

EXP NO: 5

INSTALLATION OF HIVE

\$wget <https://archive.apache.org/dist/hive/hive-3.1.2/apache-hive-3.1.2-bin.tar.gz>

```
kali-linux-2023.4-vmware-amd64 - VMware Workstation 17 Player (Non-commercial use only)
Player
File Actions Edit View Help
[hadoop@kali: ~]$ wget https://archive.apache.org/dist/hive/hive-3.1.2/apache-hive-3.1.2-bin.tar.gz
--2024-09-10 08:48:34-- https://archive.apache.org/dist/hive/hive-3.1.2/apache-hive-3.1.2-bin.tar.gz
Resolving archive.apache.org (archive.apache.org)... 2401:49f9:1a:a08::2, 65.180.264.189
Connecting to archive.apache.org (archive.apache.org):2401:49f9:1a:a08::2|65.180.264.189... connected.
HTTP request sent, awaiting response... 200 OK
Length: 276813748 (260M) [application/x-gzip]
Saving to: 'apache-hive-3.1.2-bin.tar.gz'

apache-hive-3.1.2-bin.tar.gz 100% [====>] 265.98M 1.67MB/s in 4m 21s

2024-09-10 08:44:57 (1.02 MB/s) - 'apache-hive-3.1.2-bin.tar.gz' saved [276813748/276813748]
```

\$tar xvfz apache-hive-3.1.2-bin.tar.gz

```
[hadoop@kali: ~]$ tar xvfz apache-hive-3.1.2-bin.tar.gz
apache-hive-3.1.2-bin/LICENSE
apache-hive-3.1.2-bin/NOTICE
apache-hive-3.1.2-bin/RELEASE_NOTES.txt
apache-hive-3.1.2-bin/binary-package/licenses/asm-LICENSE
apache-hive-3.1.2-bin/binary-package/licenses/com.google.protobuf-LICENSE
apache-hive-3.1.2-bin/binary-package/licenses/com.ibm.icu.icu4j-LICENSE
apache-hive-3.1.2-bin/binary-package/licenses/com.sun.jersey-LICENSE
apache-hive-3.1.2-bin/binary-package/licenses/com.thoughtworks.paranamer-LICENSE
apache-hive-3.1.2-bin/binary-package/licenses/java.transaction.transaction-api-LICENSE
apache-hive-3.1.2-bin/binary-package/licenses/javolution-LICENSE
apache-hive-3.1.2-bin/binary-package/licenses/jline-LICENSE
apache-hive-3.1.2-bin/binary-package/licenses/NOTICE
apache-hive-3.1.2-bin/binary-package/licenses/org.abego.treelayout.core-LICENSE
apache-hive-3.1.2-bin/binary-package/licenses/organtlr/antlr4-LICENSE
apache-hive-3.1.2-bin/binary-package/licenses/organtlr/stringtemplate-LICENSE
apache-hive-3.1.2-bin/binary-package/licenses/org.codehaus.janino-LICENSE
apache-hive-3.1.2-bin/binary-package/licenses/org.jamon.jamon-runtime-LICENSE
apache-hive-3.1.2-bin/binary-package/licenses/org.jruby-LICENSE
apache-hive-3.1.2-bin/binary-package/licenses/org.mozilla.rhino-LICENSE
apache-hive-3.1.2-bin/binary-package/licenses/org.sifaj-LICENSE
apache-hive-3.1.2-bin/binary-package/licenses/sqlite-LICENSE
apache-hive-3.1.2-bin/examples/files/2000_colt_data.csv
apache-hive-3.1.2-bin/examples/files/3col_data.txt
apache-hive-3.1.2-bin/examples/files/4col_data.txt
apache-hive-3.1.2-bin/examples/files/agg_01-p1.txt
apache-hive-3.1.2-bin/examples/files/agg_01-p2.txt
apache-hive-3.1.2-bin/examples/files/agg_01-p3.txt
apache-hive-3.1.2-bin/examples/files/alltypes.txt
apache-hive-3.1.2-bin/examples/files/alltypes2.txt
apache-hive-3.1.2-bin/examples/files/apache.access.2.log
apache-hive-3.1.2-bin/examples/files/apache.access.log
apache-hive-3.1.2-bin/examples/files/archive_corrupt.rc
apache-hive-3.1.2-bin/examples/files/array_table.txt
apache-hive-3.1.2-bin/examples/files/avro_charvarchar.txt
```

\$mv apache-hive-3.1.2-bin hive

\$nano ~/.bashrc

\$source ~/.bashrc

\$cd hive

\$cp conf/hive-default.xml.template conf/hive-site.xml

```
[hadoop@kali: ~]$ cd hive
[hadoop@kali: ~/hive]$ $ {system:java.io.tmpdir}
[hadoop@kali: ~/hive]$ cp conf/hive-default.xml.template conf/hive-site.xml
[hadoop@kali: ~/hive]$ nano conf/hive-site.xml
```

\$nano conf/hive-site.xml

\$start-all.sh

```

(hadoop@kali)~$ start-all.sh
WARNING: Attempting to start all Apache Hadoop daemons as hadoop in 10 seconds.
WARNING: This is not a recommended production deployment configuration.
WARNING: Use CTRL-C to abort.
Starting namenodes on [localhost]
Starting datanodes
Starting secondary namenodes [kali]
Picked up _JAVA_OPTIONS: -Dawt.useSystemAAFontSettings=on -Dswing.aatext=true
2024-09-11 04:59:16,429 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Starting resourcemanager
Starting nodemanagers

```

\$ jps

```

(hadoop@kali)~$ jps
Picked up _JAVA_OPTIONS: -Dawt.useSystemAAFontSettings=on -Dswing.aatext=true
14436 NodeManager
16772 Jps
13830 SecondaryNameNode
14311 ResourceManager
13597 DataNode
13471 NameNode

```

\$hdfs dfs -mkdir /user

\$hdfs dfs -mkdir /user/hive

\$hdfs dfs -mkdir /user/hive/warehouse

\$hdfs dfs -mkdir /user/tmp

\$hdfs dfs -chmod g+w /user/tmp

\$hdfs dfs -chmod g+w /user/hive/warehouse

```

(hadoop@kali)~/hadoop/bin$ ./hdfs dfs -ls /user/
Picked up _JAVA_OPTIONS: -Dawt.useSystemAAFontSettings=on -Dswing.aatext=true
2024-09-10 01:04:28,163 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform...
Found 2 items
drwxr-xr-x - hadoop supergroup 0 2024-09-09 23:31 /user/hive
drwxrwxr-x - hadoop supergroup 0 2024-09-09 23:31 /user/tmp

```

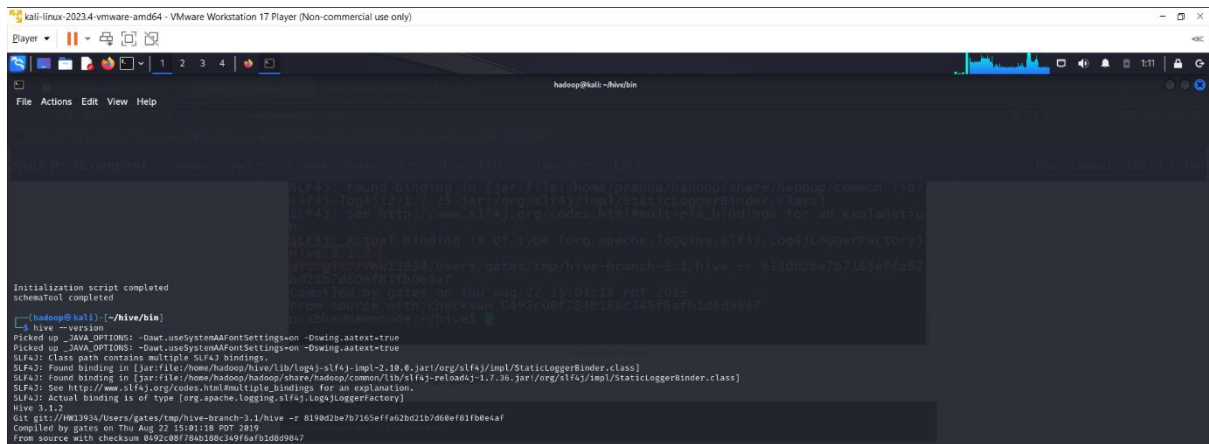
\$cd \$HIVE_HOME/bin

\$schematool -initSchema -dbType derby

```

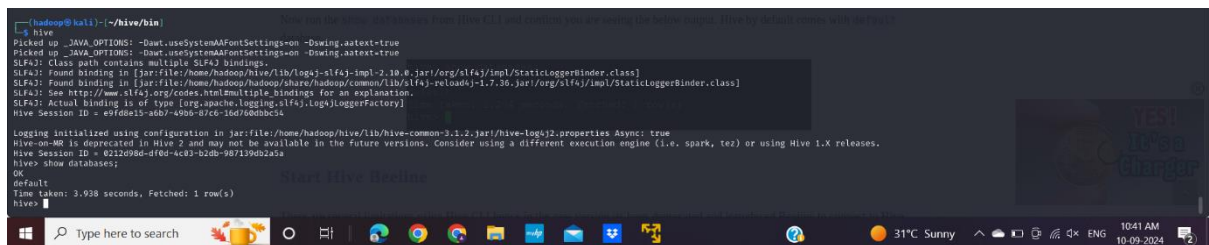
kali-linux-2023.4-vmware-amd64 - VMware Workstation 17 Player (Non-commercial use only)
Player
(hadoop@kali)~/hive/bin$ ./schematool -initSchema -dbType derby
Picked up _JAVA_OPTIONS: -Dawt.useSystemAAFontSettings=on -Dswing.aatext=true
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/home/hadoop/hive/lib/log4j-slf4j-impl-2.10.0.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/home/hadoop/hadoop/share/hadoop/common/lib/slf4j-reloadable-1.7.36.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.slf4j.Log4jLoggerFactory]
Metastore connection URL: jdbc:derby:databaseName=metastore_db;create=true
Metastore Connection Driver: org.apache.derby.jdbc.EmbeddedDriver
Metastore Connection User: root
Starting metastore schema initialization to 3.1.0
Initialization script hive-schema-3.1.0.derby.sql

```

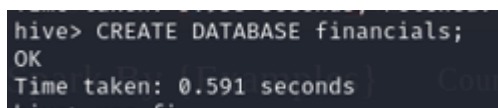


\$hive

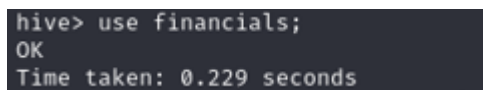
```
>show databases;
```



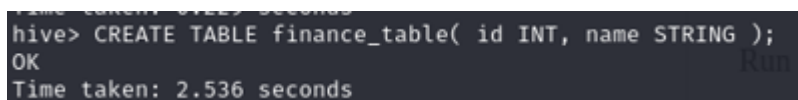
```
> CREATE DATABASE financials;
```



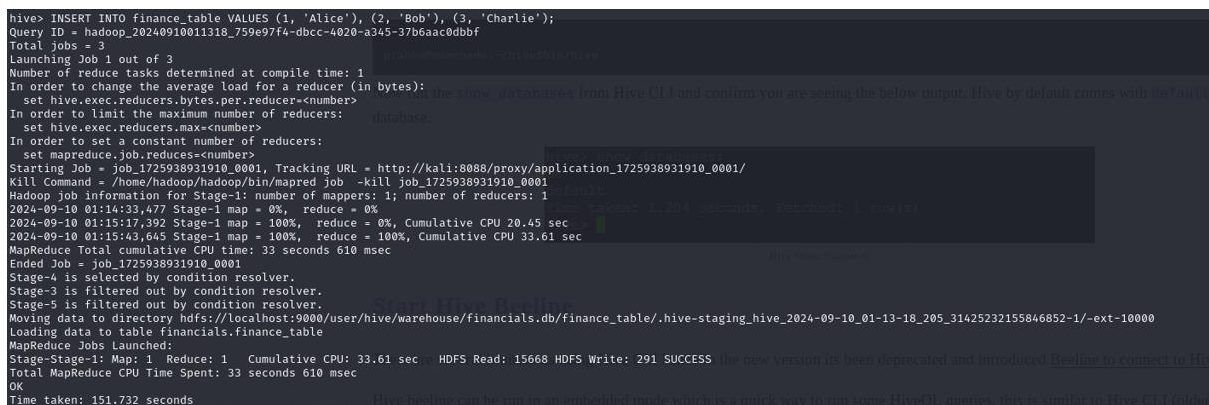
> use financials;



```
> CREATE TABLE finance table( id INT, name STRING );
```



```
> INSERT INTO finance tableVALUES (1, 'Alice'), (2, 'Bob'), (3, 'Charlie');
```



> CREATE VIEW myview AS SELECT name, id FROM finance_table;

```
hive> CREATE VIEW myview AS SELECT name, id FROM finance_table;
OK
Time taken: 0.82 seconds
```

> SELECT * FROM myview;

```
hive> SELECT * FROM myview;
OK
Alice 1
Bob 2
Charlie 3
Time taken: 0.716 seconds, Fetched: 3 row(s)
hive>
```

> DESCRIBE finance_table;

```
hive> DESCRIBE finance_table;
OK
id int
name string
Time taken: 0.348 seconds, Fetched: 2 row(s)
```

> ALTER TABLE finance_table ADD COLUMNS (age INT);

>quit;

```
hive> ALTER TABLE finance_table ADD COLUMNS (age INT);
OK
Time taken: 0.457 seconds
hive> quit;
```