk-amd64

```

```

^G Help      ^O Write Out ^W Where Is  ^K Cut       ^T Execute   ^C Location
^X Exit      ^R Read File ^\ Replace   ^U Paste     ^J Justify   ^_ Go To Line

```

```
hduser@bdt0:~$ sudo mkdir -p /app/hadoop/tmp
```

```
hduser@bdt0:~$ sudo chown hduser:hadoop /app/hadoop/tmp/
```

```
hduser@bdt0:~$ nano /usr/local/hadoop/etc/hadoop/core-site.xml
```

```
19 <configuration>
20     <property>
21         <name>hadoop.tmp.dir</name>
22         <value>/app/hadoop/tmp</value>
23         <description>A base for other temporary directories.</
description>
24     </property>
25     <property>
26         <name>fs.default.name</name>
27         <value>hdfs://localhost:54310</value>
28         <description>The name of the default file system. A URI
whose scheme and authority determine the FileSystem implementation. The uri's
scheme determines the config property (fs.SCHEME.impl) naming the FileSystem
implementation class. The uri's authority is used to determine the host, port,
etc. for a filesystem.</description>
29     </property>
30 </configuration>
```

```
<!-- Put site-specific property overrides in this file. -->

<configuration>
  <property>
    <name>hadoop.tmp.dir</name>
    <value>/app/hadoop/tmp</value>
    <description>A base for other temporary directories.</descripti>
  </property>
  <property>
    <name>fs.default.name</name>
    <value>hdfs://localhost:54310</value>
    <description>The name of the default file system. A URI whose s>
  </property>
</configuration>
```

```
^G Help      ^O Write Out ^W Where Is  ^K Cut       ^T Execute  ^C Location
^X Exit      ^R Read File ^\ Replace   ^U Paste     ^J Justify  ^/ Go To Line
```



```
hduser@bdt0:~$ nano /usr/local/hadoop/etc/hadoop/mapred-site.xml
```

```
19 <configuration>
20     <property>
21         <name>mapred.job.tracker</name>
22         <value>localhost:54311</value>
23         <description>The host and port that the MapReduce job
tracker runs at. If "local", then jobs are run in-process as a single map
and
reduce task.</description>
24     </property>
25 </configuration>
```

```
<!-- Put site-specific property overrides in this file. -->
```

```
<configuration>
  <property>
    <name>mapred.job.tracker</name>
    <value>localhost:54311</value>
    <description>The host and port that the MapReduce job tracker r>
  </property>
</configuration>
```

^G Help	^O Write Out	^W Where Is	^K Cut	^T Execute	^C Location
^X Exit	^R Read File	^\\ Replace	^U Paste	^J Justify	^/ Go To Line

```
hduser@bdt0:~$ sudo mkdir -p /usr/local/hadoop_store/hdfs/namenode
```

```
hduser@bdt0:~$ sudo mkdir -p /usr/local/hadoop_store/hdfs/datanode
```

```
hduser@bdt0:~$ sudo chown -R hduser:hadoop /usr/local/hadoop_store
```

```
hduser@bdt0:~$ nano /usr/local/hadoop/etc/hadoop/hdfs-site.xml
```

```
19 <configuration>
20     <property>
21         <name>dfs.replication</name>
22         <value>1</value>
23         <description>Default block replication. The actual number
of replications can be specified when the file is created. The default is      used
if replication is not specified in create time.</description>
24     </property>
25 <!--     <property>
26         <name>dfs.blocksize</name>
27         <value>27M</value>
28     </property>
29 -->
30     <property>
31         <name>dfs.namenode.name.dir</name>
32         <value>file:/usr/local/hadoop_store/hdfs/namenode</value>
33     </property>
34     <property>
35         <name>dfs.datanode.data.dir</name>
36         <value>file:/usr/local/hadoop_store/hdfs/datanode</value>
37     </property>
38 </configuration>
```

```

<configuration>
  <property>
    <name>dfs.replication</name>
    <value>1</value>
    <description>Default block replication. The actual number of re
  </property>
<!--
  <property>
    <name>dfs.blocksize</name>
    <value>27M</value>
  </property>
-->
  <property>
    <name>dfs.namenode.name.dir</name>
    <value>file:/usr/local/hadoop_store/hdfs/namenode</value>
  </property>
  <property>
    <name>dfs.datanode.data.dir</name>
    <value>file:/usr/local/hadoop_store/hdfs/datanode</value>
  </property>
</configuration>

```

^G Help ^O Write Out ^W Where Is ^K Cut ^T Execute ^C Location
 ^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^_ Go To Line

```
hduser@bdt0:~$ hadoop namenode -format
```

```

hduser@bdt0:~$ hadoop namenode -format
DEPRECATED: Use of this script to execute hdfs command is deprecated.
Instead use the hdfs command for it.

23/05/26 23:52:09 INFO namenode.NameNode: STARTUP_MSG:
/*****
STARTUP_MSG: Starting NameNode
STARTUP_MSG:  host = bdt0/127.0.1.1
STARTUP_MSG:  args = [-format]
STARTUP_MSG:  version = 2.6.0
STARTUP_MSG:  classpath = /usr/local/hadoop/etc/hadoop:/usr/local/hadoop/share/
hadoop/common/lib/jasper-compiler-5.5.23.jar:/usr/local/hadoop/share/hadoop/comm
on/lib/commons-digester-1.8.jar:/usr/local/hadoop/share/hadoop/common/lib/jsp-ap
i-2.1.jar:/usr/local/hadoop/share/hadoop/common/lib/stax-api-1.0-2.jar:/usr/loca
l/hadoop/share/hadoop/common/lib/commons-configuration-1.6.jar:/usr/local/hadoop
/share/hadoop/common/lib/jersey-core-1.9.jar:/usr/local/hadoop/share/hadoop/comm
on/lib/jasper-runtime-5.5.23.jar:/usr/local/hadoop/share/hadoop/common/lib/curat
or-recipes-2.6.0.jar:/usr/local/hadoop/share/hadoop/common/lib/jackson-core-asl-
1.9.13.jar:/usr/local/hadoop/share/hadoop/common/lib/snappy-java-1.0.4.1.jar:/us
r/local/hadoop/share/hadoop/common/lib/avro-1.7.4.jar:/usr/local/hadoop/share/ha

```

```

/mapper/hadoop-mapreduce-examples-2.6.0.jar:/usr/local/hadoop/share/hadoop/mapreduce/hadoop-mapreduce-client-app-2.6.0.jar:/contrib/capacity-scheduler/*.jar:/contrib/capacity-scheduler/*.jar
STARTUP_MSG:   build = https://git-wip-us.apache.org/repos/asf/hadoop.git -r e3496499ecb8d220fba99dc5ed4c99c8f9e33bb1; compiled by 'jenkins' on 2014-11-13T21:10Z
STARTUP_MSG:   java = 11.0.19
*****/
23/05/26 23:52:09 INFO namenode.NameNode: registered UNIX signal handlers for [TERM, HUP, INT]
23/05/26 23:52:09 INFO namenode.NameNode: createNameNode [-format]
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by org.apache.hadoop.security.authentication.util.KerberosUtil (file:/usr/local/hadoop/share/hadoop/common/lib/hadoop-auth-2.6.0.jar) to method sun.security.krb5.Config.getInstance()
WARNING: Please consider reporting this to the maintainers of org.apache.hadoop.security.authentication.util.KerberosUtil
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
23/05/26 23:52:10 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Formatting using clusterid: CID-53fae62b-4e8f-4dd6-bb2d-2b25c9cb0540
23/05/26 23:52:10 INFO namenode.FSNamesystem: No KeyProvider found.
23/05/26 23:52:10 INFO namenode.FSNamesystem: fsLock is fair:true
23/05/26 23:52:10 INFO blockmanagement.DatanodeManager: dfs.block.invalidate.limit=1000
23/05/26 23:52:10 INFO blockmanagement.DatanodeManager: dfs.namenode.datanode.registration.ip-hostname-check=true
23/05/26 23:52:10 INFO blockmanagement.BlockManager: dfs.namenode.startup.delay.block.deletion.sec is set to 000:00:00:00.000
23/05/26 23:52:10 INFO blockmanagement.BlockManager: The block deletion will start around 2023 May 26 23:52:10
23/05/26 23:52:10 INFO util.GSet: Computing capacity for map BlocksMap
23/05/26 23:52:10 INFO util.GSet: VM type           = 64-bit
23/05/26 23:52:10 INFO util.GSet: 2.0% max memory 1000 MB = 20 MB
23/05/26 23:52:10 INFO util.GSet: capacity          = 2^21 = 2097152 entries
23/05/26 23:52:10 INFO blockmanagement.BlockManager: dfs.block.access.token.enable=false
23/05/26 23:52:10 INFO blockmanagement.BlockManager: defaultReplication
= 1

```

```
23/05/26 23:52:10 INFO blockmanagement.BlockManager: maxReplication
= 512
23/05/26 23:52:10 INFO blockmanagement.BlockManager: minReplication
= 1
23/05/26 23:52:10 INFO blockmanagement.BlockManager: maxReplicationStreams
= 2
23/05/26 23:52:10 INFO blockmanagement.BlockManager: shouldCheckForEnoughRacks
= false
23/05/26 23:52:10 INFO blockmanagement.BlockManager: replicationRecheckInterval
= 3000
23/05/26 23:52:10 INFO blockmanagement.BlockManager: encryptDataTransfer
= false
23/05/26 23:52:10 INFO blockmanagement.BlockManager: maxNumBlocksToLog
= 1000
23/05/26 23:52:11 INFO namenode.FSNamesystem: fsOwner = hduser (auth
:SIMPLE)
23/05/26 23:52:11 INFO namenode.FSNamesystem: supergroup = supergroup
23/05/26 23:52:11 INFO namenode.FSNamesystem: isPermissionEnabled = true
23/05/26 23:52:11 INFO namenode.FSNamesystem: HA Enabled: false
23/05/26 23:52:11 INFO namenode.FSNamesystem: Append Enabled: true
23/05/26 23:52:11 INFO util.GSet: Computing capacity for map INodeMap
23/05/26 23:52:11 INFO util.GSet: VM type = 64-bit
23/05/26 23:52:11 INFO util.GSet: 1.0% max memory 1000 MB = 10 MB
23/05/26 23:52:11 INFO util.GSet: capacity = 2^20 = 1048576 entries
23/05/26 23:52:11 INFO namenode.NameNode: Caching file names occuring more than
10 times
23/05/26 23:52:11 INFO util.GSet: Computing capacity for map cachedBlocks
23/05/26 23:52:11 INFO util.GSet: VM type = 64-bit
23/05/26 23:52:11 INFO util.GSet: 0.25% max memory 1000 MB = 2.5 MB
23/05/26 23:52:11 INFO util.GSet: capacity = 2^18 = 262144 entries
23/05/26 23:52:11 INFO namenode.FSNamesystem: dfs.namenode.safemode.threshold-pc
t = 0.99900000128746033
23/05/26 23:52:11 INFO namenode.FSNamesystem: dfs.namenode.safemode.min.datanode
s = 0
23/05/26 23:52:11 INFO namenode.FSNamesystem: dfs.namenode.safemode.extension
= 30000
23/05/26 23:52:11 INFO namenode.FSNamesystem: Retry cache on namenode is enabled
23/05/26 23:52:11 INFO namenode.FSNamesystem: Retry cache will use 0.03 of total
heap and retry cache entry expiry time is 600000 millis
23/05/26 23:52:11 INFO util.GSet: Computing capacity for map NameNodeRetryCache
```

```
23/05/26 23:52:11 INFO util.GSet: VM type          = 64-bit
23/05/26 23:52:11 INFO util.GSet: 0.029999999329447746% max memory 1000 MB = 307
.2 KB
23/05/26 23:52:11 INFO util.GSet: capacity        = 2^15 = 32768 entries
23/05/26 23:52:11 INFO namenode.NNConf: ACLs enabled? false
23/05/26 23:52:11 INFO namenode.NNConf: XAttrs enabled? true
23/05/26 23:52:11 INFO namenode.NNConf: Maximum size of an xattr: 16384
Re-format filesystem in Storage Directory /usr/local/hadoop_store/hdfs/namenode
? (Y or N) Y
23/05/26 23:54:52 INFO namenode.FSImage: Allocated new BlockPoolId: BP-188099665
9-127.0.1.1-1685125492455
23/05/26 23:54:52 INFO common.Storage: Storage directory /usr/local/hadoop_store
/hdfs/namenode has been successfully formatted.
23/05/26 23:54:52 INFO namenode.NNStorageRetentionManager: Going to retain 1 ima
ges with txid >= 0
23/05/26 23:54:52 INFO util.ExitUtil: Exiting with status 0
23/05/26 23:54:52 INFO namenode.NameNode: SHUTDOWN_MSG:
/*****
SHUTDOWN_MSG: Shutting down NameNode at bdt0/127.0.1.1
*****/
hduser@bdt0:~$
```



```
hduser@bdt0:~$ start-all.sh
```

```
hduser@bdt0:~$ start-all.sh
```

This script is Deprecated. Instead use start-dfs.sh and start-yarn.sh

WARNING: An illegal reflective access operation has occurred

WARNING: Illegal reflective access by org.apache.hadoop.security.authentication.util.KerberosUtil (file:/usr/local/hadoop/share/hadoop/common/lib/hadoop-auth-2.6.0.jar) to method sun.security.krb5.Config.getInstance()

WARNING: Please consider reporting this to the maintainers of org.apache.hadoop.security.authentication.util.KerberosUtil

WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations

WARNING: All illegal access operations will be denied in a future release

23/05/26 23:57:11 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

Starting namenodes on [localhost]

localhost: starting namenode, logging to /usr/local/hadoop/logs/hadoop-hduser-namenode-bdt0.out

localhost: starting datanode, logging to /usr/local/hadoop/logs/hadoop-hduser-datanode-bdt0.out

Starting secondary namenodes [0.0.0.0]

0.0.0.0: starting secondarynamenode, logging to /usr/local/hadoop/logs/hadoop-hduser-secondarynamenode-bdt0.out

WARNING: An illegal reflective access operation has occurred

WARNING: Illegal reflective access by org.apache.hadoop.security.authentication.util.KerberosUtil (file:/usr/local/hadoop/share/hadoop/common/lib/hadoop-auth-2.6.0.jar) to method sun.security.krb5.Config.getInstance()

WARNING: Please consider reporting this to the maintainers of org.apache.hadoop.security.authentication.util.KerberosUtil

WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations

WARNING: All illegal access operations will be denied in a future release

23/05/26 23:57:34 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

starting yarn daemons

starting resourcemanager, logging to /usr/local/hadoop/logs/yarn-hduser-resourcemanager-bdt0.out

localhost: starting nodemanager, logging to /usr/local/hadoop/logs/yarn-hduser-nodemanager-bdt0.out

```
hduser@bdt0:~$
```

```
hduser@bdt0:~$ jps
```

```
hduser@bdt0:~$ jps
```

18113 Jps

17242 DataNode

17468 SecondaryNameNode

17613 ResourceManager

17103 NameNode

17727 NodeManager

```
hduser@bdt0:~$
```

```
hduser@bdt0:~$ netstat -plten | grep java
```

```
hduser@bdt0:~$ netstat -plten | grep java
```

(Not all processes could be identified, non-owned process info
will not be shown, you would have to be root to see it all.)

tcp	0	0	0.0.0.0:50090	0.0.0.0:*	LISTEN
1001	96806		17468/java		
tcp	0	0	0.0.0.0:50075	0.0.0.0:*	LISTEN
1001	97904		17242/java		
tcp	0	0	0.0.0.0:50070	0.0.0.0:*	LISTEN
1001	95008		17103/java		
tcp	0	0	0.0.0.0:50020	0.0.0.0:*	LISTEN
1001	96416		17242/java		
tcp	0	0	0.0.0.0:50010	0.0.0.0:*	LISTEN
1001	97898		17242/java		
tcp	0	0	127.0.0.1:54310	0.0.0.0:*	LISTEN
1001	95220		17103/java		
tcp6	0	0	:::43715	:::*	LISTEN
1001	102989		17727/java		
tcp6	0	0	:::8088	:::*	LISTEN
1001	101182		17613/java		
tcp6	0	0	:::8042	:::*	LISTEN
1001	103000		17727/java		
tcp6	0	0	:::8040	:::*	LISTEN
1001	102996		17727/java		
tcp6	0	0	:::8033	:::*	LISTEN
1001	103774		17613/java		
tcp6	0	0	:::8032	:::*	LISTEN
1001	100571		17613/java		
tcp6	0	0	:::8031	:::*	LISTEN
1001	100563		17613/java		
tcp6	0	0	:::8030	:::*	LISTEN
1001	99746		17613/java		

```
hduser@bdt0:~$
```



```
hduser@bdt0:~$ stop-all.sh
```

```
hduser@bdt0:~$ stop-all.sh
```

This script is Deprecated. Instead use stop-dfs.sh and stop-yarn.sh

WARNING: An illegal reflective access operation has occurred

WARNING: Illegal reflective access by org.apache.hadoop.security.authentication.util.KerberosUtil (file:/usr/local/hadoop/share/hadoop/common/lib/hadoop-auth-2.6.0.jar) to method sun.security.krb5.Config.getInstance()

WARNING: Please consider reporting this to the maintainers of org.apache.hadoop.security.authentication.util.KerberosUtil

WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations

WARNING: All illegal access operations will be denied in a future release

23/05/27 00:06:20 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

Stopping namenodes on [localhost]

localhost: stopping namenode

localhost: stopping datanode

Stopping secondary namenodes [0.0.0.0]

0.0.0.0: stopping secondarynamenode

WARNING: An illegal reflective access operation has occurred

WARNING: Illegal reflective access by org.apache.hadoop.security.authentication.util.KerberosUtil (file:/usr/local/hadoop/share/hadoop/common/lib/hadoop-auth-2.6.0.jar) to method sun.security.krb5.Config.getInstance()

WARNING: Please consider reporting this to the maintainers of org.apache.hadoop.security.authentication.util.KerberosUtil

WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations

WARNING: All illegal access operations will be denied in a future release

23/05/27 00:06:43 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

stopping yarn daemons

stopping resourcemanager

localhost: stopping nodemanager

no proxyserver to stop

```
hduser@bdt0:~$
```

→ Alternate to start hadoop server

```
hduser@bdt0:~$ start-dfs.sh
```

```
hduser@bdt0:~$ start-dfs.sh
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by org.apache.hadoop.security.authentication.
util.KerberosUtil (file:/usr/local/hadoop/share/hadoop/common/lib/hadoop-auth-2.
6.0.jar) to method sun.security.krb5.Config.getInstance()
WARNING: Please consider reporting this to the maintainers of org.apache.hadoop.
security.authentication.util.KerberosUtil
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflect
ive access operations
WARNING: All illegal access operations will be denied in a future release
23/05/27 00:10:49 WARN util.NativeCodeLoader: Unable to load native-hadoop libra
ry for your platform... using builtin-java classes where applicable
Starting namenodes on [localhost]
localhost: starting namenode, logging to /usr/local/hadoop/logs/hadoop-hduser-na
menode-bdt0.out
localhost: starting datanode, logging to /usr/local/hadoop/logs/hadoop-hduser-da
tanode-bdt0.out
Starting secondary namenodes [0.0.0.0]
0.0.0.0: starting secondarynamenode, logging to /usr/local/hadoop/logs/hadoop-hd
user-secondarynamenode-bdt0.out
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by org.apache.hadoop.security.authentication.
util.KerberosUtil (file:/usr/local/hadoop/share/hadoop/common/lib/hadoop-auth-2.
6.0.jar) to method sun.security.krb5.Config.getInstance()
WARNING: Please consider reporting this to the maintainers of org.apache.hadoop.
security.authentication.util.KerberosUtil
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflect
ive access operations
WARNING: All illegal access operations will be denied in a future release
23/05/27 00:11:09 WARN util.NativeCodeLoader: Unable to load native-hadoop libra
ry for your platform... using builtin-java classes where applicable
```

```
hduser@bdt0:~$ start-yarn.sh
```

```
hduser@bdt0:~$ start-yarn.sh
starting yarn daemons
starting resourcemanager, logging to /usr/local/hadoop/logs/yarn-hduser-resource
manager-bdt0.out
localhost: starting nodemanager, logging to /usr/local/hadoop/logs/yarn-hduser-n
odemanager-bdt0.out
hduser@bdt0:~$
```

→ Hadoop Web Interface

To launch Web UI of the NameNode Daemon, open below web link

<http://localhost:50070/>

← → ↻

localhost:50070/dfshealth.html#tab-overview

☆

🔍 📄 ☰

Hadoop

Overview

Datanodes

Snapshot

Startup Progress

Utilities +

Overview 'localhost:54310' (active)

Started:	Sat May 27 00:10:53 IST 2023
Version:	2.6.0, re3496499ecb8d220fba99dc5ed4c99c8f9e33bb1
Compiled:	2014-11-13T21:10Z by jenkins from (detached from e349649)
Cluster ID:	CID-53fae62b-4e8f-4dd6-bb2d-2b25c9cb0540
Block Pool ID:	BP-1880996659-127.0.1.1-1685125492455

Summary

Security is off.

Safemode is off.

1 files and directories, 0 blocks = 1 total filesystem object(s).

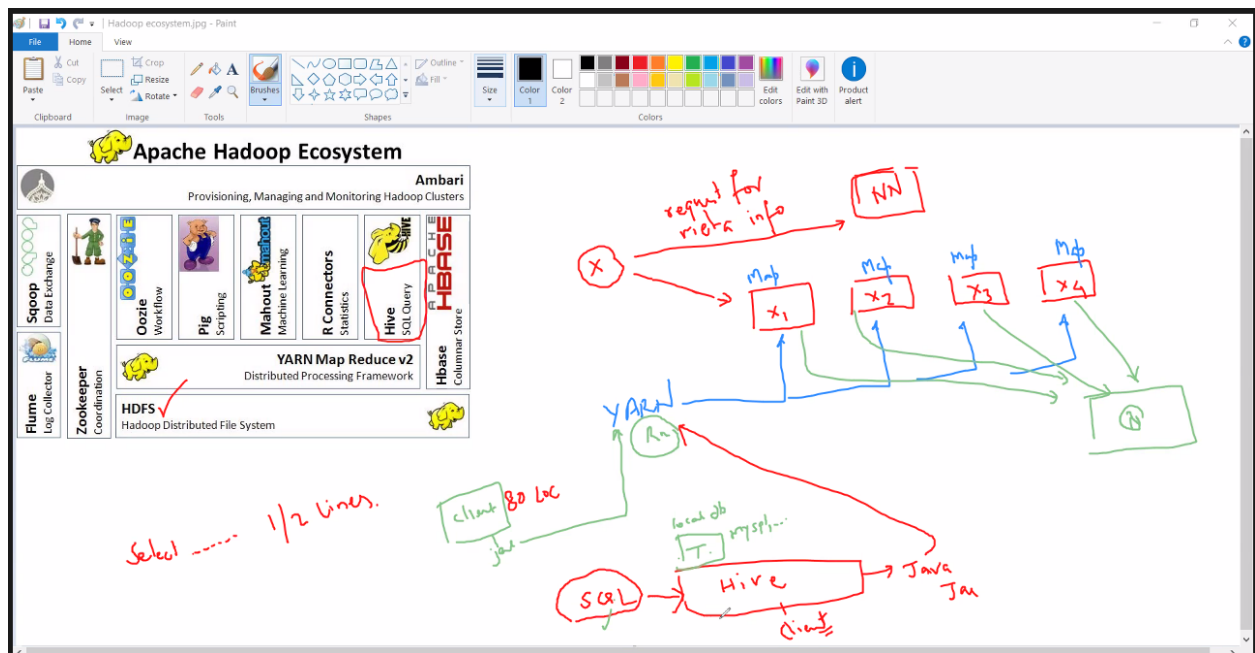
Heap Memory used 55.21 MB of 246 MB Heap Memory. Max Heap Memory is 1000 MB.

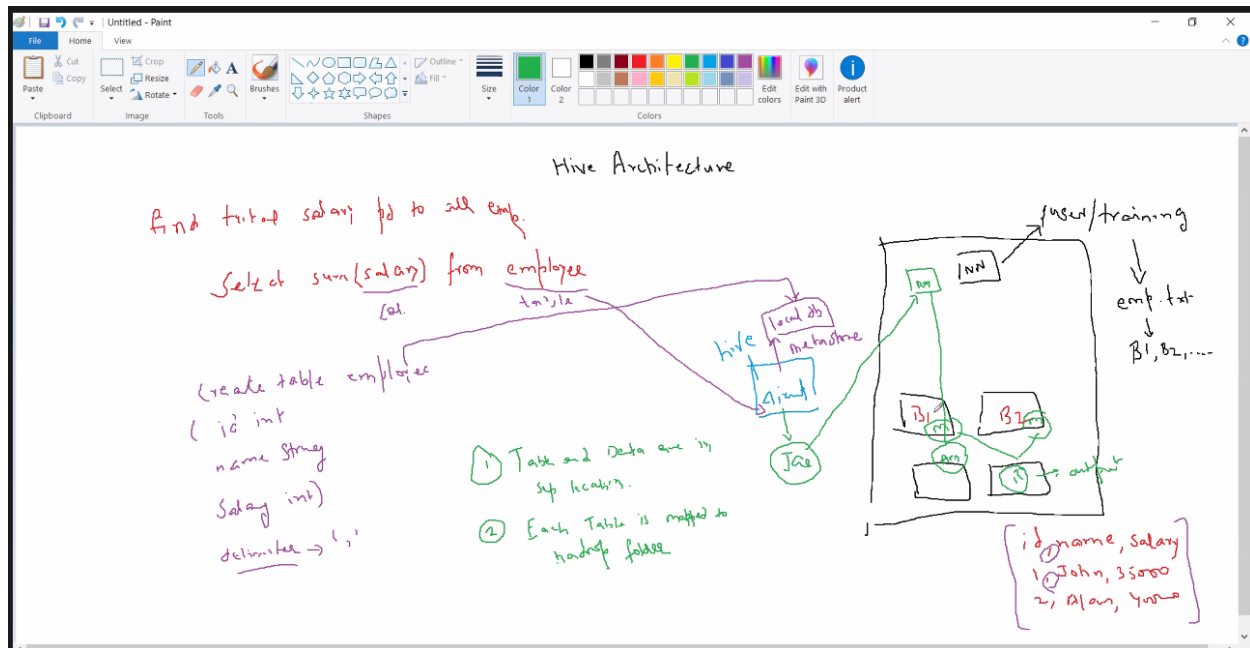
Non Heap Memory used 40.42 MB of 43.55 MB Committed Non Heap Memory. Max Non Heap Memory is -1 B.

Configured Capacity:	48.42 GB
DFS Used:	28 KB
Non DFS Used:	15.55 GB
DFS Remaining:	32.87 GB

→ Hive

- Created by facebook
- Used to submit SQL queries
- Compiles SQL query and convert it into jar file and then jar file will be run by YARN
- It needs a local database, so we first create a local database to store the data from the splits/blocks stored on DataNodes
- The local database should be created considering the structure of data/file being read from DataNodes
- Table and data are in separate folder/location
- Table should be mapped to hadoop folder
- Table is created in meta-store
- Table is just for schema reference
- .





→ hive CLI

start hive cli by using command 'hive'

```
[bigdatalab456422@ip-10-1-1-204 ~]$ hive
```

```
[bigdatalab456422@ip-10-1-1-204 ~]$ hive
WARNING: Use "yarn jar" to launch YARN applications.
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/opt/cloudera/parcels/CDH-6.2.1-1.cdh6.2.1.p0.1425774/jars/log4j-slf4j-impl-2.8.2.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/opt/cloudera/parcels/CDH-6.2.1-1.cdh6.2.1.p0.1425774/jars/slf4j-log4j12-1.7.25.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
SLF4J: Actual binding is of type [org.apache.logging.log4j.LoggerFactory]
2023-06-08 06:02:50,539 main WARN JNDI lookup class is not available because this JRE does not support JNDI. JNDI string lookups will not be available, continuing configuration. Ignoring java.lang.ClassNotFoundException: org.apache.logging.log4j.core.lookup.JndiLookup

Logging initialized using configuration in jar:file:/opt/cloudera/parcels/CDH-6.2.1-1.cdh6.2.1.p0.1425774/jars/hive-common-2.1.1-cdh6.2.1.jar!/hive-log4j2.properties As
ync: false

WARNING: Hive CLI is deprecated and migration to Beeline is recommended.
hive>
```

set hive.cli.print.current.db = true // sets console to print the current database in use

```
hive> set hive.cli.print.current.db = true ;
```

```
hive> set hive.cli.print.current.db = true ;
hive (default)>
```

SHOW DATABASES

```
hive (default)> SHOW DATABASES;
```

```
hive (default)> SHOW DATABASES ;
OK
01_piyali
01piyali
03jan2023
03march2023
03march2023adam
yuvrajyuev
Zaq
zeus_pract
zone
Time taken: 1.537 seconds, Fetched: 1028 row(s)
hive (default)>
```

CREATE DATABASE

```
hive (default)> CREATE DATABASE sandeep_training;
```

```
hive (default)> CREATE DATABASE sandeep_training ;  
FAILED: Execution Error, return code 1 from org.apache.hadoop.hive.q1.exec.DDLTask. Database sandeep_training already exists  
hive (default)>
```

```
hive (default)> CREATE DATABASE surya_training ;
```

OK

Time taken: 0.2 seconds

```
hive (default)>
```

visit this path in hue tool to check contents of database

/user/hive/warehouse/surya_training.db

File Browser

Search for file name

Actions Move to trash

Upload New

Home / user / hive / warehouse / surya_training.db Trash

Name	Size	User	Group	Permissions	Date
.		hive	hive	drwxrwxrwx	May 23, 2023 10:34 PM
.		bigdatalab456422	hive	drwxrwxrwx	May 23, 2023 10:34 PM

Show 45 of 0 items Page 1 of 1

sandeep_training in hue

File Browser

Search for file name

Actions Move to trash

Upload New

Home / user / hive / warehouse / sandeep_training.db Trash

Name	Size	User	Group	Permissions	Date
.		hive	hive	drwxrwxrwx	May 23, 2023 10:26 PM
.		bigdatalab45644	hive	drwxrwxrwx	May 23, 2023 10:22 PM

Show 45 of 0 items Page 1 of 1

Handwritten notes:
/user/hive/warehouse | sandeep_training.db
default path for storing files

change current database

```
hive (default)> USE surya_training ;
```

```
hive (default)> USE surya_training ;  
OK  
Time taken: 0.029 seconds  
hive (surya_training)>
```

show tables in current database

```
hive (surya_training)> SHOW TABLES ;
```

```
OK
```

```
Time taken: 0.067 seconds
```

```
hive (surya_training)>
```

→ while creating table, remember:

- a. No. of cols = no of fields
- b. Proper data types to be used
- c. Proper delimiter to be used

Create table nyse

```
hive (surya_training)> create table nyse (exchange_name string,  
stock_id string, stk_date date,  
                                > open double, high double, low double,  
                                > close double, volume bigint, adj_close double  
                                >  
                                > ) row format delimited  
                                >  
                                > fields terminated by ','  
                                >  
                                > stored as textfile;
```

```
OK
```

```
Time taken: 0.132 seconds
```

```
hive (surya_training)> SHOW TABLES ;
```

```
OK
```

```
nyse
```

```
Time taken: 0.054 seconds, Fetched: 1 row(s)
```

```
hive (surya_training)>
```

DESC

```
hive (surya_training)> DESC nyse ;
```

```
hive (surya_training)> DESC nyse ;
OK
exchange_name      string
stock_id           string
stk_date           date
open               double
high               double
low                double
close              double
volume             bigint
adj_close          double
Time taken: 0.069 seconds, Fetched: 9 row(s)
hive (surya_training)>
```

DESC FORMATTED

```
hive (surya_training)> DESC FORMATTED nyse ;
```

```
hive (surya_training)> DESC FORMATTED nyse ;
OK
# col_name          data_type          comment
exchange_name      string
stock_id           string
stk_date           date
open               double
high               double
low                double
close              double
volume             bigint
adj_close          double

# Detailed Table Information
Database:           surya_training
OwnerType:          USER
Owner:              bigdatalab456422
CreateTime:         Wed May 24 06:13:46 UTC 2023
LastAccessTime:     UNKNOWN
Retention:          0
Location:           hdfs://nameservice1/user/hive/warehouse/surya_training.db/nyse
Table Type:         MANAGED_TABLE
Table Parameters:
  COLUMN_STATS_ACCURATE {\"BASIC_STATS\": \"true\"}
  numFiles              0
  numRows              0
  rawDataSize          0
  totalSize             0
  transient_lastDdlTime 1684908826

# Storage Information
SerDe Library:      org.apache.hadoop.hive.serde2.lazy.LazySimpleSerDe
InputFormat:        org.apache.hadoop.mapred.TextInputFormat
OutputFormat:       org.apache.hadoop.hive.q1.io.HiveIgnoreKeyTextOutputFormat
Compressed:         No
Num Buckets:        -1
Bucket Columns:     []
Sort Columns:       []
Storage Desc Params:
  field.delim        ,
  serialization.format ,
Time taken: 0.077 seconds, Fetched: 40 row(s)
hive (surya_training)>
```

try to print record from nyse table, but it'll not show any record, since table is empty and we've not moved the data to warehouse/database directory

```
hive (surya_training)> SELECT * FROM nyse ;
```

```
OK
```

```
Time taken: 0.366 seconds
```

```
hive (surya_training)>
```

move NYSE.csv to database location as seen in DESC FORMATTED command

```
[bigdatalab456422@ip-10-1-1-204 ~]$ hadoop fs -mv
/user/bigdatalab456422/training/NYSE.csv
/user/hive/warehouse/surya_training.db/nyse
[bigdatalab456422@ip-10-1-1-204 ~]$
```

print record from nyse table


```
hive (surya_training)> SELECT * FROM nyse LIMIT 10 ;
```

```
hive (surya_training)> SELECT * FROM nyse LIMIT 10 ;
OK
NYSE AEA 2010-02-08 4.42 4.42 4.21 4.24 205500 4.24
NYSE AEA 2010-02-05 4.42 4.54 4.22 4.41 194300 4.41
NYSE AEA 2010-02-04 4.55 4.69 4.39 4.42 233800 4.42
NYSE AEA 2010-02-03 4.65 4.69 4.5 4.55 182100 4.55
NYSE AEA 2010-02-02 4.74 5.0 4.62 4.66 222700 4.66
NYSE AEA 2010-02-01 4.84 4.92 4.68 4.75 194800 4.75
NYSE AEA 2010-01-29 4.97 5.05 4.76 4.83 222900 4.83
NYSE AEA 2010-01-28 5.12 5.22 4.81 4.98 283100 4.98
NYSE AEA 2010-01-27 4.82 5.16 4.79 5.09 243500 5.09
NYSE AEA 2010-01-26 5.18 5.18 4.81 4.84 554800 4.84
Time taken: 0.397 seconds, Fetched: 10 row(s)
hive (surya_training)>
```

→ # find the total volume for each stock

```
SELECT stock_id, sum (volume) FROM nyse GROUP BY stock_id ;
```

```
hive (surya_training)> SELECT stock_id, sum (volume) FROM nyse GROUP
BY stock_id ;
```

```
hive (surya_training)> SELECT stock_id, sum(volume) FROM nyse GROUP BY stock_id ;
Query ID = bigdata1ab456422_20230608064000_5694e1d7-32ee-4c8c-aad7-f43c129cf95c
Total jobs: 1
Launching Job 1 out of 1
Number of reduce tasks not specified. Estimated from input data size: 1
In order to change the average load for a reducer (in bytes):
  set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
  set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
  set mapreduce.job.reduces=<number>
23/06/08 06:40:00 INFO client.RMProxy: Connecting to ResourceManager at ip-10-1-1-204.ap-south-1.compute.internal/10.1.1.204:8032
23/06/08 06:40:00 INFO client.RMProxy: Connecting to ResourceManager at ip-10-1-1-204.ap-south-1.compute.internal/10.1.1.204:8032
Starting Job = job_1685754149182_1624, Tracking URL = http://ip-10-1-1-204.ap-south-1.compute.internal:6066/proxy/application_1685754149182_1624/
Kill Command = /opt/cloudera/parcels/CDH-6.2.1-1.cdh6.2.1.p0.1425774/lib/hadoop/bin/hadoop job -kill job_1685754149182_1624
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2023-06-08 06:40:09,263 Stage-1 map = 0%, reduce = 0%
2023-06-08 06:40:16,435 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 5.08 sec
2023-06-08 06:40:22,571 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 8.07 sec
MapReduce Total cumulative CPU time: 8 seconds 70 msec
Ended Job = job_1685754149182_1624
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 8.07 sec HDFS Read: 41000657 HDFS Write: 5441 HDFS EC Read: 0 SUCCESS
Total MapReduce CPU Time Spent: 8 seconds 70 msec
OK
AA 42061448400
AAI 5246821400
AAN 817567400
AAP 2802701500
AAR 49882000
AAV 824746600
ATW 17441000
AYR 472431800
AZN 3418077300
AZO 3366821200
AZZ 323604700
Time taken: 23.324 seconds, Fetched: 203 row(s)
hive (surya_training)>
```

→ # highest vol - top 10 stocks

```
SELECT stock_id, sum(volume) AS total_vol FROM nyse GROUP BY stock_id ORDER BY
total_vol DESC LIMIT 10;
```

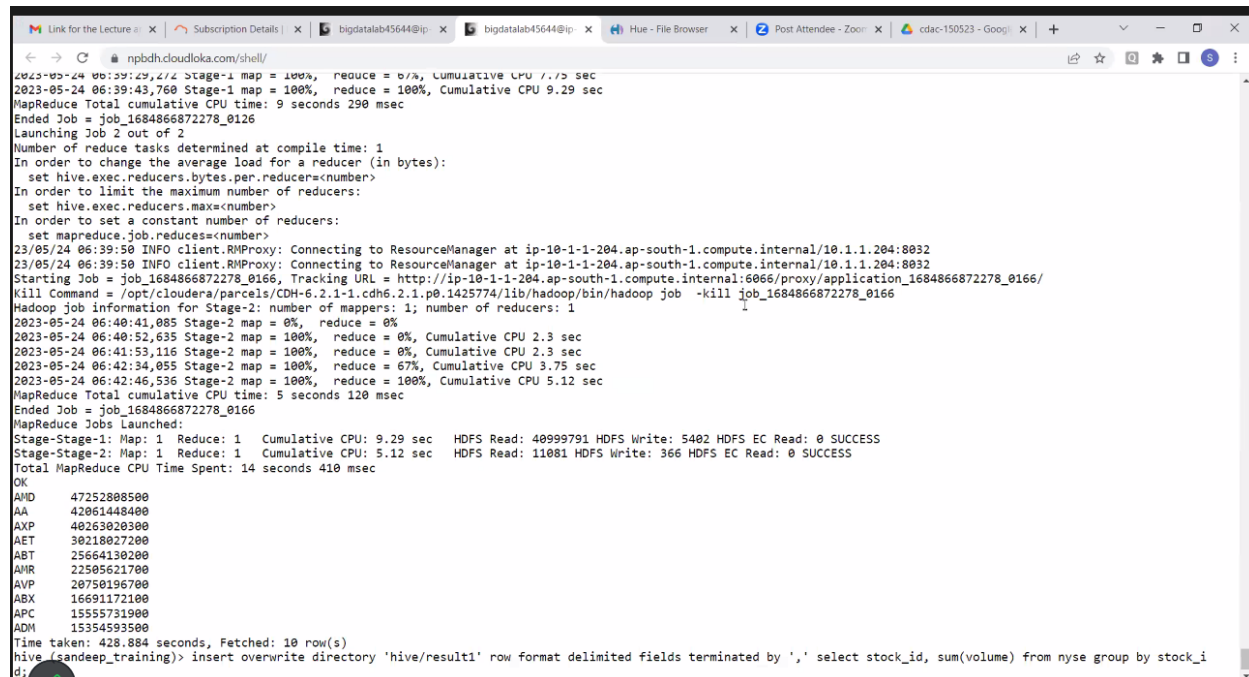
```
hive (surya_training)> SELECT stock_id, sum(volume) AS total_vol FROM
nyse GROUP BY stock_id ORDER BY total_vol DESC LIMIT 10;
```

```

hive> SELECT stock_id, sum(volume) AS total_vol FROM nyse GROUP BY stock_id ORDER BY total_vol DESC LIMIT 10;
Query ID = bigdatalab456422_20230608070630_2edc1c11-771d-48ea-9066-6146beed2cae
Total jobs = 2
Launching Job 1 out of 2
Number of reduce tasks not specified. Estimated from input data size: 1
In order to change the average load for a reducer (in bytes):
  set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
  set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
  set mapreduce.job.reduces=<number>
23/06/08 07:06:33 INFO client.RMProxy: Connecting to ResourceManager at ip-10-1-1-204.ap-south-1.compute.internal/10.1.1.204:8032
23/06/08 07:06:33 INFO client.RMProxy: Connecting to ResourceManager at ip-10-1-1-204.ap-south-1.compute.internal/10.1.1.204:8032
Starting Job = job_1685754149182_1638, Tracking URL = http://ip-10-1-1-204.ap-south-1.compute.internal:6066/proxy/application_1685754149182_1638/
Kill Command = /opt/cloudera/parcels/CDH-6.2.1-1.cdh6.2.1.p0.1425774/lib/hadoop/bin/hadoop job -kill job_1685754149182_1638
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2023-06-08 07:06:42,332 Stage-1 map = 0%, reduce = 0%
2023-06-08 07:06:50,554 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 5.2 sec
2023-06-08 07:06:58,757 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 7.46 sec
MapReduce Total cumulative CPU time: 7 seconds 460 msec
Ended Job = job_1685754149182_1638
Launching Job 2 out of 2
Number of reduce tasks determined at compile time: 1
In order to change the average load for a reducer (in bytes):
  set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
  set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
  set mapreduce.job.reduces=<number>
23/06/08 07:06:59 INFO client.RMProxy: Connecting to ResourceManager at ip-10-1-1-204.ap-south-1.compute.internal/10.1.1.204:8032
23/06/08 07:06:59 INFO client.RMProxy: Connecting to ResourceManager at ip-10-1-1-204.ap-south-1.compute.internal/10.1.1.204:8032
Starting Job = job_1685754149182_1639, Tracking URL = http://ip-10-1-1-204.ap-south-1.compute.internal:6066/proxy/application_1685754149182_1639/
Kill Command = /opt/cloudera/parcels/CDH-6.2.1-1.cdh6.2.1.p0.1425774/lib/hadoop/bin/hadoop job -kill job_1685754149182_1639
Hadoop job information for Stage-2: number of mappers: 1; number of reducers: 1
2023-06-08 07:07:10,974 Stage-2 map = 0%, reduce = 0%
2023-06-08 07:07:18,127 Stage-2 map = 100%, reduce = 0%, Cumulative CPU 1.74 sec
2023-06-08 07:07:25,300 Stage-2 map = 100%, reduce = 100%, Cumulative CPU 4.16 sec
MapReduce Total cumulative CPU time: 4 seconds 160 msec
Ended Job = job_1685754149182_1639

MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 7.46 sec HDFS Read: 40999570 HDFS Write: 5402 HDFS EC Read: 0 SUCCESS
Stage-Stage-2: Map: 1 Reduce: 1 Cumulative CPU: 4.16 sec HDFS Read: 11096 HDFS Write: 366 HDFS EC Read: 0 SUCCESS
Total MapReduce CPU Time Spent: 11 seconds 620 msec
OK
AMD 47252808500
AA 42061448400
AXP 40263020300
AET 30218027200
ABT 25664130200
AMR 22505621700
AVP 20750196700
ABX 16691172100
APC 15555731900
ADM 15354593500
Time taken: 55.688 seconds, Fetched: 10 row(s)
hive>

```



```

2023-05-24 06:39:29,272 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 7.73 sec
2023-05-24 06:39:43,760 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 9.29 sec
MapReduce Total cumulative CPU time: 9 seconds 290 msec
Ended Job = job_1684866872278_0126
Launching Job 2 out of 2
Number of reduce tasks determined at compile time: 1
In order to change the average load for a reducer (in bytes):
  set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
  set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
  set mapreduce.job.reduces=<number>
23/05/24 06:39:50 INFO client.RMProxy: Connecting to ResourceManager at ip-10-1-1-204.ap-south-1.compute.internal/10.1.1.204:8032
23/05/24 06:39:50 INFO client.RMProxy: Connecting to ResourceManager at ip-10-1-1-204.ap-south-1.compute.internal/10.1.1.204:8032
Starting Job = job_1684866872278_0166, Tracking URL = http://ip-10-1-1-204.ap-south-1.compute.internal:6066/proxy/application_1684866872278_0166/
Kill Command = /opt/cloudera/parcels/CDH-6.2.1-1.cdh6.2.1.p0.1425774/lib/hadoop/bin/hadoop job -kill job_1684866872278_0166
Hadoop job information for Stage-2: number of mappers: 1; number of reducers: 1
2023-05-24 06:40:41,085 Stage-2 map = 0%, reduce = 0%
2023-05-24 06:40:52,635 Stage-2 map = 100%, reduce = 0%, Cumulative CPU 2.3 sec
2023-05-24 06:41:53,116 Stage-2 map = 100%, reduce = 0%, Cumulative CPU 2.3 sec
2023-05-24 06:42:34,055 Stage-2 map = 100%, reduce = 67%, Cumulative CPU 3.75 sec
2023-05-24 06:42:46,536 Stage-2 map = 100%, reduce = 100%, Cumulative CPU 5.12 sec
MapReduce Total cumulative CPU time: 5 seconds 120 msec
Ended Job = job_1684866872278_0166
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 9.29 sec HDFS Read: 40999791 HDFS Write: 5402 HDFS EC Read: 0 SUCCESS
Stage-Stage-2: Map: 1 Reduce: 1 Cumulative CPU: 5.12 sec HDFS Read: 11081 HDFS Write: 366 HDFS EC Read: 0 SUCCESS
Total MapReduce CPU Time Spent: 14 seconds 410 msec
OK
AMD 47252808500
AA 42061448400
AXP 40263020300
AET 30218027200
ABT 25664130200
AMR 22505621700
AVP 20750196700
ABX 16691172100
APC 15555731900
ADM 15354593500
Time taken: 428.884 seconds, Fetched: 10 row(s)
hive (sandeeep_training)> insert overwrite directory 'hive/result1' row format delimited fields terminated by ',' select stock_id, sum(volume) from nyse group by stock_id;

```

→ # find all time low price for each stock

SELECT stock_id, min(low) FROM nyse GROUP BY stock_id;

hive (surya_training)> SELECT stock_id, min(low) FROM nyse GROUP BY stock_id;

```
hive> SELECT stock_id, min(low) FROM nyse GROUP BY stock_id;
Query ID = bigdatalab456422_20230608073534_bcef23c9-b3a3-47ee-b111-9bf9835023b5
Total jobs = 1
Launching Job 1 out of 1
Number of reduce tasks not specified. Estimated from input data size: 1
In order to change the average load for a reducer (in bytes):
  set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
  set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
  set mapreduce.job.reduces=<number>
23/06/08 07:35:34 INFO client.RMProxy: Connecting to ResourceManager at ip-10-1-1-204.ap-south-1.compute.internal/10.1.1.204:8032
23/06/08 07:35:34 INFO client.RMProxy: Connecting to ResourceManager at ip-10-1-1-204.ap-south-1.compute.internal/10.1.1.204:8032
Starting Job = job_1685754149182_1660, Tracking URL = http://ip-10-1-1-204.ap-south-1.compute.internal:6066/proxy/application_1685754149182_1660/
Kill Command = /opt/cloudera/parcels/CDH-6.2.1-1.cdh6.2.1.p0.1425774/lib/hadoop/bin/hadoop job -kill job_1685754149182_1660
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2023-06-08 07:35:44,568 Stage-1 map = 0%, reduce = 0%
2023-06-08 07:35:53,827 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 5.55 sec
2023-06-08 07:36:02,005 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 8.39 sec
MapReduce Total cumulative CPU time: 8 seconds 390 msec
Ended Job = job_1685754149182_1660
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 8.39 sec HDFS Read: 41000523 HDFS Write: 4363 HDFS EC Read: 0 SUCCESS
Total MapReduce CPU Time Spent: 8 seconds 390 msec
OK
AA 4.97
AAI 1.28
AAN 6.94
AAD 74.03
AYE 2.95
AYI 10.7
AYN 6.93
AYR 2.54
AZN 22.29
AZO 19.5
AZZ 2.06
Time taken: 29.661 seconds, Fetched: 203 row(s)
hive>
```

→ # find all time high price for each stock

SELECT stock_id, max(high) FROM nyse GROUP BY stock_id;

hive (surya_training)> SELECT stock_id, max(high) FROM nyse GROUP BY stock_id;

```
hive> SELECT stock_id, max(high) FROM nyse GROUP BY stock_id;
Query ID = bigdatalab456422_20230608074158_9cf6cba4-2023-4704-9b7f-8682fc3bdad7
Total jobs = 1
Launching Job 1 out of 1
Number of reduce tasks not specified. Estimated from input data size: 1
In order to change the average load for a reducer (in bytes):
  set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
  set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
  set mapreduce.job.reduces=<number>
23/06/08 07:41:58 INFO client.RMProxy: Connecting to ResourceManager at ip-10-1-1-204.ap-south-1.compute.internal/10.1.1.204:8032
23/06/08 07:41:58 INFO client.RMProxy: Connecting to ResourceManager at ip-10-1-1-204.ap-south-1.compute.internal/10.1.1.204:8032
Starting Job = job_1685754149182_1662, Tracking URL = http://ip-10-1-1-204.ap-south-1.compute.internal:6066/proxy/application_1685754149182_1662/
Kill Command = /opt/cloudera/parcels/CDH-6.2.1-1.cdh6.2.1.p0.1425774/lib/hadoop/bin/hadoop job -kill job_1685754149182_1662
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2023-06-08 07:42:10,090 Stage-1 map = 0%, reduce = 0%
2023-06-08 07:42:19,356 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 5.61 sec
2023-06-08 07:42:27,562 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 9.64 sec
MapReduce Total cumulative CPU time: 9 seconds 640 msec
Ended Job = job_1685754149182_1662
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 9.64 sec HDFS Read: 41000525 HDFS Write: 4521 HDFS EC Read: 0 SUCCESS
Total MapReduce CPU Time Spent: 9 seconds 640 msec
OK
AA 94.62
AAI 57.88
AAN 35.21
AAP 83.65
AAD 75.75
ADY 44.0
AEA 23.94
AEB 26.5
AYE 05.40
AYI 66.89
AYN 15.42
AYR 41.31
AZN 145.41
AZO 169.99
AZZ 59.2
Time taken: 30.089 seconds, Fetched: 203 row(s)
hive>
```

→ # save total volume for each stock in file

```

INSERT OVERWRITE DIRECTORY 'hive/result1' ROW FORMAT DELIMITED FIELDS
TERMINATED BY ',' SELECT stock_id, sum(volume) FROM nyse GROUP BY stock_id;
hive (surya_training)> INSERT OVERWRITE DIRECTORY 'hive/result1' ROW
FORMAT DELIMITED FIELDS TERMINATED BY ',' SELECT stock_id,
sum(volume) FROM nyse GROUP BY stock_id;

```

```

hive (pwh)>
  > INSERT OVERWRITE DIRECTORY "pwh/sum_vol" ROW FORMAT DELIMITED FIELDS TERMINATED BY ','
  >
  > SELECT stock_id , SUM(volume) FROM nyse GROUP BY stock_id;Query ID = bigdatalab456422_20230608165438_2d8830bd-c676-4b7d-b659-ad432045ff45
Total jobs = 1
Launching Job 1 out of 1
Number of reduce tasks not specified. Estimated from input data size: 1
In order to change the average load for a reducer (in bytes):
  set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
  set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
  set mapreduce.job.reduces=<number>
23/06/08 16:54:38 INFO client.RMProxy: Connecting to ResourceManager at ip-10-1-1-204.ap-south-1.compute.internal/10.1.1.204:8032
23/06/08 16:54:38 INFO client.RMProxy: Connecting to ResourceManager at ip-10-1-1-204.ap-south-1.compute.internal/10.1.1.204:8032
Starting Job = job_1685754149182_1878, Tracking URL = http://ip-10-1-1-204.ap-south-1.compute.internal:6066/proxy/application_1685754149182_1878/
Kill Command = /opt/cloudera/parcels/CDH-6.2.1-1.cdh6.2.1.p0.1425774/lib/hadoop/bin/hadoop job -kill job_1685754149182_1878
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2023-06-08 16:54:56,443 Stage-1 map = 0%, reduce = 0%
2023-06-08 16:55:29,266 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 4.77 sec
2023-06-08 16:55:40,468 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 7.97 sec
MapReduce Total cumulative CPU time: 7 seconds 970 msec
Ended Job = job_1685754149182_1878
Moving data to directory pwh/sum_vol
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 7.97 sec HDFS Read: 41000180 HDFS Write: 2918 HDFS EC Read: 0 SUCCESS
Total MapReduce CPU Time Spent: 7 seconds 970 msec
OK
Time taken: 63.199 seconds
hive (pwh)>

```

Query ID =

bigdatalab456422_20230524071018_0a7286c1-718f-4a18-897d-7c8567317622

Total jobs = 1

Launching Job 1 out of 1

Number of reduce tasks not specified. Estimated from input data size:
1

In order to change the average load for a reducer (in bytes):

set hive.exec.reducers.bytes.per.reducer=<number>

In order to limit the maximum number of reducers:

set hive.exec.reducers.max=<number>

In order to set a constant number of reducers:

set mapreduce.job.reduces=<number>

23/05/24 07:10:19 INFO client.RMProxy: Connecting to ResourceManager
at ip-10-1-1-204.ap-south-1.compute.internal/10.1.1.204:8032

23/05/24 07:10:19 INFO client.RMProxy: Connecting to ResourceManager
at ip-10-1-1-204.ap-south-1.compute.internal/10.1.1.204:8032

Starting Job = job_1684866872278_0374, Tracking URL =

http://ip-10-1-1-204.ap-south-1.compute.internal:6066/proxy/application_1684866872278_0374/

Kill Command =

/opt/cloudera/parcels/CDH-6.2.1-1.cdh6.2.1.p0.1425774/lib/hadoop/bin/
hadoop job -kill job_1684866872278_0374

Hadoop job information for Stage-1: number of mappers: 1; number of
reducers: 1

2023-05-24 07:11:26,556 Stage-1 map = 0%, reduce = 0%

2023-05-24 07:11:54,284 Stage-1 map = 100%, reduce = 0%, Cumulative
CPU 6.1 sec

→ # save AllTimeHigh, AllTimeLow, AverageClose for each stock in file
 INSERT OVERWRITE DIRECTORY 'hive/result2' ROW FORMAT DELIMITED FIELDS
 TERMINATED BY ',' SELECT stock_id, max(high), min(low), round(avg(close), 2) FROM nyse
 GROUP BY stock_id;
 hive (surya_training)> INSERT OVERWRITE DIRECTORY 'hive/result2' ROW
 FORMAT DELIMITED FIELDS TERMINATED BY ',' SELECT stock_id, max(high),
 min(low), round(avg(close), 2
) FROM nyse GROUP BY stock_id;

```
> INSERT OVERWRITE DIRECTORY "pwh/all_time_high_low_avg" ROW FORMAT DELIMITED FIELDS TERMINATED BY ','
>
> SELECT stock_id, max(high), min(low), round(avg(close), 2) FROM nyse GROUP BY stock_id ;
Query ID = bigdatalab456422_20230608170149_23e2e955-ea2f-429e-b66c-16f4fd5215a2
Total jobs = 1
Launching Job 1 out of 1
Number of reduce tasks not specified. Estimated from input data size: 1
In order to change the average load for a reducer (in bytes):
  set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
  set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
  set mapreduce.job.reduces=<number>
23/06/08 17:01:49 INFO client.RMProxy: Connecting to ResourceManager at ip-10-1-1-204.ap-south-1.compute.internal/10.1.1.204:8032
23/06/08 17:01:49 INFO client.RMProxy: Connecting to ResourceManager at ip-10-1-1-204.ap-south-1.compute.internal/10.1.1.204:8032
Starting Job = job_1685754149182_1890, Tracking URL = http://ip-10-1-1-204.ap-south-1.compute.internal:6066/proxy/application_1685754149182_1890/
Kill Command = /opt/cloudera/parcels/CDH-6.2.1-1.cdh6.2.1.p0.1425774/lib/hadoop/bin/hadoop job -kill job_1685754149182_1890
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2023-06-08 17:02:03,080 Stage-1 map = 0%, reduce = 0%
2023-06-08 17:02:18,663 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 6.76 sec
2023-06-08 17:02:25,894 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 11.93 sec
MapReduce Total cumulative CPU time: 11 seconds 930 msec
Ended Job = job_1685754149182_1890
Moving data to directory pwh/all_time_high_low_avg
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 11.93 sec HDFS Read: 41002198 HDFS Write: 4215 HDFS EC Read: 0 SUCCESS
Total MapReduce CPU Time Spent: 11 seconds 930 msec
OK
Time taken: 37.572 seconds
hive (pwh)>
```

Query ID =
 bigdatalab456422_20230524072336_7a5d4b20-1939-4828-8699-8a49ed1fef3f
 Total jobs = 1
 Launching Job 1 out of 1
 Number of reduce tasks not specified. Estimated from input data size:
 1
 In order to change the average load for a reducer (in bytes):
 set hive.exec.reducers.bytes.per.reducer=<number>
 In order to limit the maximum number of reducers:
 set hive.exec.reducers.max=<number>
 In order to set a constant number of reducers:
 set mapreduce.job.reduces=<number>
 23/05/24 07:23:36 INFO client.RMProxy: Connecting to ResourceManager
 at ip-10-1-1-204.ap-south-1.compute.internal/10.1.1.204:8032
 23/05/24 07:23:36 INFO client.RMProxy: Connecting to ResourceManager
 at ip-10-1-1-204.ap-south-1.compute.internal/10.1.1.204:8032
 Starting Job = job_1684866872278_0396, Tracking URL =
[http://ip-10-1-1-204.ap-south-1.compute.internal:6066/proxy/applicati
 on_1684866872278_0396/](http://ip-10-1-1-204.ap-south-1.compute.internal:6066/proxy/application_1684866872278_0396/)
 Kill Command =
 /opt/cloudera/parcels/CDH-6.2.1-1.cdh6.2.1.p0.1425774/lib/hadoop/bin/
 hadoop job -kill job_1684866872278_0396
 Hadoop job information for Stage-1: number of mappers: 1; number of
 reducers: 1

```

2023-05-24 07:23:51,461 Stage-1 map = 0%,  reduce = 0%
2023-05-24 07:24:07,120 Stage-1 map = 100%,  reduce = 0%, Cumulative
CPU 8.59 sec
2023-05-24 07:24:16,561 Stage-1 map = 100%,  reduce = 100%,
Cumulative CPU 13.89 sec
MapReduce Total cumulative CPU time: 13 seconds 890 msec
Ended Job = job_1684866872278_0396
Moving data to directory hive/result2
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1  Reduce: 1    Cumulative CPU: 13.89 sec    HDFS
Read: 41002190 HDFS Write: 4215 HDFS EC Read: 0 SUCCESS
Total MapReduce CPU Time Spent: 13 seconds 890 msec
OK
Time taken: 41.592 seconds
hive (surya_training)>

```

File Browser

Actions

Move to trash

Upload

New

Home

/ user / bigdatalab456422 / hive / result2

Trash

	Name	Size	User	Group	Permissions	Date
	↑		bigdatalab456422	bigdatalab456422	drwxr-xr-x	May 24, 2023 12:23 AM
	.		bigdatalab456422	bigdatalab456422	drwxr-xr-x	May 24, 2023 12:24 AM
	000000_0	4.1 KB	bigdatalab456422	bigdatalab456422	-rwxr-xr-x	May 24, 2023 12:24 AM

Show 45 of 1 items

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⏩

⏴

⏵

File Browser

Back

Home

Page 1 to 2 of 2

Edit file

/ user / bigdatalab456422 / hive / result2 / 000000_0

Refresh

View as binary

Download

Last modified

05/24/2023 12:54 PM +05:30

User

bigdatalab456422

Group

bigdatalab456422

Size

4.12 KB

Mode

100755

ACM,38.25,14.43,27.32

ACN,44.03,11.3,28.22

ACO,42.7,2.88,15.48

ACS,109.55,17.0,46.99

ACV,65.32,12.5,32.2

ADC,37.7,8.35,20.2

ADI,185.5,5.5,28.54

ADM,48.95,8.19,19.89

ADP,84.31,27.24,46.84

ADS,80.79,11.05,42.15

ADX,40.56,4.03,12.84

ADY,44.0,0.95,10.25

AEA,23.94,0.0,10.57

AEB,26.5,2.48,18.92

AEC,17.6,4.82,10.67

AED,26.12,2.97,19.99

AEE,56.77,19.51,41.68

AEF,27.0,3.33,17.96

AEG,148.32,2.25,38.07

→ # save total volume of each stock in another table

```
CREATE TABLE stkvol AS SELECT stock_id, sum(volume) AS total_vol FROM nyse GROUP BY stock_id;
```

```
hive (surya_training)> SHOW TABLES ;
```

```
OK
```

```
nyse
```

```
Time taken: 0.034 seconds, Fetched: 1 row(s)
```

```
hive (surya_training)> CREATE TABLE stkvol AS SELECT stock_id, sum(volume) AS total_vol FROM nyse GROUP BY stock_id;
```

```
> CREATE TABLE stkvol AS
> SELECT stock_id, SUM(volume) FROM nyse GROUP BY stock_id;
Query ID = bigdatalab456422_20230608171134_45a85c52-728f-43f6-a663-c75f79e95d3b
Total jobs = 1
Launching Job 1 out of 1
Number of reduce tasks not specified. Estimated from input data size: 1
In order to change the average load for a reducer (in bytes):
  set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
  set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
  set mapreduce.job.reduces=<number>
23/06/08 17:11:34 INFO client.RMProxy: Connecting to ResourceManager at ip-10-1-1-204.ap-south-1.compute.internal/10.1.1.204:8032
23/06/08 17:11:34 INFO client.RMProxy: Connecting to ResourceManager at ip-10-1-1-204.ap-south-1.compute.internal/10.1.1.204:8032
Starting Job = job_1685754149182_1901, Tracking URL = http://ip-10-1-1-204.ap-south-1.compute.internal:6066/proxy/application_1685754149182_1901/
Kill Command = /opt/cloudera/parcels/CDH-6.2.1-1.cdh6.2.1.p0.1425774/lib/hadoop/bin/hadoop job -kill job_1685754149182_1901
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2023-06-08 17:11:43,708 Stage-1 map = 0%, reduce = 0%
2023-06-08 17:11:52,892 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 3.66 sec
2023-06-08 17:12:00,032 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 6.13 sec
MapReduce Total cumulative CPU time: 6 seconds 130 msec
Ended Job = job_1685754149182_1901
Moving data to directory hdfs://nameservice1/user/hive/warehouse/pwh.db/stkvol
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 6.13 sec HDFS Read: 41000278 HDFS Write: 2987 HDFS EC Read: 0 SUCCESS
Total MapReduce CPU Time Spent: 6 seconds 130 msec
OK
Time taken: 28.299 seconds
hive (pwh)>
```

```
Query ID =
```

```
bigdatalab456422_20230524073028_d3a92865-6298-4b0b-8208-c8a9bd75ac9d
```

```
Total jobs = 1
```

```
Launching Job 1 out of 1
```

```
Number of reduce tasks not specified. Estimated from input data size:
```

```
1
```

```
In order to change the average load for a reducer (in bytes):
```

```
  set hive.exec.reducers.bytes.per.reducer=<number>
```

```
In order to limit the maximum number of reducers:
```

```
  set hive.exec.reducers.max=<number>
```

```
In order to set a constant number of reducers:
```

```
  set mapreduce.job.reduces=<number>
```

```
23/05/24 07:30:28 INFO client.RMProxy: Connecting to ResourceManager at ip-10-1-1-204.ap-south-1.compute.internal/10.1.1.204:8032
```

```
23/05/24 07:30:28 INFO client.RMProxy: Connecting to ResourceManager at ip-10-1-1-204.ap-south-1.compute.internal/10.1.1.204:8032
```

```
Starting Job = job_1684866872278_0397, Tracking URL =
```

```
http://ip-10-1-1-204.ap-south-1.compute.internal:6066/proxy/application\_1684866872278\_0397/
```

```
Kill Command =
```

```
/opt/cloudera/parcels/CDH-6.2.1-1.cdh6.2.1.p0.1425774/lib/hadoop/bin/hadoop job -kill job_1684866872278_0397
```


Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1

2023-05-24 07:30:37,678 Stage-1 map = 0%, reduce = 0%

2023-05-24 07:30:47,000 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 4.11 sec

2023-05-24 07:30:54,291 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 7.21 sec

MapReduce Total cumulative CPU time: 7 seconds 210 msec

Ended Job = job_1684866872278_0397

Moving data to directory

`hdfs://nameservicel/user/hive/warehouse/surya_training.db/stkvol`

MapReduce Jobs Launched:

Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 7.21 sec HDFS

Read: 41000385 HDFS Write: 2998 HDFS EC Read: 0 SUCCESS

Total MapReduce CPU Time Spent: 7 seconds 210 msec

OK

Time taken: 28.605 seconds

hive (surya_training)> SHOW TABLES ;

OK

`nyse`

`stkvol`

Time taken: 0.037 seconds, Fetched: 2 row(s)

hive (surya_training)> SELECT * FROM stkvol LIMIT 10;

OK

AA 42061448400

AAI 5246821400

AAN 817567400

AAP 2802701500

AAR 49882000

AAV 834246600

AB 1125446300

ABA 11686500

ABB 4532301800

ABC 11439581700

Time taken: 0.081 seconds, Fetched: 10 row(s)

hive (surya_training)>