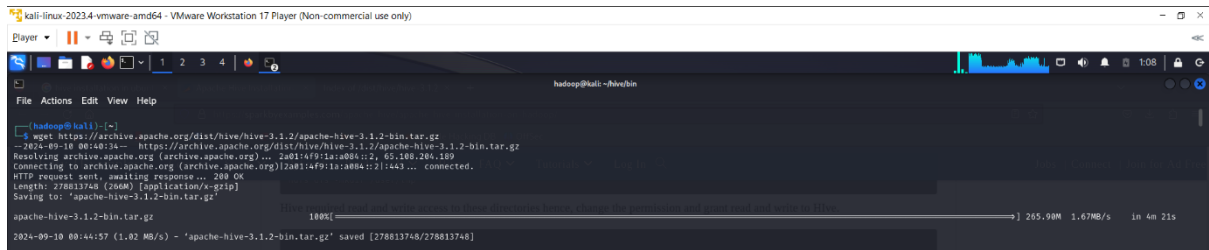


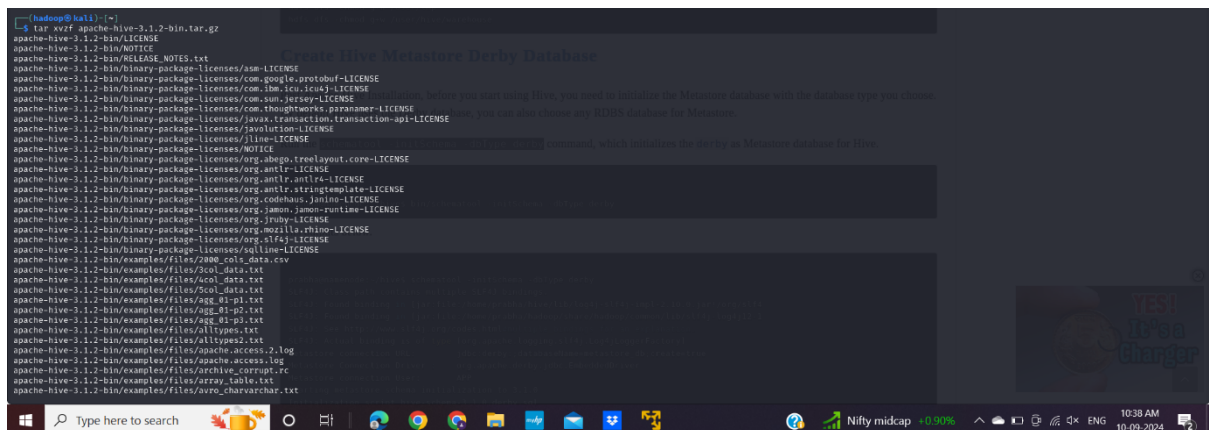
**EXP NO: 5**

## INSTALLATION OF HIVE

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



## Star xvzf apache-hive-3.1.2-bin.tar.gz



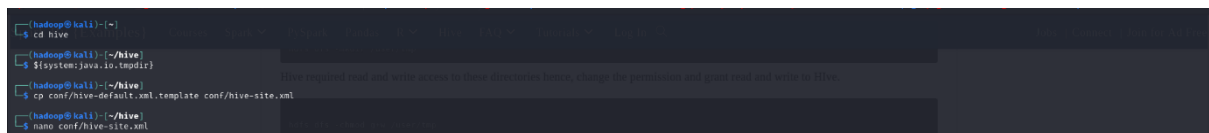
```
$mv apache-hive-3.1.2-bin hive
```

**\$nano ~/.bashrc**

```
$source ~/.bashrc
```

## \$cd hive

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



**\$nano conf/hive-site.xml**

## \$start-all.sh

```
hadoop@kali: ~  
File Actions Edit View Help  
[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

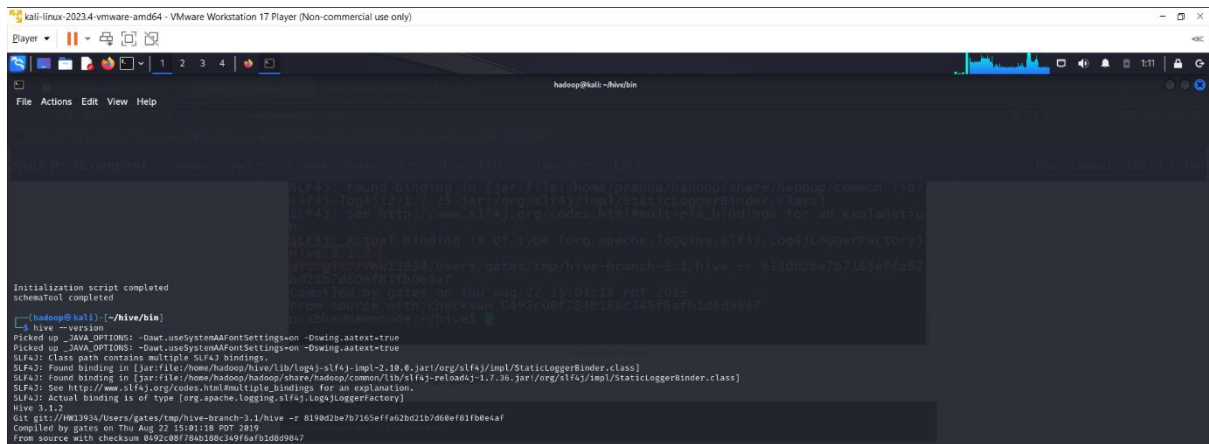
## \$hdfs dfs -chmod g+w /user/hive/warehouse

```
[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

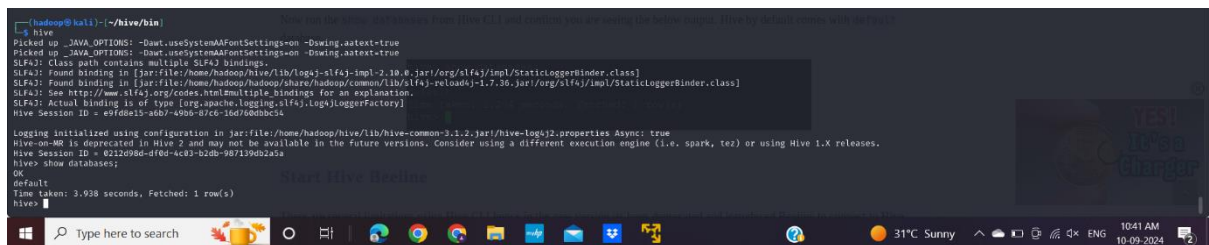
## \$schematool -initSchema -dbType derby

```
kali-linux-2023.4-vmware-amd64 - VMware Workstation 17 Player (Non-commercial use only)  
Player  
hadoop@kali: ~/hive/bin  
File Actions Edit View Help  
Found 2 items  
drwxr-xr-x - hadoop supergroup 0 2024-08-29 18:44 /tmp/hadoop-yarn  
drwxrwxr-x - hadoop supergroup 0 2024-09-02 01:25 /tmp/hive  
[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... using builtin-java classes where applicable  
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  
[hadoop@kali]~/hadoop/bin  
$ cd  
[hadoop@kali]~  
$ cd hive/bin  
[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
```

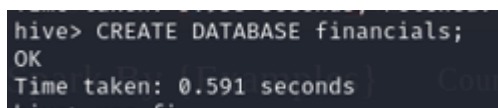


## \$hive

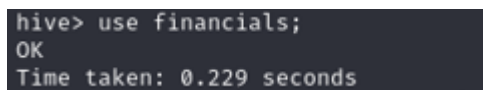
```
>show databases;
```



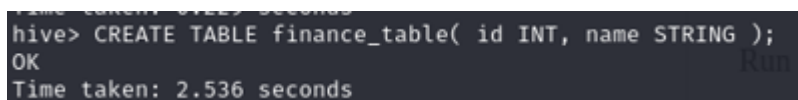
```
> CREATE DATABASE financials;
```



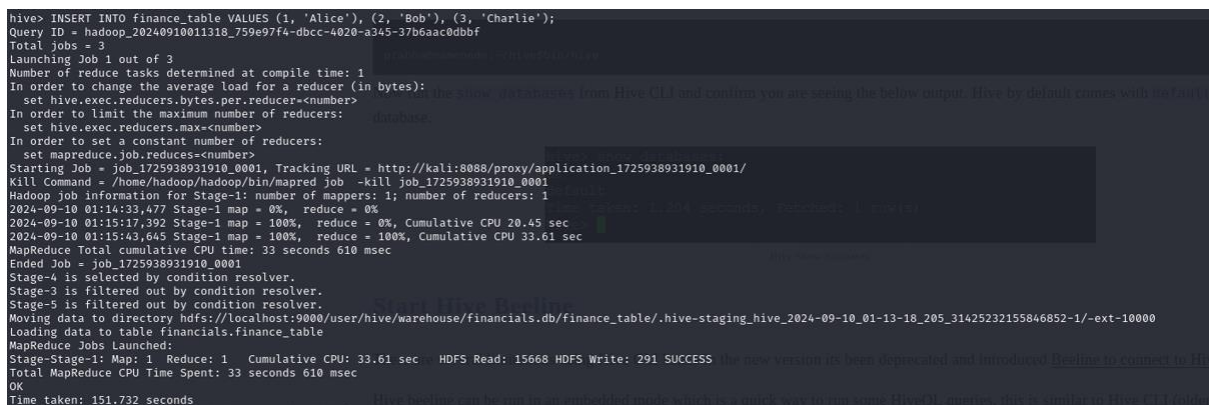
**> use financials;**



```
> 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;
```