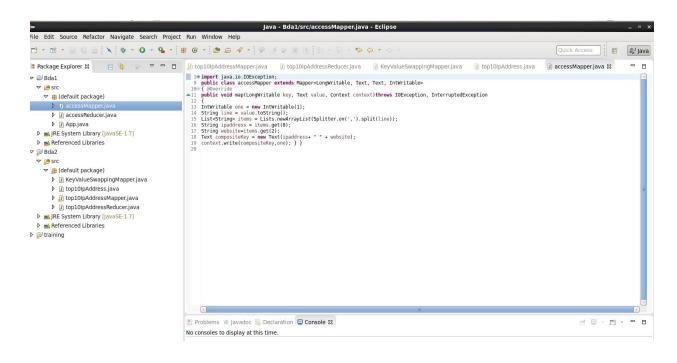
MapReduce:

Pre requisites:

1) Create .jar files from the collection of java files and save it to /home/cloudera/



2) Two .jar files (Access1.jar and Access2.jar) are saved in /home/cloudera

```
cloudera@quickstart:~
File Edit View Search Terminal Help
[cloudera@quickstart ~]$ ls
                                                                  Public
Access1.jar
                 Desktop
                            enterprise-deployment.json
Access2.jar
                 Documents
                            express-deployment.json
                                                                  Templates
cloudera-manager Downloads
                            jdk-8u131-linux-x64.tar.gz
                                                        parcels
                                                                  Videos
                                                        Pictures workspace
cm api.py
                 eclipse
                            kerberos
[cloudera@quickstart ~]$ pwd
/home/cloudera
```

3) Make a input directory in hdfs dfs and move your dataset into it



Analysis:

1) MapReduce in Hadoop to find the number of times each IP accessed the website.

Output:

Command: hadoop jar /home/cloudera/Access1.jar App /input/access.csv /out1



2) Top 10 most visited IP addresses

Output:

Command: hadoop jar /home/cloudera/Access2.jar top10IpAddress /input/access.csv /out2

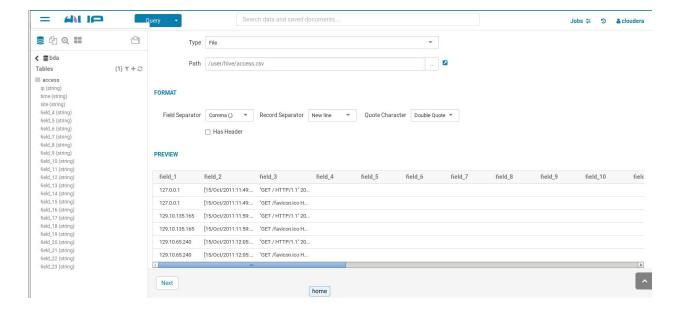
Top 10 most visited IP addresses

```
[cloudera@quickstart ~]$ hdfs dfs -cat /out2/Out2/part-r-00000 | head -n10
        155.33.18.236
3724
        207.248.55.246
2812
        10.15.10.129
2108
        10.15.10.135
1501
        129.10.65.240
1279
        107.20.213.124
765
        168.144.67.144
667
        50.63.154.43
643
        72.158.153.33
642
        118.102.182.196
```

HIVE:

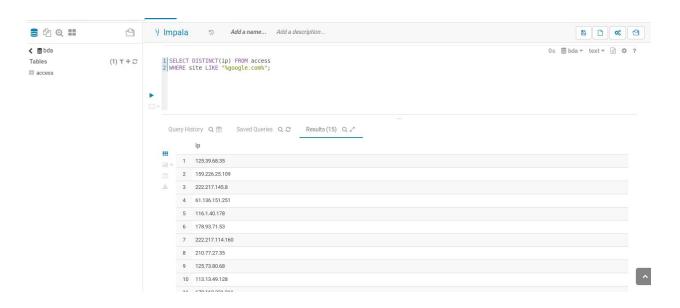
Prerequisites:

1) Upload the dataset into hive by specifying the data types and column names.

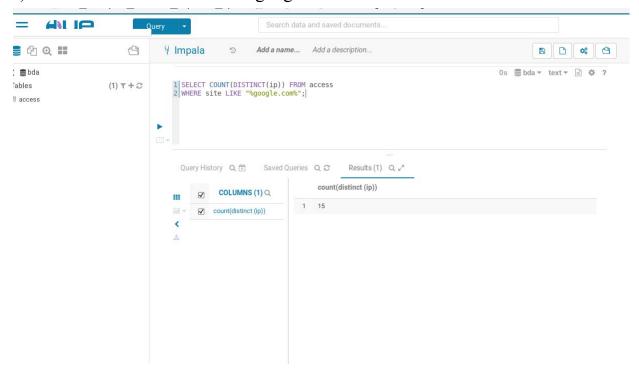


Analysis:

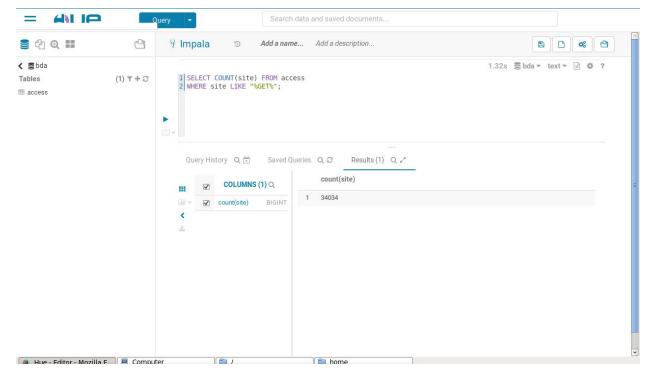
1) Ip users that visited "google.com"



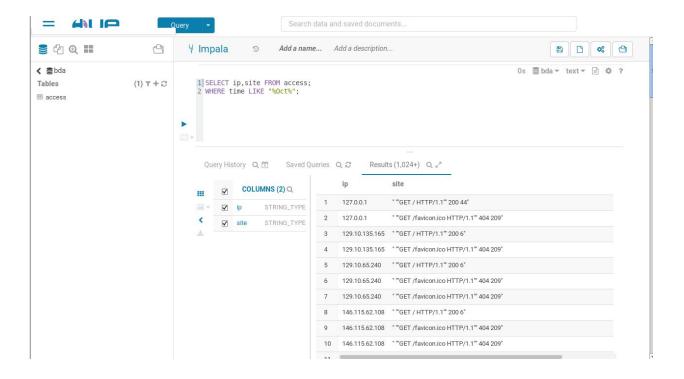
2) Number of users that visited "google.com"



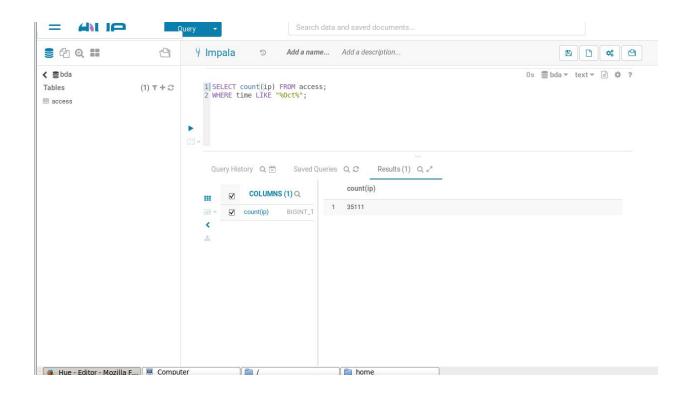
3) Number of times GET method was used



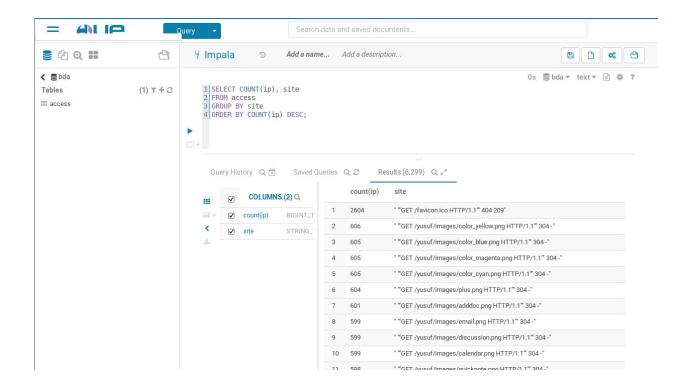
1) Sites that were visited in October



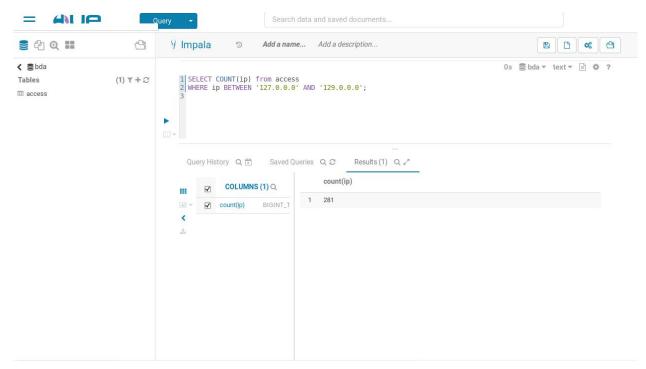
5) Number of sites visited in October



6) Most visited sites



7) Number of users having ips between 127.0.0.0 and 129.0.0.0



8) Ips between 127.0.0.0 and 129.0.0.0 ordered in descending order.

