

EXP NO:6

DATE:

INSTALLATION OF HIVE WITH PRACTICE EXAMPLES

AIM: To install Hive on Windows operationg system with practice examples.

STEPS:

STEP 1: Install Apache Derby from the official derby website

https://db.apache.org/derby/derby_downloads.html according to your Java Version

Installed on your system.

The screenshot shows the Apache Derby Downloads page. The left sidebar has a 'Download' section with links for 'Overview', 'The Apache Software Foundation', and search functions. The main content area is titled 'Apache Derby: Downloads' and lists releases for various Java versions. Each section contains a list of available releases with their names and dates.

Java Version	Available Releases
For Java 17 and Higher	10.16.1.1 (May 19, 2022 / SVN 1901046)
For Java 9 and Higher	10.15.2.0 (February 18, 2020 / SVN 1873585) 10.15.1.3 (March 5, 2019 / SVN 1853019)
For Java 8 and Higher	10.14.2.0 (May 3, 2018 / SVN 1828579) 10.13.1.1 (October 25, 2016 / SVN 1766613)
For Java 6 and Higher	10.12.1.1 (October 11, 2015 / SVN 1704137) 10.11.1.1 (August 26, 2014 / SVN 1616546)
For Java 1.4 and Higher	10.10.2.0 (April 15, 2014 / SVN 1582446) 10.10.1.1 (April 15, 2013 / SVN 1458268) 10.9.1.0 (June 25, 2012 / SVN 1344872) 10.8.3.0 (November 16, 2012 / SVN 1405108) 10.8.2.2 (October 24, 2011 / SVN 1181588)

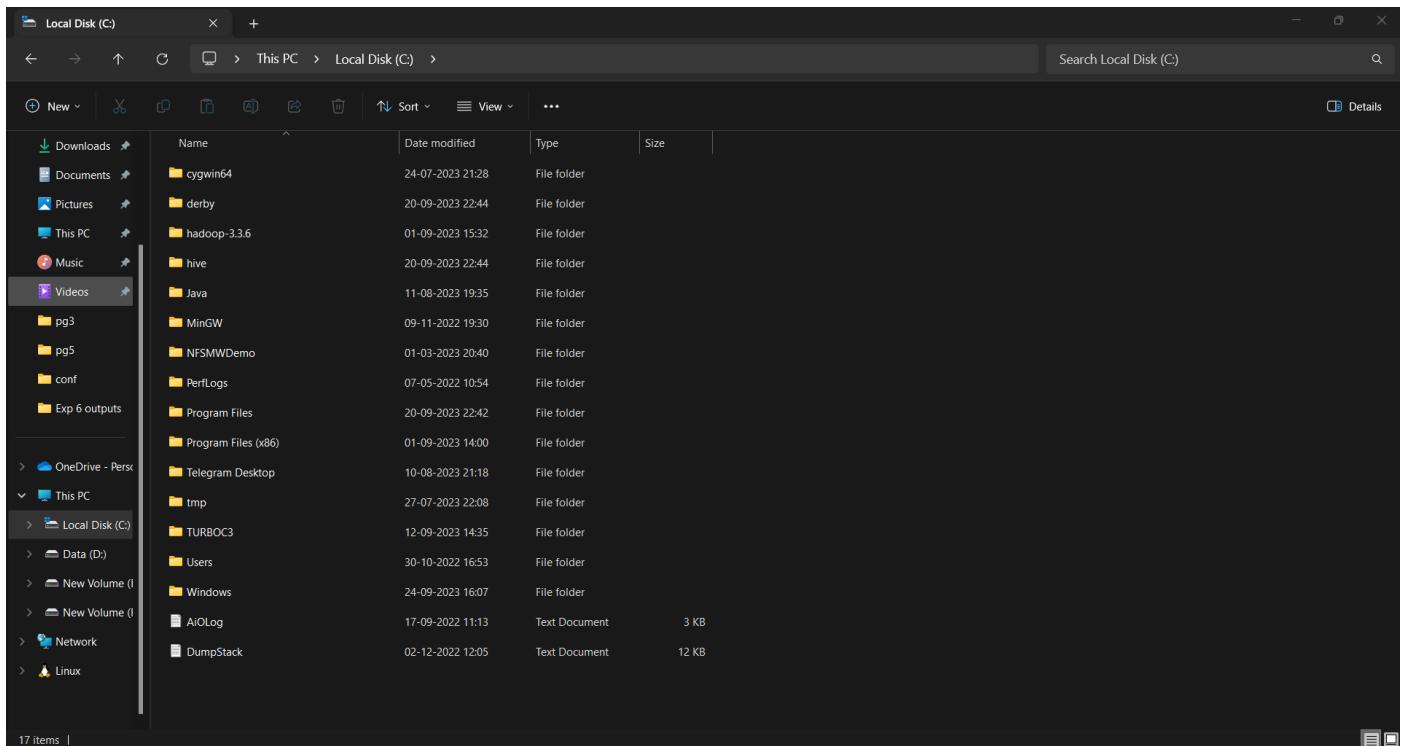
STEP 2: Install Apache Hive 3.1.2 version from the official website

<https://downloads.apache.org/hive/hive-3.1.2/>

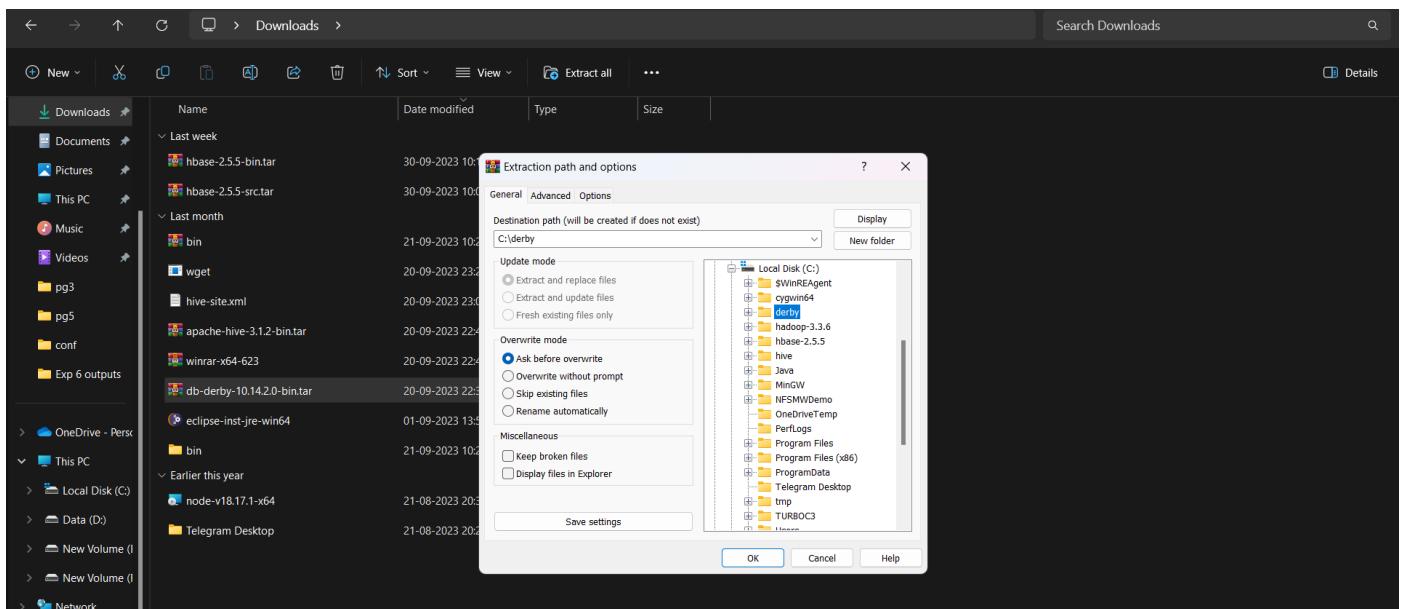
The screenshot shows the Apache Hive 3.1.2 download page. The top navigation bar includes links for 'Parent Directory', 'apache-hive-3.1.2-bin.tar.gz', 'apache-hive-3.1.2-bin.tar.gz.asc', 'apache-hive-3.1.2-bin.tar.gz.sha256', 'apache-hive-3.1.2-src.tar.gz', 'apache-hive-3.1.2-src.tar.gz.asc', and 'apache-hive-3.1.2-src.tar.gz.sha256'. Below the navigation bar is a table listing the files with their last modified date, size, and description.

Name	Last modified	Size	Description
Parent Directory	-	-	-
apache-hive-3.1.2-bin.tar.gz	2019-08-26 20:20	266M	
apache-hive-3.1.2-bin.tar.gz.asc	2019-08-26 20:20	833	
apache-hive-3.1.2-bin.tar.gz.sha256	2019-08-26 20:20	95	
apache-hive-3.1.2-src.tar.gz	2019-08-26 20:20	24M	
apache-hive-3.1.2-src.tar.gz.asc	2019-08-26 20:20	833	
apache-hive-3.1.2-src.tar.gz.sha256	2019-08-26 20:20	95	

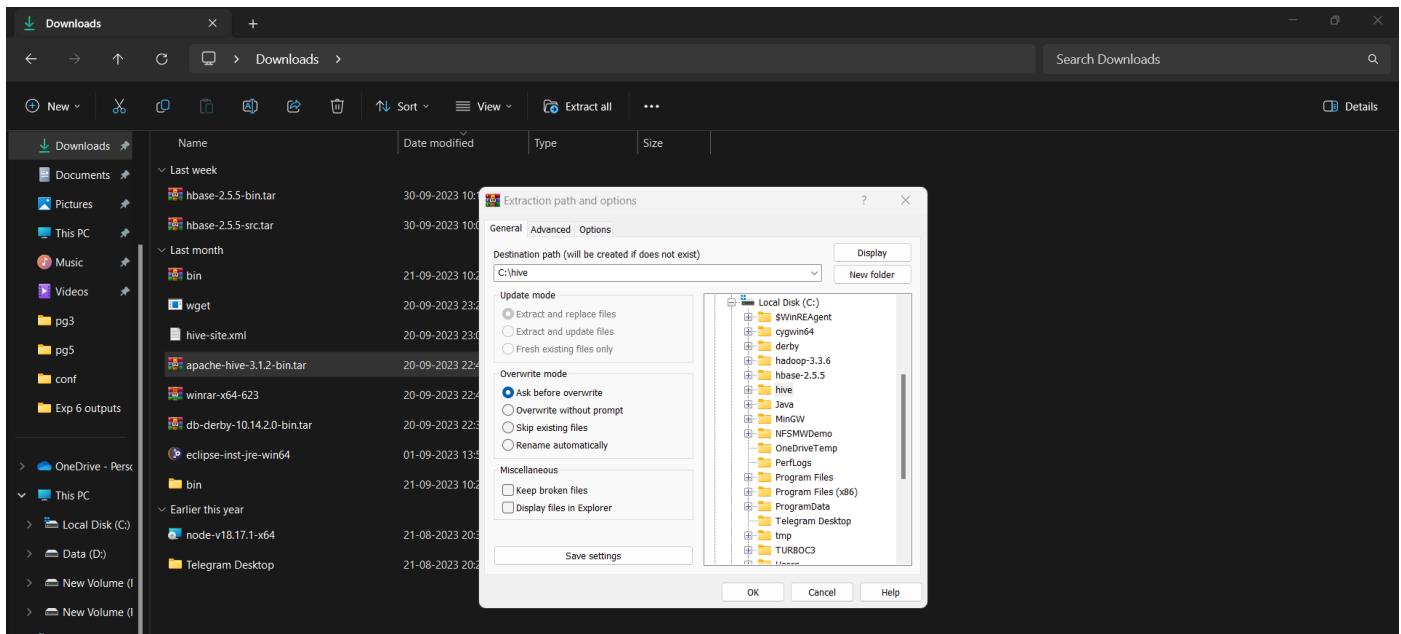
STEP 3: Create two new folders with name **Hive** and **Derby** in C: folder



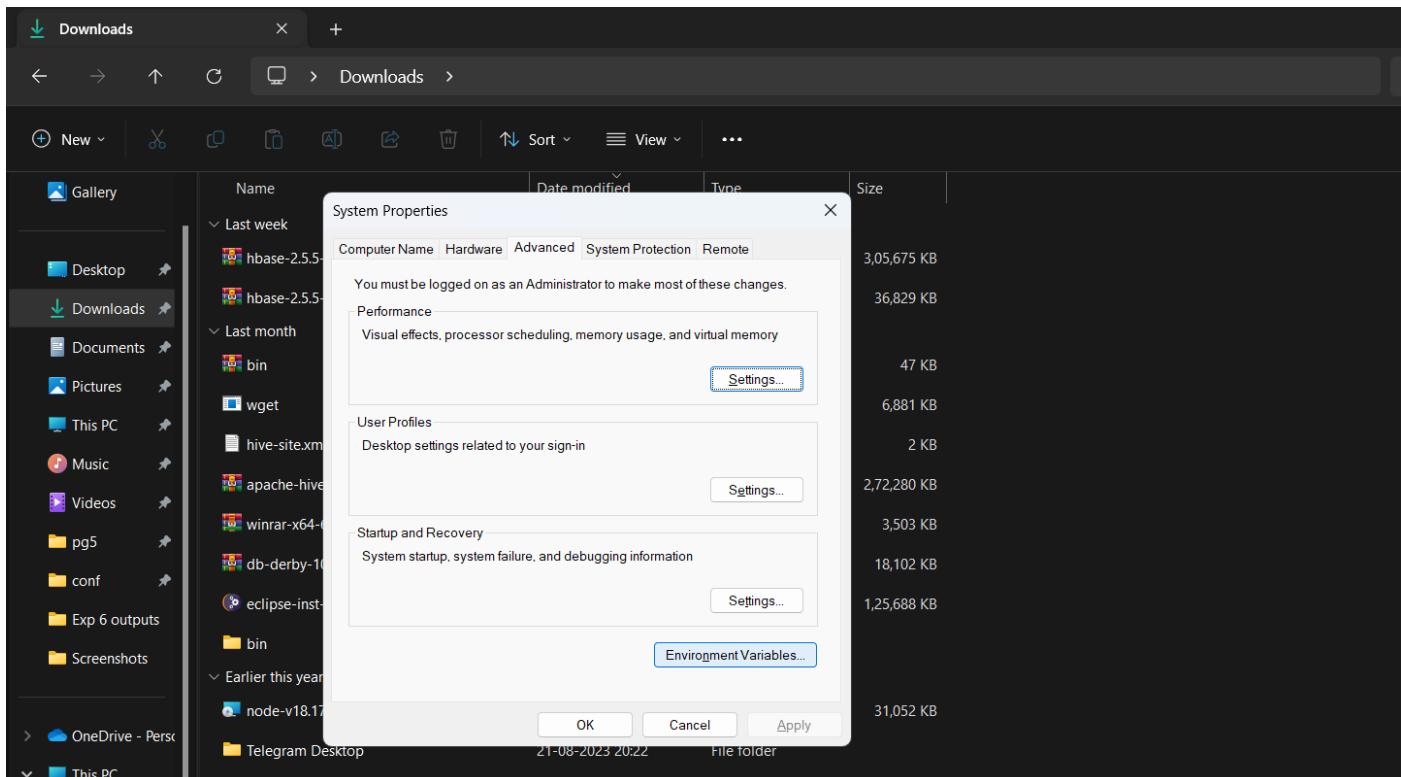
STEP 4: Extract the downloaded Derby file to newly created Derby folder in C: directory



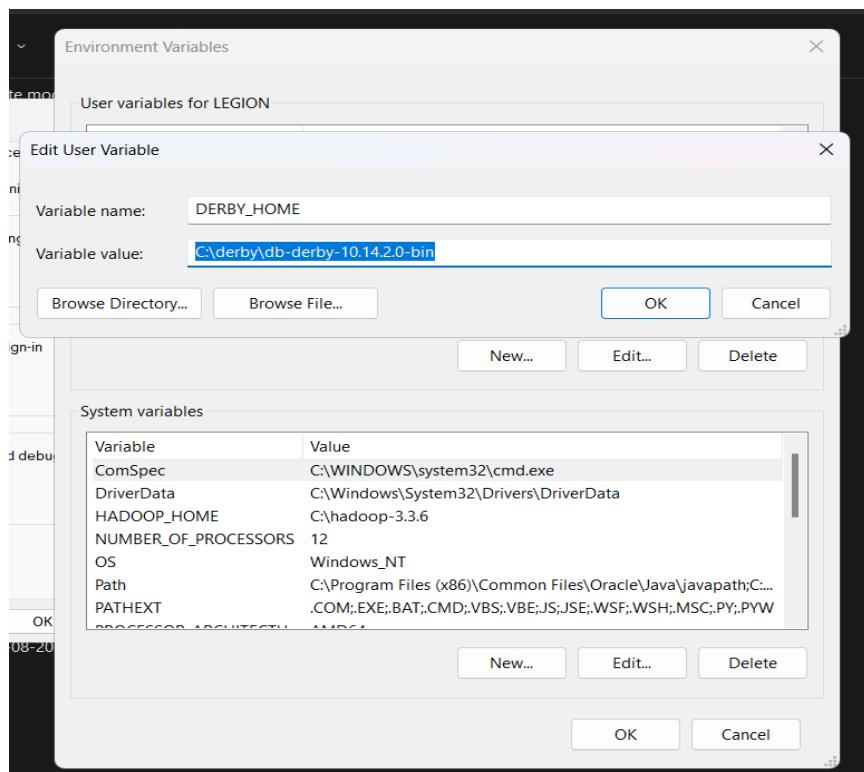
STEP 5: Extract the downloaded Hive file to newly created Hive folder in C: directory.



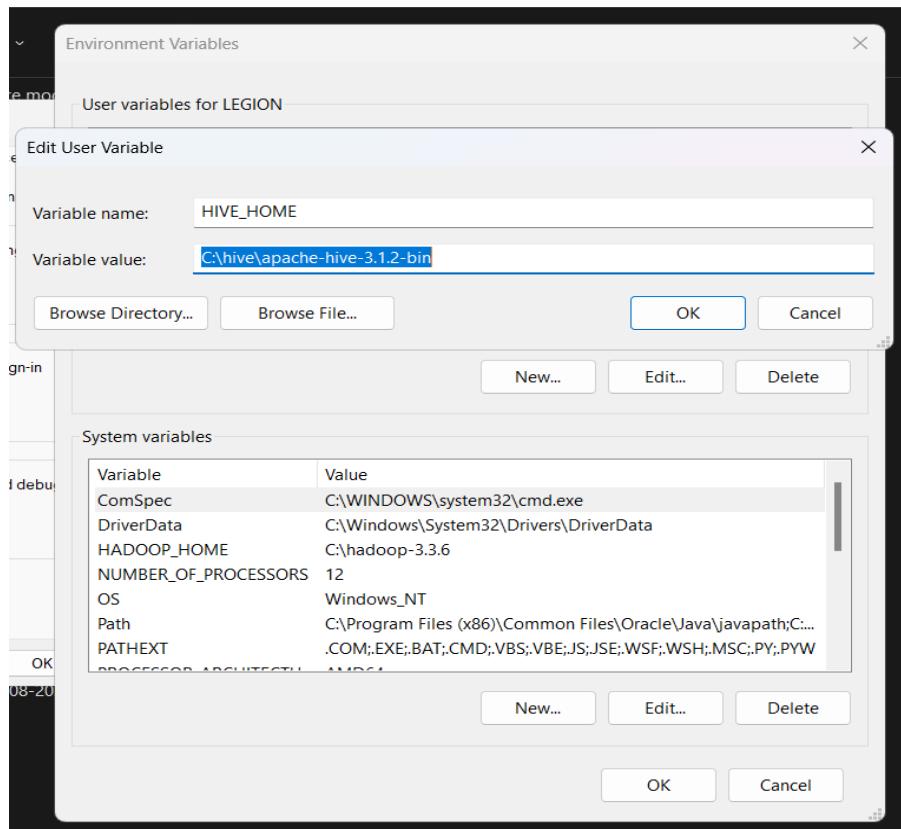
STEP 6: Now edit the Environment Variables.



**STEP 7: Create a new User Variable with Variable Name: DERBY_HOME
and with Variable Value: C:\derby\db-derby-10.14.2.0-bin**

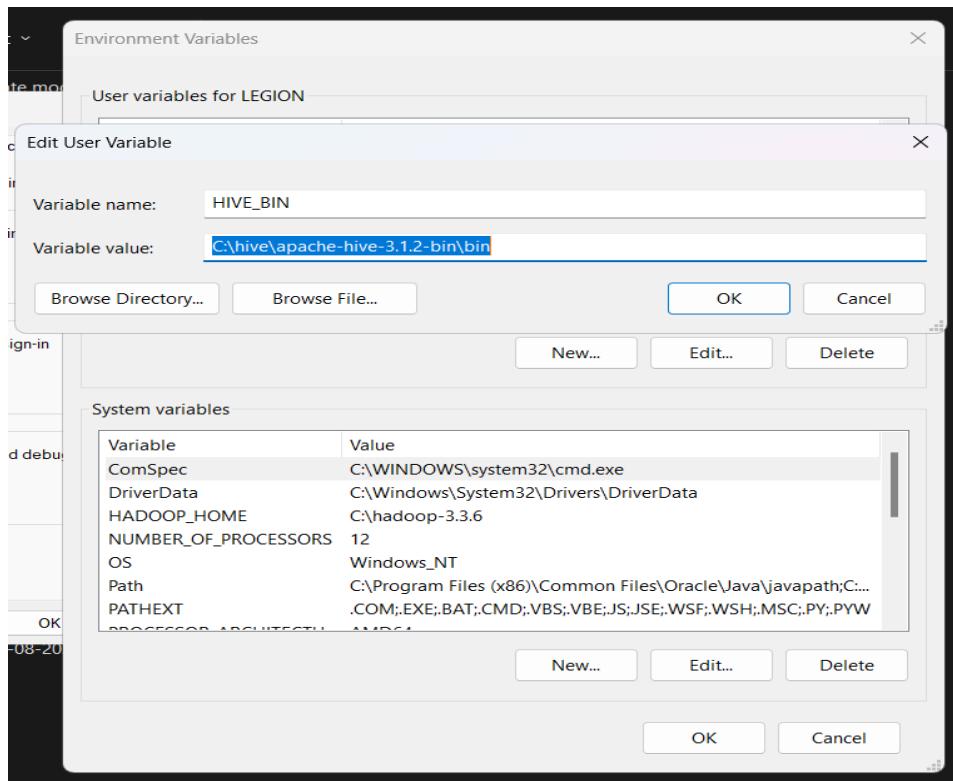


**STEP 8: Create a new User Variable with Variable Name: HIVE_HOME
and with Variable Value: C:\hive\apache-hive-3.1.2-bin**



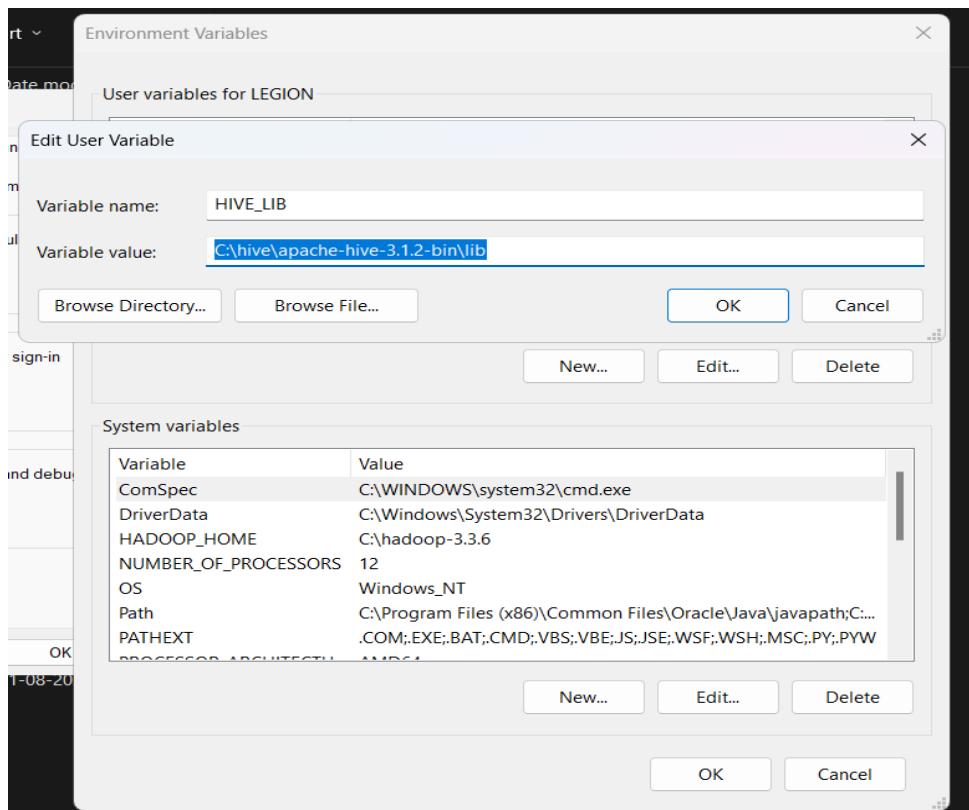
STEP 9: Create a new User Variable with Variable Name: HIVE_BIN

and with Variable Value: C:\hive\apache-hive-3.1.2-bin\bin



STEP 10: Create a new User Variable with Variable Name: HIVE_LIB

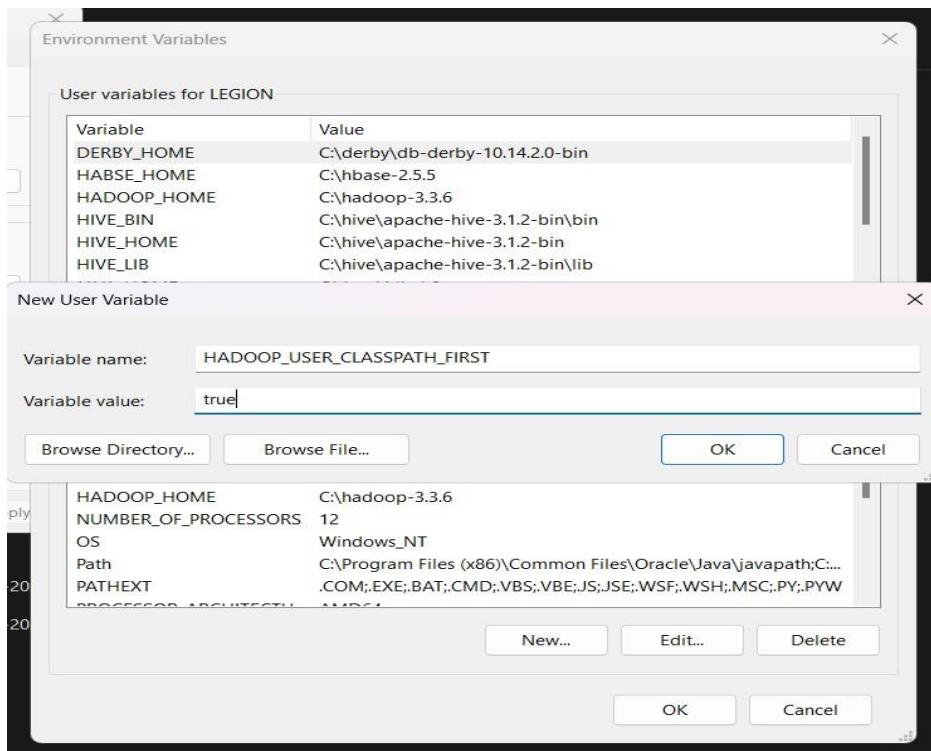
and with Variable Value: C:\hive\apache-hive-3.1.2-bin\lib



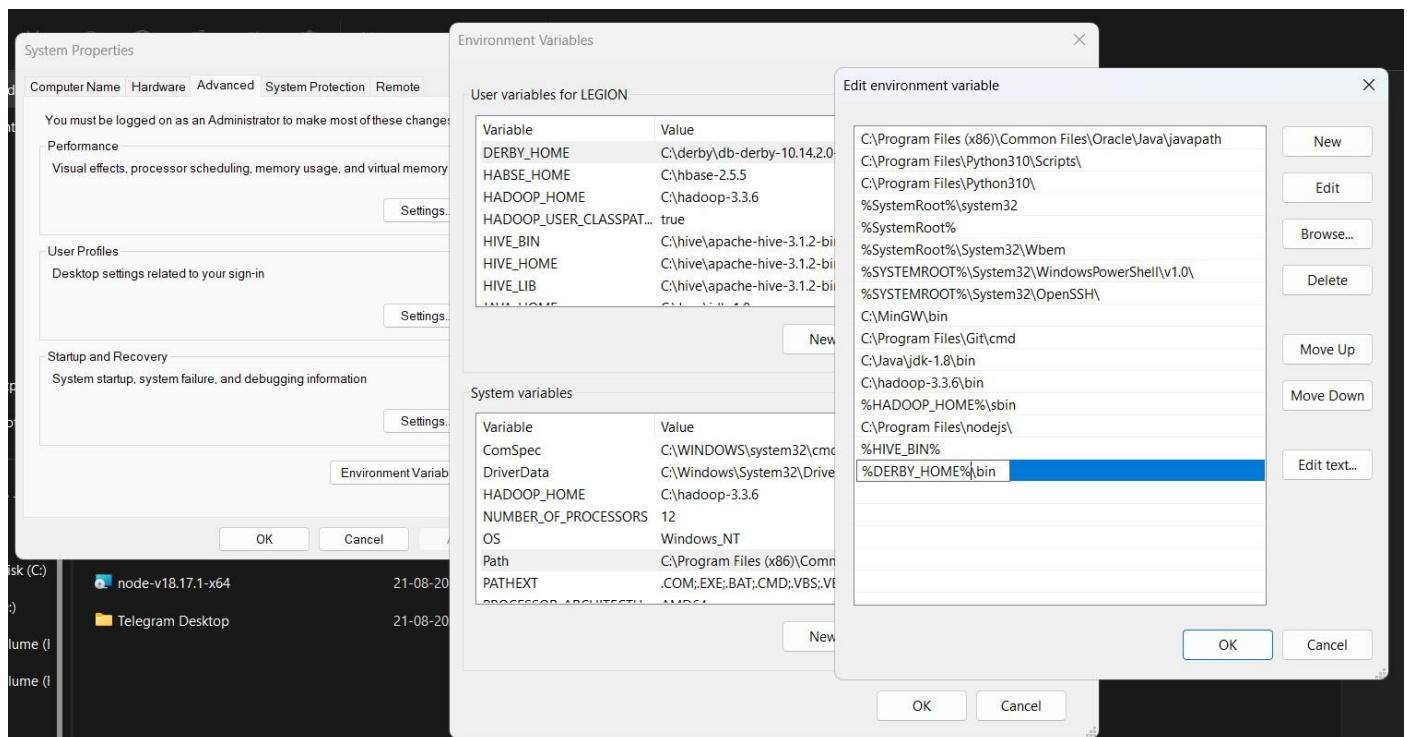
STEP 11: Create a new User Variable with

Variable Name: HADOOP_USER_CLASSPATH_FIRST and with

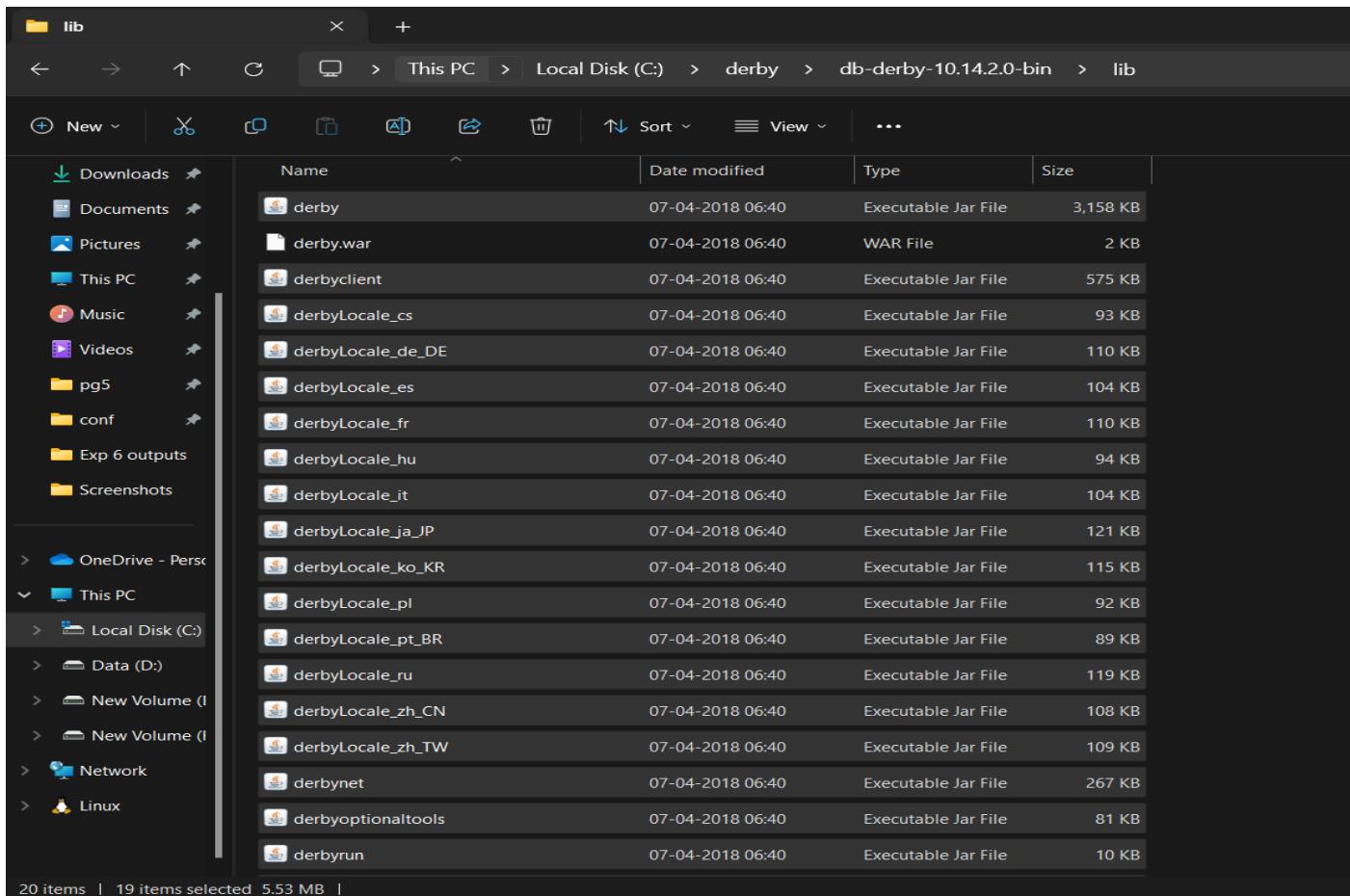
Variable Value: true



STEP 12: Add %HIVE_BIN% and %DERBY_HOME%\bin to the Path of the System Variables.

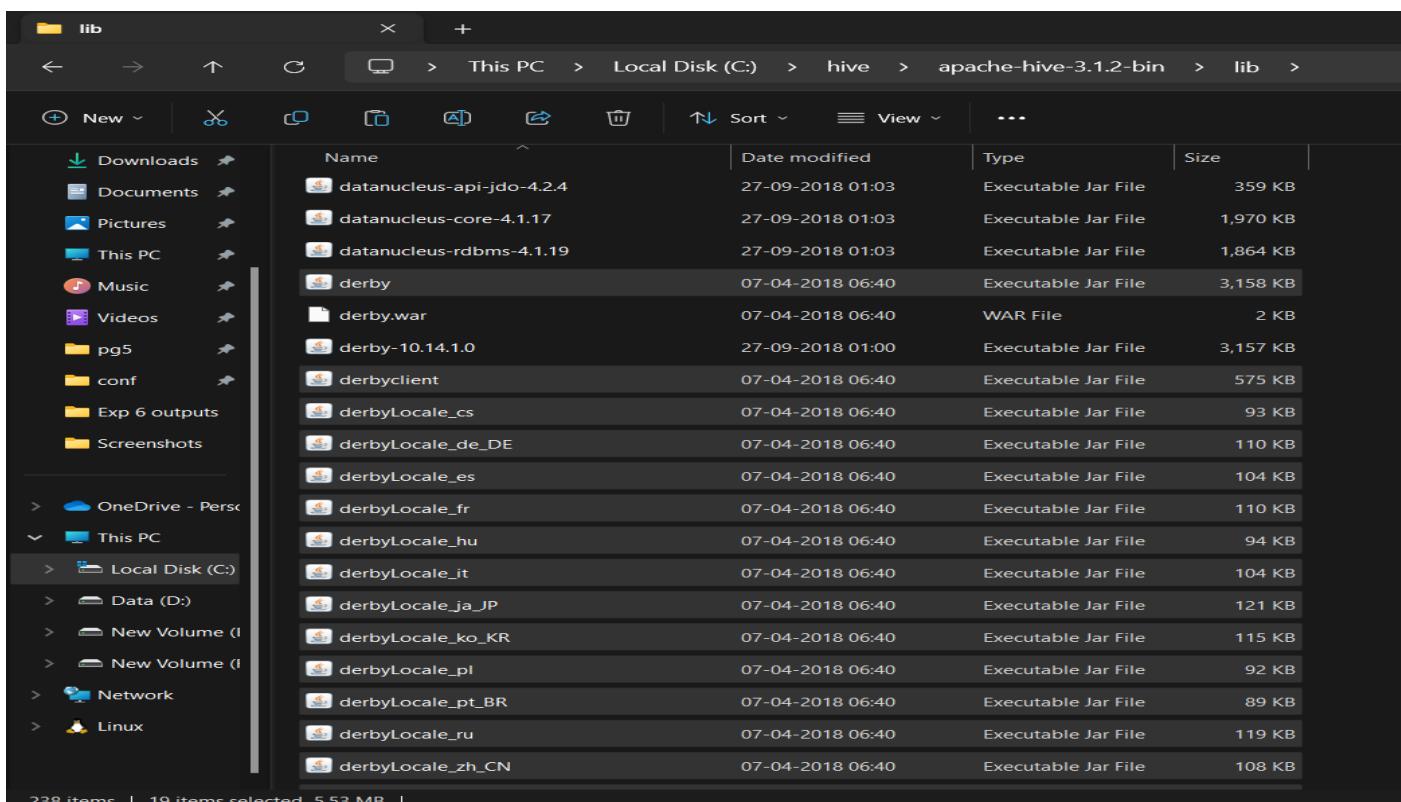


STEP 13: Copy all the **JAR Files** located in **lib** folder in **Derby** folder.



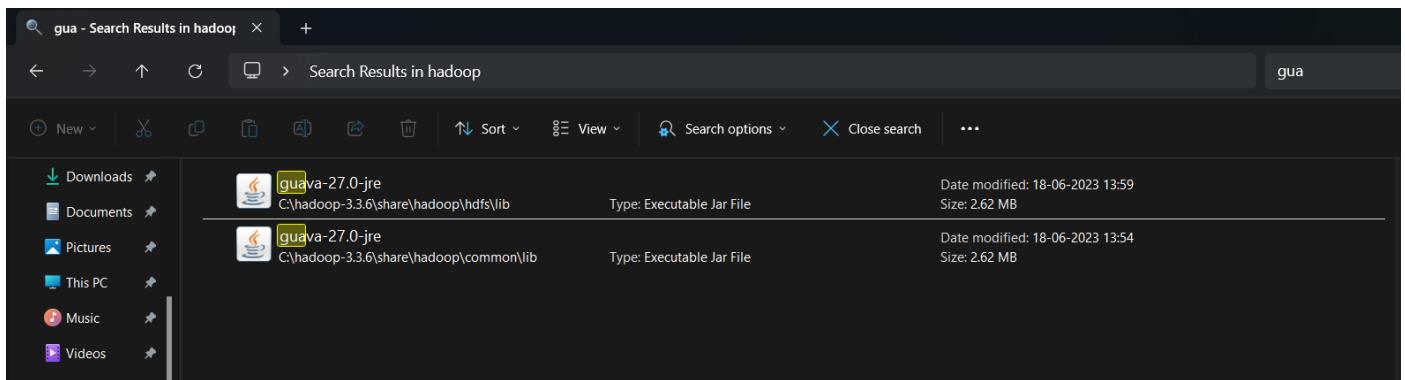
Name	Date modified	Type	Size
derby	07-04-2018 06:40	Executable Jar File	3,158 KB
derby.war	07-04-2018 06:40	WAR File	2 KB
derbyclient	07-04-2018 06:40	Executable Jar File	575 KB
derbyLocale_cs	07-04-2018 06:40	Executable Jar File	93 KB
derbyLocale_de_DE	07-04-2018 06:40	Executable Jar File	110 KB
derbyLocale_es	07-04-2018 06:40	Executable Jar File	104 KB
derbyLocale_fr	07-04-2018 06:40	Executable Jar File	110 KB
derbyLocale_hu	07-04-2018 06:40	Executable Jar File	94 KB
derbyLocale_it	07-04-2018 06:40	Executable Jar File	104 KB
derbyLocale_ja_JP	07-04-2018 06:40	Executable Jar File	121 KB
derbyLocale_ko_KR	07-04-2018 06:40	Executable Jar File	115 KB
derbyLocale_pl	07-04-2018 06:40	Executable Jar File	92 KB
derbyLocale_pt_BR	07-04-2018 06:40	Executable Jar File	89 KB
derbyLocale_ru	07-04-2018 06:40	Executable Jar File	119 KB
derbyLocale_zh_CN	07-04-2018 06:40	Executable Jar File	108 KB
derbyLocale_zh_TW	07-04-2018 06:40	Executable Jar File	109 KB
derbyn	07-04-2018 06:40	Executable Jar File	267 KB
derbyoptionaltools	07-04-2018 06:40	Executable Jar File	81 KB
derbyrun	07-04-2018 06:40	Executable Jar File	10 KB

STEP 14: Paste all the **JAR Files** in **lib** folder of **Hive** folder.

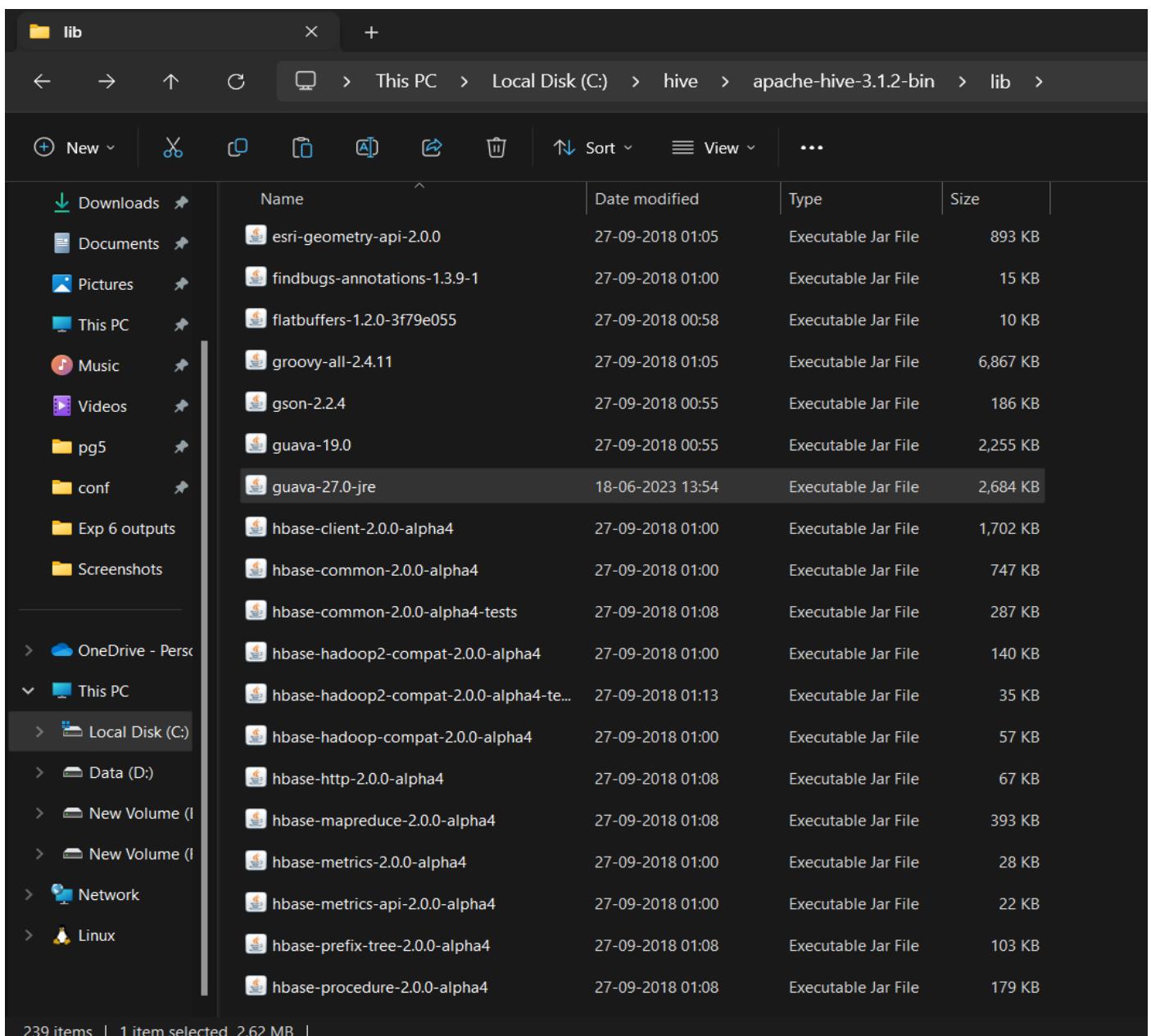


Name	Date modified	Type	Size
datanucleus-api-jdo-4.2.4	27-09-2018 01:03	Executable Jar File	359 KB
datanucleus-core-4.1.17	27-09-2018 01:03	Executable Jar File	1,970 KB
datanucleus-rdbms-4.1.19	27-09-2018 01:03	Executable Jar File	1,864 KB
derby	07-04-2018 06:40	Executable Jar File	3,158 KB
derby.war	07-04-2018 06:40	WAR File	2 KB
derby-10.14.1.0	27-09-2018 01:00	Executable Jar File	3,157 KB
derbyclient	07-04-2018 06:40	Executable Jar File	575 KB
derbyLocale_cs	07-04-2018 06:40	Executable Jar File	93 KB
derbyLocale_de_DE	07-04-2018 06:40	Executable Jar File	110 KB
derbyLocale_es	07-04-2018 06:40	Executable Jar File	104 KB
derbyLocale_fr	07-04-2018 06:40	Executable Jar File	110 KB
derbyLocale_hu	07-04-2018 06:40	Executable Jar File	94 KB
derbyLocale_it	07-04-2018 06:40	Executable Jar File	104 KB
derbyLocale_ja_JP	07-04-2018 06:40	Executable Jar File	121 KB
derbyLocale_ko_KR	07-04-2018 06:40	Executable Jar File	115 KB
derbyLocale_pl	07-04-2018 06:40	Executable Jar File	92 KB
derbyLocale_pt_BR	07-04-2018 06:40	Executable Jar File	89 KB
derbyLocale_ru	07-04-2018 06:40	Executable Jar File	119 KB
derbyLocale_zh_CN	07-04-2018 06:40	Executable Jar File	108 KB

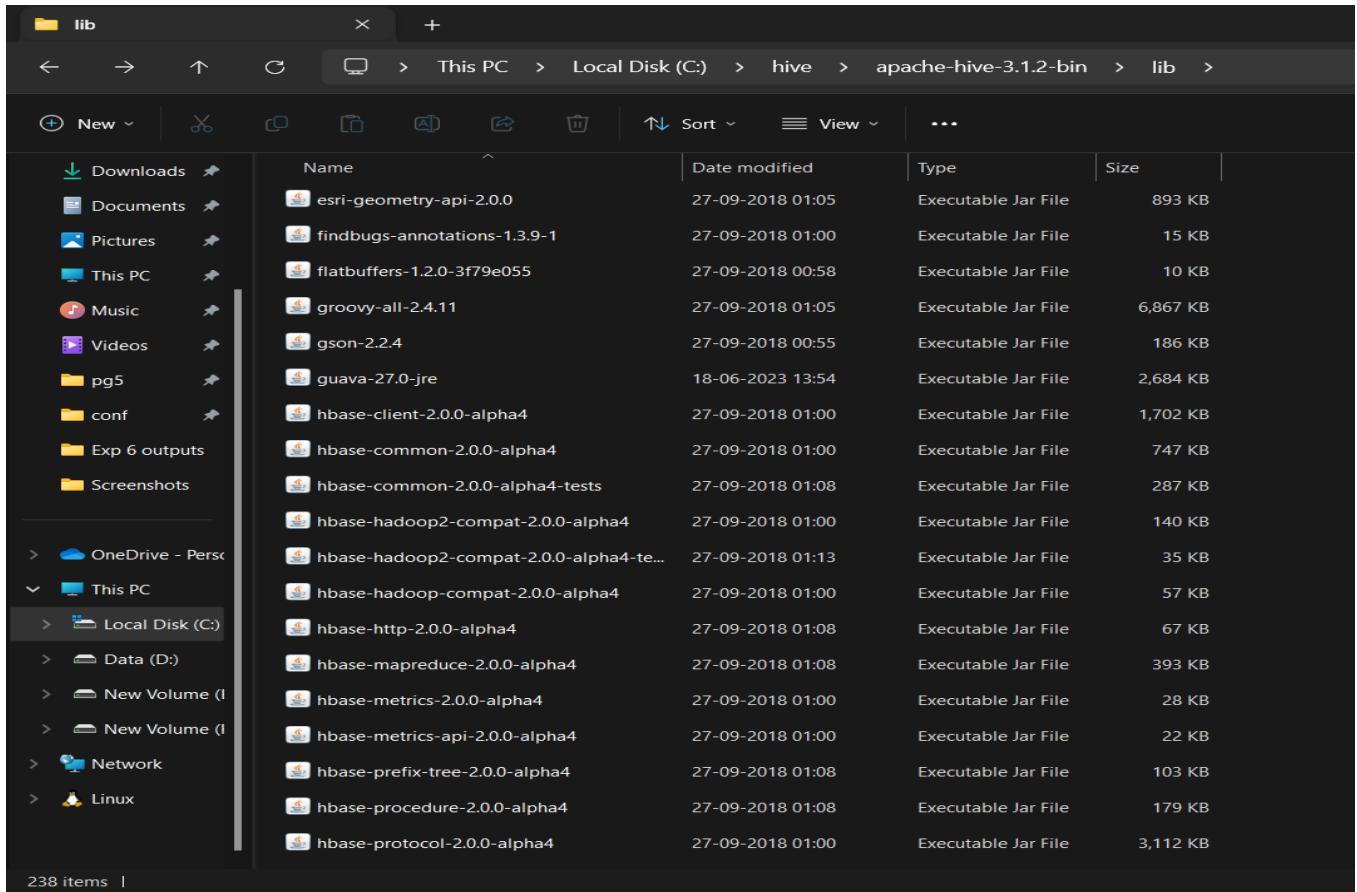
STEP 15: Go to the **Hadoop** folder. Go to **share**. Go to **Hadoop**. Search for **guava**. Copy the **guava-27.0-jre** file.



STEP 16: Go to **lib** folder of **Hive** folder and paste the **copied guava file**.

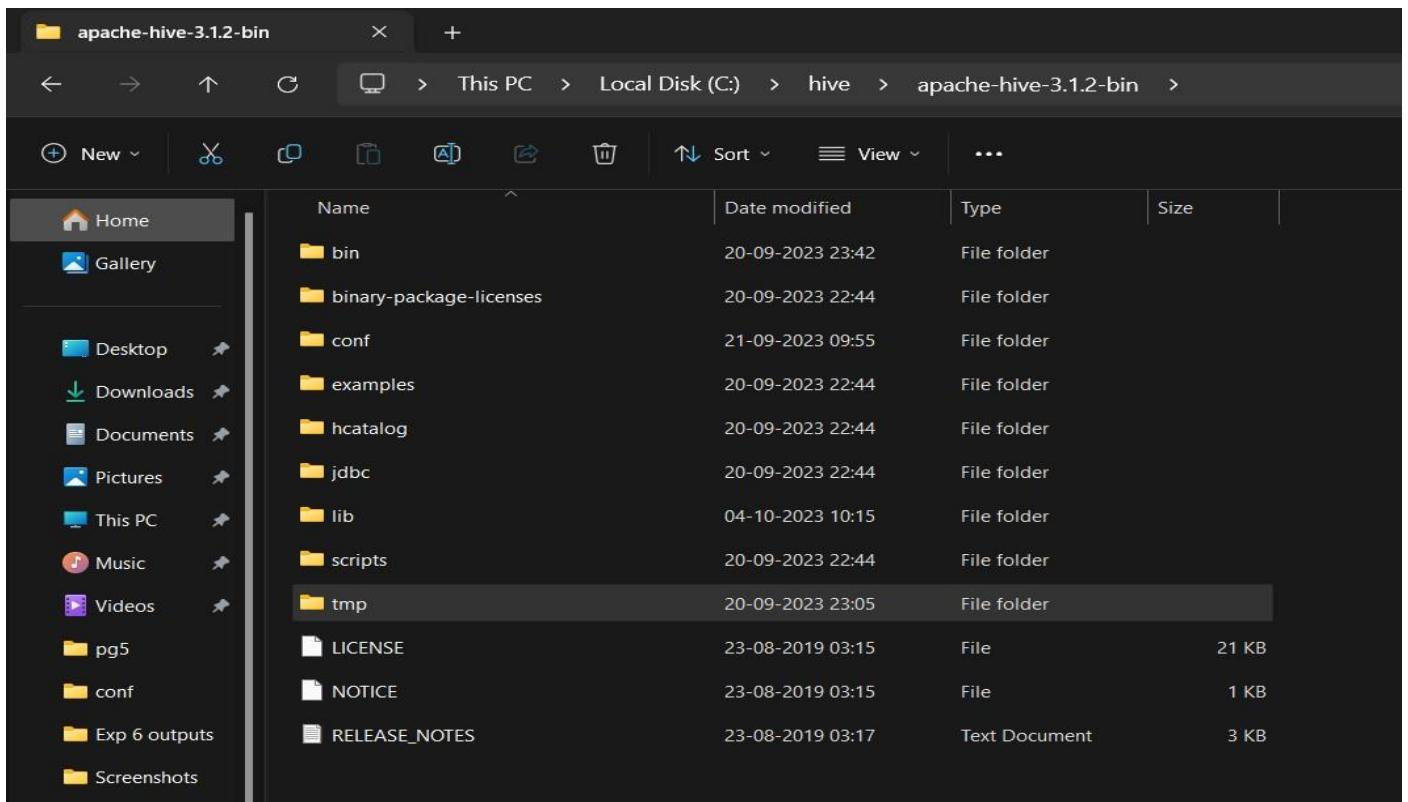


STEP 17: Delete the **older version guava file** already present in hive folder.



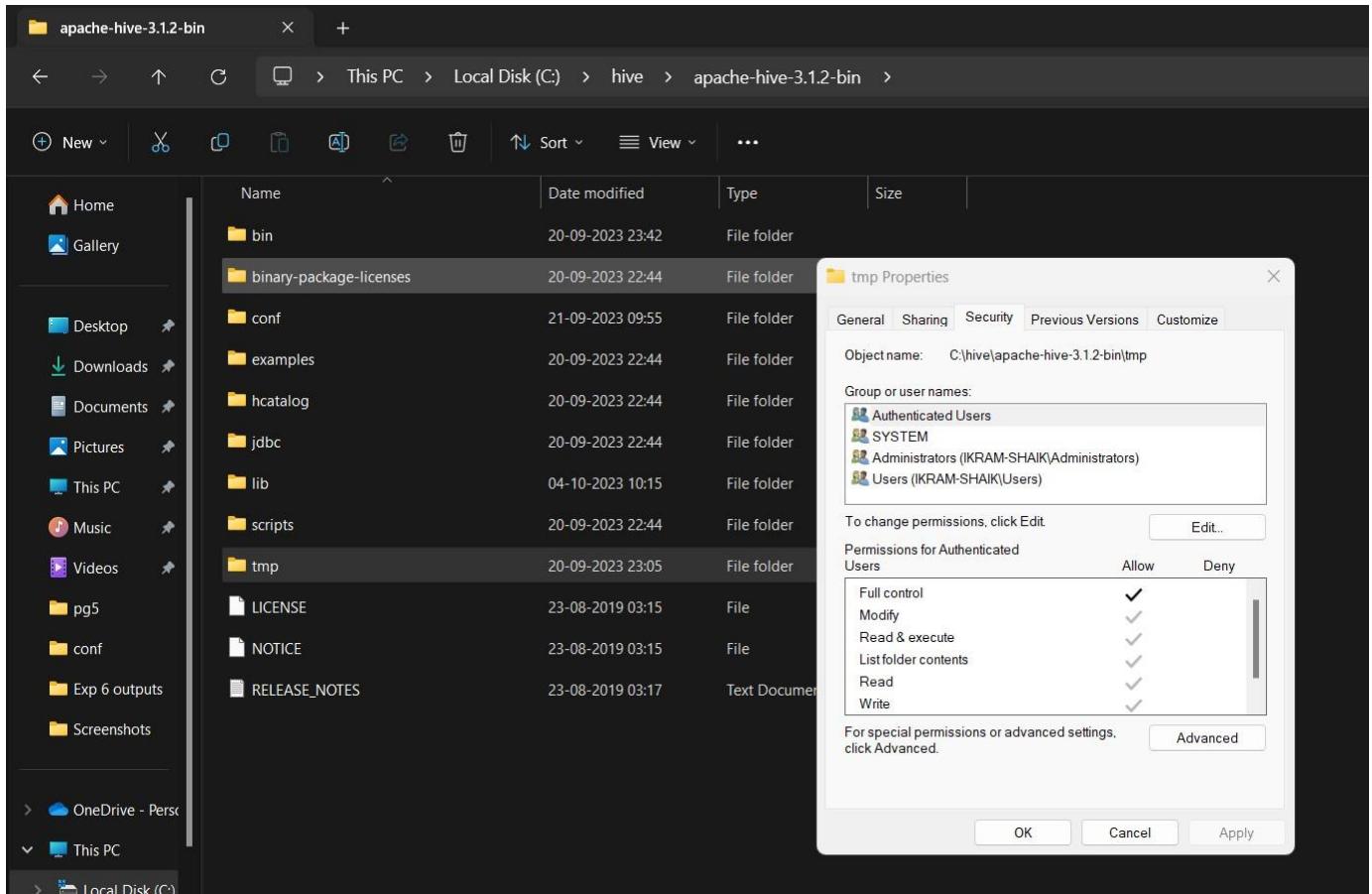
Name	Date modified	Type	Size
esri-geometry-api-2.0.0	27-09-2018 01:05	Executable Jar File	893 KB
findbugs-annotations-1.3.9-1	27-09-2018 01:00	Executable Jar File	15 KB
flatbuffers-1.2.0-3f79e055	27-09-2018 00:58	Executable Jar File	10 KB
groovy-all-2.4.11	27-09-2018 01:05	Executable Jar File	6,867 KB
gson-2.2.4	27-09-2018 00:55	Executable Jar File	186 KB
guava-27.0-jre	18-06-2023 13:54	Executable Jar File	2,684 KB
hbase-client-2.0.0-alpha4	27-09-2018 01:00	Executable Jar File	1,702 KB
hbase-common-2.0.0-alpha4	27-09-2018 01:00	Executable Jar File	747 KB
hbase-common-2.0.0-alpha4-tests	27-09-2018 01:08	Executable Jar File	287 KB
hbase-hadoop2-compat-2.0.0-alpha4	27-09-2018 01:00	Executable Jar File	140 KB
hbase-hadoop2-compat-2.0.0-alpha4-te...	27-09-2018 01:13	Executable Jar File	35 KB
hbase-hadoop-compat-2.0.0-alpha4	27-09-2018 01:00	Executable Jar File	57 KB
hbase-http-2.0.0-alpha4	27-09-2018 01:08	Executable Jar File	67 KB
hbase-mapreduce-2.0.0-alpha4	27-09-2018 01:08	Executable Jar File	393 KB
hbase-metrics-2.0.0-alpha4	27-09-2018 01:00	Executable Jar File	28 KB
hbase-metrics-api-2.0.0-alpha4	27-09-2018 01:00	Executable Jar File	22 KB
hbase-prefix-tree-2.0.0-alpha4	27-09-2018 01:08	Executable Jar File	103 KB
hbase-procedure-2.0.0-alpha4	27-09-2018 01:08	Executable Jar File	179 KB
hbase-protocol-2.0.0-alpha4	27-09-2018 01:00	Executable Jar File	3,112 KB

STEP 18: Create a **new folder** with name **tmp** in **Hive folder**.



Name	Date modified	Type	Size
bin	20-09-2023 23:42	File folder	
binary-package-licenses	20-09-2023 22:44	File folder	
conf	21-09-2023 09:55	File folder	
examples	20-09-2023 22:44	File folder	
hcatalog	20-09-2023 22:44	File folder	
jdbc	20-09-2023 22:44	File folder	
lib	04-10-2023 10:15	File folder	
scripts	20-09-2023 22:44	File folder	
tmp	20-09-2023 23:05	File folder	
LICENSE	23-08-2019 03:15	File	21 KB
NOTICE	23-08-2019 03:15	File	1 KB
RELEASE_NOTES	23-08-2019 03:17	Text Document	3 KB

STEP 19: Go to Security in Properties of tmp file and give all the permissions to the tmp file.



STEP 20: Go to conf folder of Hive and create a new file by name **hive-site.xml** and paste the following code given below.

PROGRAM (hive-site.xml):

```
<?xml version="1.0"?>
<?xml-stylesheet type="text/xsl" href="configuration.xsl"?>
<configuration><property> <name>javax.jdo.option.ConnectionURL</name>
<value>jdbc:derby://localhost:1527/metastore_db;create=true</value>
<description>JDBC connect string for a JDBC metastore</description>
</property>
<property>
  <name>system:java.io.tmpdir</name>
  <value>C:/hive/apache-hive-3.1.2-bin/tmp</value>
</property>
<property>
  <name>system:user.name</name>
```

```

<value>${user.name}</value>
</property>
<property>
<name>javax.jdo.option.ConnectionDriverName</name>
<value>org.apache.derby.jdbc.ClientDriver</value>
<description>Driver class name for a JDBC metastore</description>
</property>
<property>
<name>hive.server2.enable.doAs</name>
<description>Enable user impersonation for HiveServer2</description>
<value>true</value>
</property>
<property>
<name>hive.server2.authentication</name>
<value>NONE</value>
<description> Client authentication types. NONE: no authentication check LDAP: LDAP/AD based authentication KERBEROS: Kerberos/GSSAPI authentication CUSTOM: Custom authentication provider (Use with property hive.server2.custom.authentication.class)
</description>
</property>
<property>
<name>datanucleus.autoCreateTables</name>
<value>True</value>
</property>
</configuration>

```

STEP 21: The **bin** file in Hive folder is given for **Linux operating system**. We need to download **bin file** for **Windows operating system** from the official website of Hive.
<https://svn.apache.org/repos/asf/hive/trunk/bin/>

asf - Revision 1912434: /hive/trunk/bin

- ..
- [beeline](#)
- [beeline.cmd](#)
- [derbyserver.cmd](#)
- [ext/](#)
- [hive](#)
- [hive-config.cmd](#)
- [hive-config.sh](#)
- [hive.cmd](#)
- [hiveserver2](#)
- [init-hive-dfs.sh](#)
- [metatool](#)
- [schematool](#)

STEP 22: To install **bin** file for **Windows Operating system** we need to install **wget** from official website

<https://eternallybored.org/misc/wget/> according to your **system type**.

Version	x86	x64	ARM64	Notes
1.21.4	ZIP EXE	ZIP EXE	ZIP EXE	OpenSSL 3.1.0, ZLib 1.2.13, gpgme-1.20.0, pcre2 10.42, libpsl 0.21.2, c-ares 1.19.0, taskbar progressbar , Windows certificate store support , manual
1.21.3	ZIP EXE	ZIP EXE	ZIP EXE	OpenSSL 1.1.1m, ZLib 1.2.11, gpgme-1.17.1, pcre2 10.39, libpsl 0.21.1, c-ares 1.18.1, taskbar progressbar , Windows certificate store support , manual
1.21.2	ZIP EXE	ZIP EXE	-	-
1.21.1	ZIP EXE	ZIP EXE	-	-
1.20.3	ZIP EXE	ZIP EXE	-	-
1.20	ZIP EXE	ZIP EXE	-	-
1.19.4	ZIP EXE	ZIP EXE	-	-

STEP 23: After downloading the **wget** application place it in the **C:\Windows\System32**

System32					
This PC > Local Disk (C:) > Windows > System32 >					
		Name	Date modified	Type	Size
		WerFault	21-08-2023 18:58	Application	610 KB
		WerFaultSecure	21-08-2023 18:58	Application	212 KB
		wermgr	21-08-2023 18:58	Application	258 KB
		wersvc.dll	21-08-2023 18:58	Application extens...	300 KB
		werui.dll	07-05-2022 10:50	Application extens...	232 KB
		wevtapi.dll	19-09-2023 20:40	Application extens...	393 KB
		wevtfwd.dll	19-09-2023 20:42	Application extens...	164 KB
		wevtsvc.dll	19-09-2023 20:40	Application extens...	1,308 KB
		wevutil	19-09-2023 20:40	Application	320 KB
		wextract	07-05-2022 10:50	Application	160 KB
		WF	07-05-2022 10:49	Microsoft Commo...	113 KB
		wfapigp.dll	19-09-2023 20:40	Application extens...	48 KB
		wfdprov.dll	09-07-2023 10:15	Application extens...	64 KB
		WFDSConMgr.dll	14-12-2022 21:07	Application extens...	92 KB
		WFDSConMgrSvc.dll	28-03-2023 18:30	Application extens...	652 KB
		WfHC.dll	07-05-2022 10:50	Application extens...	100 KB
		WFS	18-03-2023 07:43	Application	964 KB
		WFSSR.dll	25-02-2023 16:44	Application extens...	664 KB
		wget	20-09-2023 23:27	Application	6,881 KB

STEP 24: Open Command Prompt and run it as Administrator and run the following command

```
wget -r -np -nH --cut-dirs=3 -R index.html https://svn.apache.org/repos/asf/hive/trunk/bin/
```

```
Administrator: Command Pro + 
Microsoft Windows [Version 10.0.22631.2338]
(c) Microsoft Corporation. All rights reserved.

C:\Users\LEGION>wget -r -np -nH --cut-dirs=3 -R index.html https://svn.apache.org/repos/asf/hive/trunk/bin/
--2023-10-04 10:36:31-- https://svn.apache.org/repos/asf/hive/trunk/bin/
Resolving svn.apache.org (svn.apache.org)... 13.90.137.153
Connecting to svn.apache.org (svn.apache.org)|13.90.137.153|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 760 [text/html]
Saving to: 'trunk/bin/index.html.tmp'

trunk/bin/index.html.tmp      100%[=====] 760 --.-KB/s   in 0s
2023-10-04 10:36:32 (242 MB/s) - 'trunk/bin/index.html.tmp' saved [760/760]

Loading robots.txt; please ignore errors.
--2023-10-04 10:36:32-- https://svn.apache.org/robots.txt
Reusing existing connection to svn.apache.org:443.
HTTP request sent, awaiting response... 200 OK
Length: 165 [text/plain]
Saving to: 'robots.txt'

robots.txt      100%[=====] 165 --.-KB/s   in 0s
2023-10-04 10:36:32 (40.3 MB/s) - 'robots.txt' saved [165/165]

--2023-10-04 10:36:32-- https://svn.apache.org/repos/asf/hive/trunk/bin/beeline
Reusing existing connection to svn.apache.org:443.
HTTP request sent, awaiting response... 200 OK
Length: 1031 (1.0K) [text/plain]
Saving to: 'trunk/bin/beeline'

trunk/bin/beeline      100%[=====] 1.01K --.-KB/s   in 0s
2023-10-04 10:36:32 (273 MB/s) - 'trunk/bin/beeline' saved [1031/1031]

--2023-10-04 10:36:32-- https://svn.apache.org/repos/asf/hive/trunk/bin/beeline.cmd
Reusing existing connection to svn.apache.org:443.
HTTP request sent, awaiting response... 200 OK
Length: 2394 (2.3K) [text/plain]
```

```
Administrator: Command Pro + 
trunk/bin/ext/util/index.html.tmp      100%[=====] 320 --.-KB/s   in 0s
2023-10-04 10:36:43 (122 MB/s) - 'trunk/bin/ext/util/index.html.tmp' saved [320/320]

--2023-10-04 10:36:43-- https://svn.apache.org/repos/asf/hive/trunk/bin/ext/version.sh
Reusing existing connection to svn.apache.org:443.
HTTP request sent, awaiting response... 200 OK
Length: 1266 (1.2K) [text/x-sh]
Saving to: 'trunk/bin/ext/version.sh'

trunk/bin/ext/version.sh      100%[=====] 1.24K --.-KB/s   in 0s
2023-10-04 10:36:44 (335 MB/s) - 'trunk/bin/ext/version.sh' saved [1266/1266]

--2023-10-04 10:36:44-- https://svn.apache.org/repos/asf/hive/trunk/bin/ext/util/execHiveCmd.cmd
Reusing existing connection to svn.apache.org:443.
HTTP request sent, awaiting response... 200 OK
Length: 1078 (1.1K) [text/plain]
Saving to: 'trunk/bin/ext/util/execHiveCmd.cmd'

trunk/bin/ext/util/execHiveCmd.cmd      100%[=====] 1.05K --.-KB/s   in 0s
2023-10-04 10:36:44 (184 MB/s) - 'trunk/bin/ext/util/execHiveCmd.cmd' saved [1078/1078]

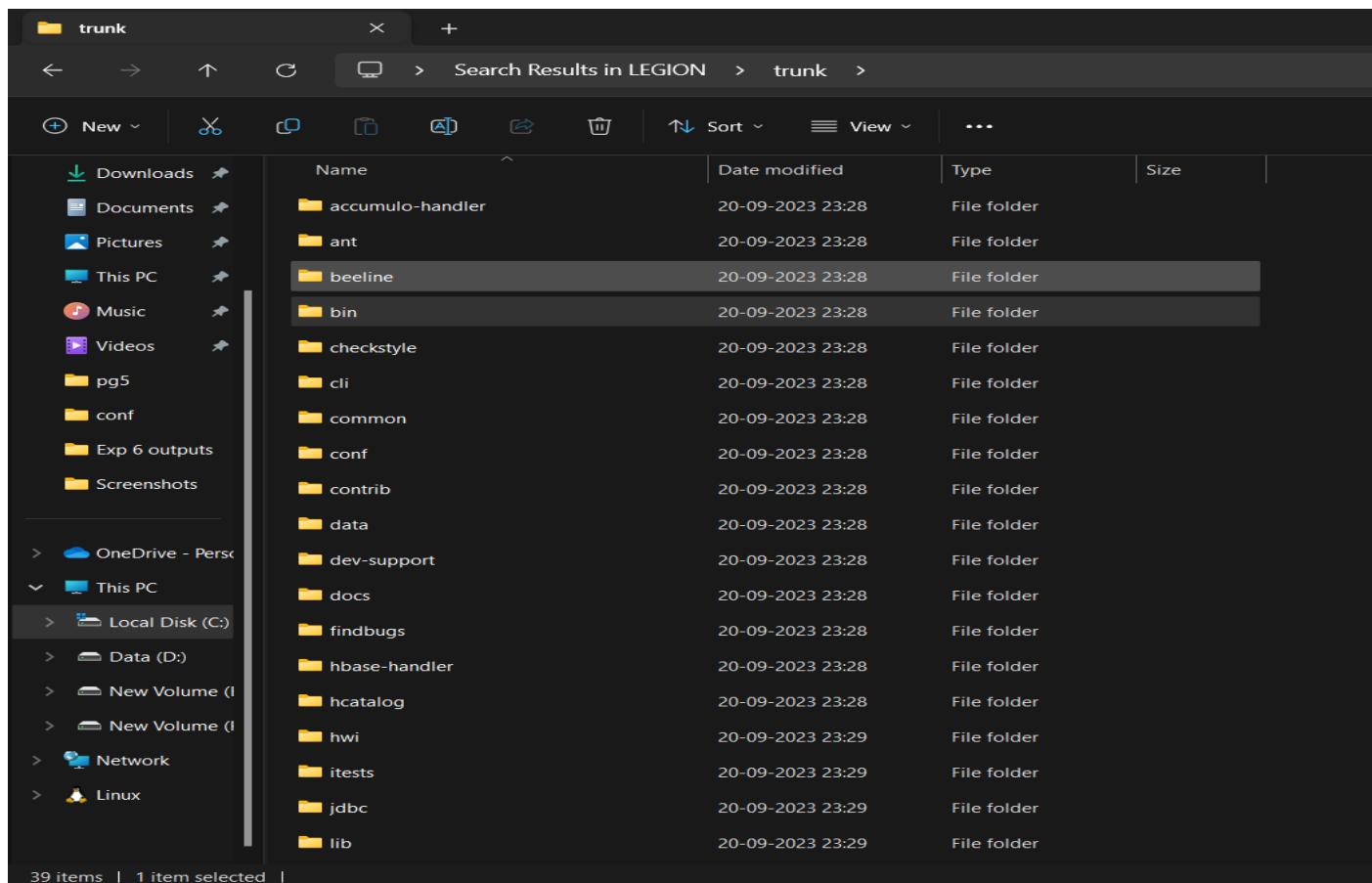
--2023-10-04 10:36:44-- https://svn.apache.org/repos/asf/hive/trunk/bin/ext/util/execHiveCmd.sh
Reusing existing connection to svn.apache.org:443.
HTTP request sent, awaiting response... 200 OK
Length: 1149 (1.1K) [text/x-sh]
Saving to: 'trunk/bin/ext/util/execHiveCmd.sh'

trunk/bin/ext/util/execHiveCmd.sh      100%[=====] 1.12K --.-KB/s   in 0s
2023-10-04 10:36:44 (219 MB/s) - 'trunk/bin/ext/util/execHiveCmd.sh' saved [1149/1149]

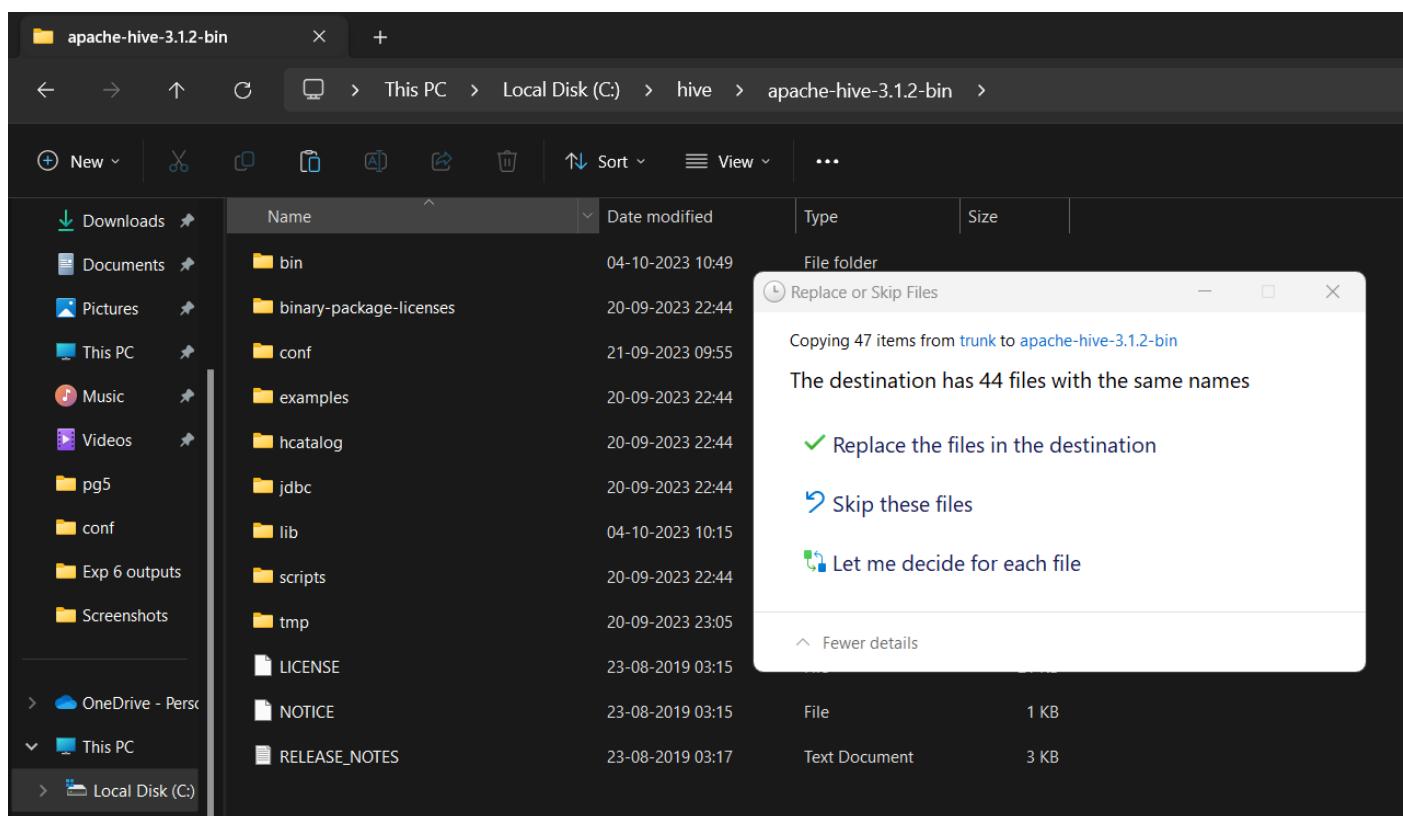
FINISHED --2023-10-04 10:36:44--
Total wall clock time: 14s
Downloaded: 45 files, 76K in 0.001s (148 MB/s)

C:\Users\LEGION>
```

STEP 26: After downloading search for the bin file and **copy** the bin file.



STEP 27: Replace this **bin** file with the bin file present in the **Hive** directory.



STEP 28: The replaced bin file consists of Windows Community files which not present in the old bin file.

Name	Date modified	Type	Size
ext	04-10-2023 10:49	File folder	
beeline	09-04-2015 23:55	File	2 KB
beeline	22-09-2014 06:34	Windows Comma...	3 KB
derbyserver	01-05-2014 06:27	Windows Comma...	2 KB
hive	05-03-2015 15:56	File	8 KB
hive	06-10-2014 23:12	Windows Comma...	9 KB
hive-config	01-05-2014 06:27	Windows Comma...	2 KB
hive-config.sh	17-03-2012 03:51	sh_auto_file	2 KB
hiveserver2	12-03-2013 23:52	File	1 KB
hqlsql	23-08-2019 03:14	File	1 KB
index.html.tmp	09-04-2015 23:55	TMP File	1 KB
init-hive-dfs.sh	11-05-2012 03:00	sh_auto_file	3 KB
metatool	04-09-2012 14:52	File	1 KB
schematool	25-09-2013 13:27	File	1 KB

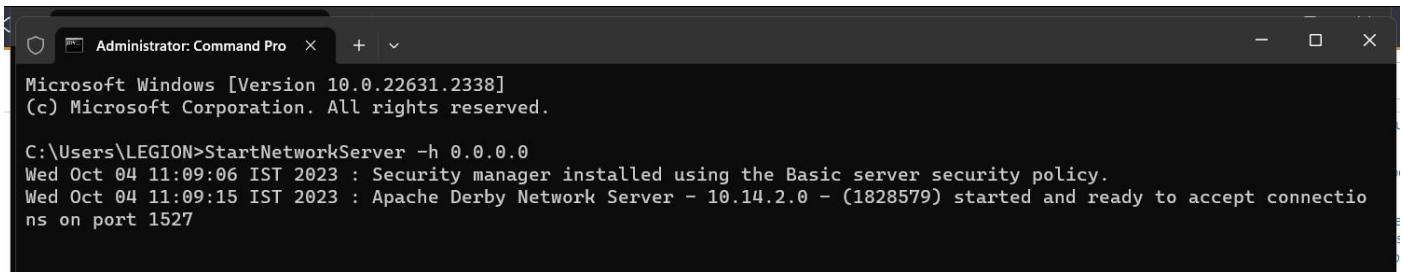
STEP 30: Run Command Prompt as Administrator and run all the demons of Hadoop.

```
[-checkpoint] |
[-format [-clusterid cid] [-force] [-nonInteractive] ] |
[-upgrade [-clusterid cid] [-renameReserved<k-v pairs>] ] |
[-upgradeOnly [-clusterid cid] [-renameReserved<k-v pairs>] ] |
[-rollback] |
[-rollingUpgrade <rollback|started> ] |
[-importCheckpoint] |
[-initializeSharedEdits] |
[-bootstrapStandby [-force] [-nonInteractive] [-skipSharedEditsCheck] ] |
[-recover [-force] ] |
[-metadataVersion ]

2023-10-04 11:01:11,817 INFO namenode.NameNode: SHUTDOWN_MSG:
*****SHUTDOWN_MSG: Shutting down NameNode at Ikram-Shaik/192.168.137.1*****
C:\Users\LEGION>cd C:\hadoop-3.3.6\sbin
C:\hadoop-3.3.6\sbin>start-all.cmd
This script is Deprecated. Instead use start-dfs.cmd and start-yarn.cmd
starting yarn daemons
C:\hadoop-3.3.6\sbin>jps
12240 NodeManager
24040 Jps
328 DataNode
8812 ResourceManager
C:\hadoop-3.3.6\sbin>
```

STEP 31: Open new command prompt and run the following command

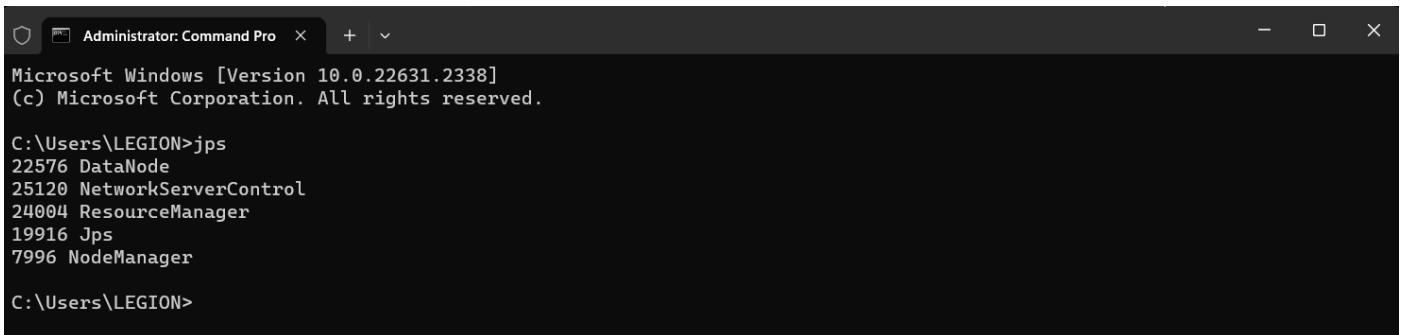
StartNewtowrkServer -h 0.0.0.0



```
Administrator: Command Pro
Microsoft Windows [Version 10.0.22631.2338]
(c) Microsoft Corporation. All rights reserved.

C:\Users\LEGION>StartNetworkServer -h 0.0.0.0
Wed Oct 04 11:09:06 IST 2023 : Security manager installed using the Basic server security policy.
Wed Oct 04 11:09:15 IST 2023 : Apache Derby Network Server - 10.14.2.0 - (1828579) started and ready to accept connections on port 1527
```

STEP 31: Check whether NetworkServerControl is running or not by using **jps** command.

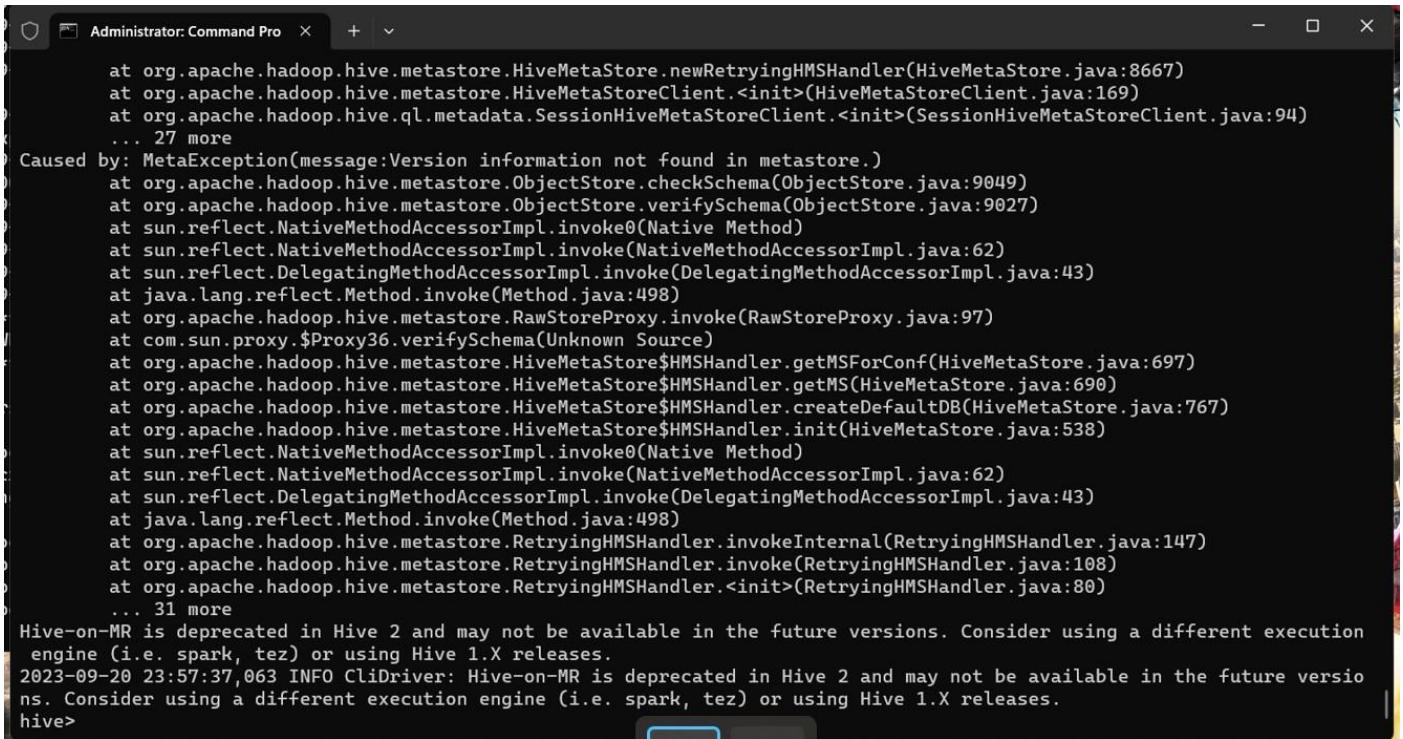


```
Administrator: Command Pro
Microsoft Windows [Version 10.0.22631.2338]
(c) Microsoft Corporation. All rights reserved.

C:\Users\LEGION>jps
22576 DataNode
25120 NetworkServerControl
24004 ResourceManager
19916 Jps
7996 NodeManager

C:\Users\LEGION>
```

STEP 32: In a new **Command Prompt** run **hive** command.



```
Administrator: Command Pro
at org.apache.hadoop.hive.metastore.HiveMetaStore.newRetryingHMSHandler(HiveMetaStore.java:8667)
at org.apache.hadoop.hive.metastore.HiveMetaStoreClient.<init>(HiveMetaStoreClient.java:169)
at org.apache.hadoop.hive.ql.metadata.SessionHiveMetaStoreClient.<init>(SessionHiveMetaStoreClient.java:94)
... 27 more
Caused by: MetaException(message:Version information not found in metastore.)
at org.apache.hadoop.hive.metastore.ObjectStore.checkSchema(ObjectStore.java:9049)
at org.apache.hadoop.hive.metastore.ObjectStore.verifySchema(ObjectStore.java:9027)
at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:62)
at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
at java.lang.reflect.Method.invoke(Method.java:498)
at org.apache.hadoop.hive.metastore.RawStoreProxy.invoke(RawStoreProxy.java:97)
at com.sun.proxy.$Proxy36.verifySchema(Unknown Source)
at org.apache.hadoop.hive.metastore.HiveMetaStore$HMSHandler.getMSForConf(HiveMetaStore.java:697)
at org.apache.hadoop.hive.metastore.HiveMetaStore$HMSHandler.getMS(HiveMetaStore.java:690)
at org.apache.hadoop.hive.metastore.HiveMetaStore$HMSHandler.createDefaultDB(HiveMetaStore.java:767)
at org.apache.hadoop.hive.metastore.HiveMetaStore$HMSHandler.init(HiveMetaStore.java:538)
at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:62)
at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
at java.lang.reflect.Method.invoke(Method.java:498)
at org.apache.hadoop.hive.metastore.RetryingHMSHandler.invokeInternal(RetryingHMSHandler.java:147)
at org.apache.hadoop.hive.metastore.RetryingHMSHandler.invoke(RetryingHMSHandler.java:108)
at org.apache.hadoop.hive.metastore.RetryingHMSHandler.<init>(RetryingHMSHandler.java:80)
... 31 more
Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution engine (i.e. spark, tez) or using Hive 1.X releases.
2023-09-20 23:57:37,063 INFO CliDriver: Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution engine (i.e. spark, tez) or using Hive 1.X releases.
hive>
```

RESULT: Installation of Apache Hive on a windows operating system is successfully completed and verified.