Subject : Software Laboratory VI Class: BE IT
Experiment No: 2.1

Aim : Study of NoSQL Databases such as **Hbase/ Hive/ Cassendra/ DynamoDB**

Hive installation

Steps:
Download Hive from http://www.eu.apache.org/dist/hive/stable/apache-hive-1.2.1-bin.tar.gz
Copy and extract apache-hive-1.2.1-bin.tar.gz in home folder
Rename the extracted folder name from **apache-hive-1.2.1** to **hive**

remember your user name
whoami

Set the environment variables

gedit .bashrc

add following lines at the end
export PATH="/home/**your_user_name**/hadoop/bin:/home/**your_user_name**/hadoop/sbin:$PATH"
export PATH="/home/**your_user_name**/hive/bin:$PATH"
save and exit the file

source .bashrc

verify the PATH variable
echo $PATH

start dfs
~/hadoop/sbin/start-dfs.sh
jps

~/hadoop/bin/hadoop fs -mkdir   /tmp

~/hadoop/bin/hadoop fs -mkdir   /user

~/hadoop/bin/hadoop fs -mkdir   /user/hive

~/hadoop/bin/hadoop fs -mkdir   /user/hive/warehouse

~/hadoop/bin/hadoop fs -chmod g+w   /tmp

~/hadoop/bin/hadoop fs -chmod g+w   /user/hive/warehouse

Running Hive CLI
hive

Creating Hive Table
hive> CREATE TABLE student (roll INT, name STRING);

show all tables
hive> SHOW TABLES;

show tables that end with 't'
```
hive>  SHOW TABLES '.*t';
```

show the list of columns of a table
```
hive> DESCRIBE student;
```

change the table name
```
hive> ALTER TABLE student RENAME TO student1;
```

add new column to a table
```
hive> ALTER TABLE student1 ADD COLUMNS (marks INT);
hive> DESCRIBE student1;
```

drop table
```
hive> DROP TABLE student1;
```

For more HiveQL DDL statements please refer

https://cwiki.apache.org/confluence/display/Hive/LanguageManual+DDL

quit Hive CLI
```
hive> quit;
```

Stop hadoop
```
~/hadoop/sbin/stop-dfs.sh
jps
```

Reference :

https://cwiki.apache.org/confluence/display/Hive/GettingStarted#GettingStarted-InstallingHivefromaStableRelease

Prepared By,
Prof. S. T. Kolhe
(Department of I.T – S.R.E.S C.O.E Kopargaon)