Experiment-3

Installation steps for HBase :-

1. Download hbase from apache website
(https:// dlcdn. apache . org / hbase /2-6. 1 / hbase -2.6:
- bin. tar.gz)

2. Place the downloaded file into home folder
hbase - 1. 1. 2 - bin.tar.gz in /home.

3. Unzip it by executing command $tar

$tar -xvf hbase-1. 1.2-bin.tar.gz.
It will unzip the contents, and it will create.
hbase 1. 1, 2 in the location /home.

4. Open hbase-env.sh (to open this go to home/hadoop
-2.6.1/conf right click on conf open with termnal)

5. In terminal enter the command: gedit hbase -env.sh

6. Open hbase - env.sh as above and mention
JAVA -HOME path in the location.
export JAVA-HOME =/usr/lib/jvm/java-8-open-jdk-amd64
(save and close the file).

7. Open ~/.bashrc file (gedit ~/.bashrc) and mention —HBASE-HOME path as shown in below

export —HBASE-HOME = /home/student/hbase-2.6.1.

export PATH = $PATH: $HBASE-HOME/bin (save and close the file).

8. Add properties in the file.

Open hbase-site.xml (gedit hbase-site.xml) and place the following properties inside the file.

```
<property>
<name> hbase.rootdir </name>
<value> file:/// home /student/hbase-2.6.1 </value>
</property>
```

(save and close the file)

—Here we are placing two properties —

• One for HBase root directory and

• Second for data data directory (correspond to Zookeeper.

All HMaster and Zookeeper activities point out to this hbase-site.xml.

9. Close the terminal and go to home/hbau-2.6.1/bin open with terminal

10. type the following commands
    a. start-hbase.sh
    b. jh:
    c. hbase shell:

Experiment:-

1. Creating table in hbase

create 'customer', 'customer-info', 'customer-details'

2. To list the tables in hbase: list

3. To insert values into table:

put 'customer', '1', 'customer-info: name', 'sita',

put 'customer', '1', 'customer-details: mobile', '99999999'

4. To display the contents of the table

get 'customer', '1'

5. To insert other values into table:

put 'customer', '1', 'customer-info: age', '25'

put 'customer', '1', 'customer-details: email', 'sita@gmail.com'

6. To display the contents of the table.

get 'customer', '1'.

7. To insert other row

put 'customer', '2', 'customer-info:name', 'rama'

put 'customer', '2', customer-details=mobile, '9529942837'

put 'customer', '2', 'customer-info:age', '28'.

put 'customer', '2', 'customer-details:email', 'rama@gmail.c'

8. To update the details

put 'customer', '1', "customer-info:name", 'John' #update
name

put 'customer','1',"customer-info-age.", '31' #update age

9. Delete an entire row (all columns) from
— the table.

delete all 'customer', '1'.

10. Delete a specific column from a row:

delete 'customer', '1', 'customer-details:mobile'.