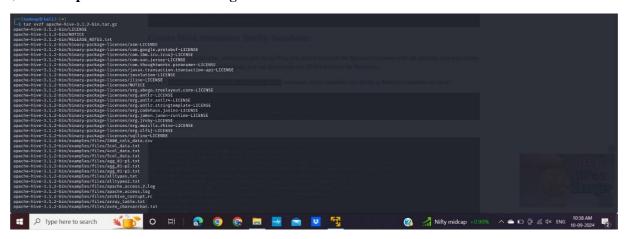
EXP NO: 5

INSTALLATION OF HIVE

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

```
karthickragav@fedora:~$ wget https://archive.apache.org/dist/hive/hive-3.1.2/apache-hive-3.1.2-bin.tar.gz
apache-hive-3.1.2-bi 5% [==> ] 14.67M 857.89KB/s
[Files: 0 Bytes: 0 [0 B/s] Re]
```

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



\$mv apache-hive-3.1.2-bin hive

\$nano ~/.bashrc

\$source ~/.bashrc

\$cd hive

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

```
karthickragav@fedora:~$ nano conf/hive-site.xml
karthickragav@fedora:~$
karthickragav@fedora:~$
```

\$nano conf/hive-site.xml

\$start-all.sh

```
karthickragav@fedora:~—bash /home/karthickragav/hadoop/sbin/start-all.sh
karthickragav@fedora:~$ nano conf/hive-site.xml
karthickragav@fedora:~$ start-all.sh
wARNING: Attempting to start all Apache Hadoop daemons as karthickragav 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 [fedora]
Starting resourcemanager
Starting nodemanagers
karthickragav@fedora:~$

| Apache Hadoop daemons as karthickragav in 10 seconds.
| Apache Hadoop daemons as karthickragav in 10 seconds.
| Apache Hadoop daemons as karthickragav in 10 seconds.
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| Apache Hadoop daemons as karthickragav in 10 seconds.
| Apache Hadoop daemons as karthickragav in 10 seconds.
| Apache Hadoop daemons daemons
```

\$ jps
karthickragav@fedora:~\$ j
4130 SecondaryNameNode
4611 NodeManager
5030 Jps
3705 NameNode
3899 DataNode

4479 ResourceManager karthickragav@fedora:~\$

\$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

```
karthickragav@fedora:~$ hdfs dfs -ls /user

Found 2 items

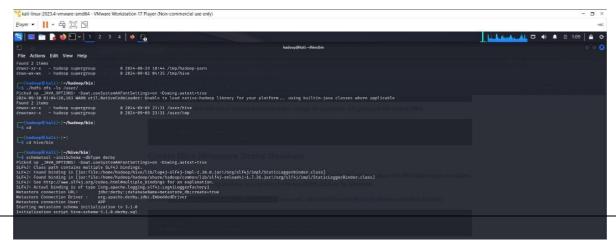
drwxr-xr-x - karthickragav supergroup 0 2024-09-12 12:16 /user/bin

drwxr-xr-x - karthickragav supergroup 0 2024-09-18 12:29 /user/hive

karthickragav@fedora:~$
```

\$cd \$HIVE_HOME/bin

\$schematool -initSchema -dbType derby



```
which: no hbase in (/home/karthickragav/.local/bin:/home/karthickragav/bin:/usr/local/bin:/usr/local/sbin:/usr/sbin:/home/karthickragav/pig/bin:/home/karthickragav/hadoop/sbin:/home/karthickragav/hadoop/bin:/home/karthickragav/hadoop/bin:/home/karthickragav/hadoop/bin:/home/karthickragav/hadoop/bin:/home/karthickragav/hive/bin:/home/karthickragav/hive/bin)

SLF4J: Class path contains multiple SLF4J bindings.

SLF4J: Found binding in [jar:file:/home/karthickragav/hive/lib/log4j-slf4j-impl-2.10.0.jar!/org/slf4j/impl/SticLoggerBinder.class]

SLF4J: Found binding in [jar:file:/home/karthickragav/hadoop/share/hadoop/common/lib/slf4j-reload4j-1.7.36.ja/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]

Hive Session ID = e738ec85-4469-46db-a955-e2le70debcdd

Logging initialized using configuration in jar:file:/home/karthickragav/hive/lib/hive-common-3.1.2.jar!/hive-g4j2.properties Async: true
```

\$hive

>show databases;

> CREATE DATABASE financials;

```
hive> CREATE DATABASE financials;
OK
Time taken: 0.591 seconds
```

> use financials:

```
hive> use financials;
OK
Time taken: 0.229 seconds
```

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

```
hive> CREATE TABLE finance_table( id INT, name STRING );
OK
Time taken: 2.536 seconds
```

> INSERT INTO finance_tableVALUES (1, 'Alice'), (2, 'Bob'), (3, 'Charlie');

```
hive> INSERT INTO finance_table VALUES (1, 'Alice'), (2, 'Bob'), (3, 'Charlie');

Query ID * hadoop_20240910011318_759e97f4-dbcc-4020-a345-37b6aac0dbbf
Total jobs = 3
Launching Job 1 out of 3
Number of reduce tasks determined at compile time: 1
In order to change the average load for a reducer (in bytes):
set hive-xec.reducers.bytes.per.reducer-<number>
In order to limit the maximum number of reducers:
set hive-xec.reducers.max-<number>
In order to set a constant number of reducers:
set hive-xec.reducers.max-<number>
In order to set a constant number of reducers:
set mapreduce.job.reduces.ordnebrey
Starting Job = job.j1725938931910_0001, Tracking URL = http://kali:8088/proxy/application_1725938931910_0001/
Kill Command - /home/hadoop/hadoop/hin/mapred job -kill job_1725938931910_0001
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2024-09-10 01:14:33,475 Stage-1 map = 0%, reduce = 0%, Cumulative CPU 20.45 sec
2024-09-10 01:15:17,392 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 33.61 sec
MapReduce Total cumulative CPU time: 33 seconds 610 msec
Ended Job = job_1725938931910_0001
Stage-4 is relitered out by condition resolver.
Stage-3 is filtered out by condition resolver.
Stage-5 is filtered out by condition resolver.
Stage-5 is filtered out by condition resolver.
Stage-5 is filtered out by condition resolver.
Stage-6 is filtered out by condition resolver.
Stage-7 is filtered out by condition resolver.
Stage-8 is filtered o
```

> 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;
```