LogData Analysis

We will see web log analysis using Apache Pig

Understanding Data

ip_addr: ip address of the client (hostname).

Time: time at which server finished processing request.

Request: request made by client

Page link: web page through which client made a request.

Problem Statement 1

Find out the most viewed page.

```
1) LOAD the Log data set.
grunt> load_logdata = LOAD

'file:///home/cloudera/khasimbabu/PIG_Excercise/CaseStudy4/sample_log' USING PigStorage('|') as
(ip_addr:chararray,time:chararray,request:chararray,pagelink:chararray);

2) Select the list of columns from dataset
grunt> log_details = FOREACH load_logdata GENERATE ip_addr,pagelink;

3) Group log data by pagelink
grunt> grp_logdata = GROUP log_details by pagelink;
grunt> describe grp_logdata;
grp_logdata: {group: chararray, log_details: {(ip_addr: chararray,pagelink: chararray)}}

4) Count and Order the Pagelink info.
grunt> count_grp_logdata = FOREACH grp_logdata GENERATE flatten($0),COUNT($1);
grunt> order_grp_logdata = ORDER count_grp_logdata by $1 DESC;
```

Problem Statement 2

• Find total hits per unique day

grunt> dump order_grp_logdata;

```
grunt> Register Piggybank.jar;
grunt> DEFINE DATE_EXTRACT
org.apache.pig.piggybank.evaluation.util.apachelogparser.DateExtract
grunt> grpd = GROUP raw_data by DATE_EXTRACT(time);
grunt> hits_per_day = foreach grpd GENERATE flatten($0), COUNT($1);
grunt> dump hits_per_day
```