

# Hive Queries

Enter 'Hive' in linux shell to enter in hive environment.

```
CREATE TABLE IF NOT EXISTS bitcoin_tweets.bitcoin_tweets (user_name String,  
user_created String, text String) COMMENT 'Bitcoin tweets' ROW FORMAT  
DELIMITED FIELDS TERMINATED BY ',' LINES TERMINATED BY '\n';
```

```
CREATE TABLE IF NOT EXISTS bitcoin_tweets.bag_of_words (word String)  
COMMENT 'Bag of words' ROW FORMAT DELIMITED FIELDS TERMINATED BY  
'\n' ;
```

```
LOAD DATA INPATH 'gs://dataproc-staging-us-central1-744395099175-nyv31aa8/  
bitcoin-tweets/bag_of_words.csv' INTO TABLE bag_of_words;
```

```
LOAD DATA INPATH 'gs://dataproc-staging-us-central1-744395099175-nyv31aa8/  
bitcoin-tweets/pig_Output/part-m-00000' INTO TABLE  
bitcoin_tweets.bitcoin_tweets;
```

```
LOAD DATA INPATH 'gs://dataproc-staging-us-central1-744395099175-nyv31aa8/  
bitcoin-tweets/pig_Output/part-m-00001' INTO TABLE  
bitcoin_tweets.bitcoin_tweets;
```

```
LOAD DATA INPATH 'gs://dataproc-staging-us-central1-744395099175-nyv31aa8/  
bitcoin-tweets/pig_Output/part-m-00002' INTO TABLE  
bitcoin_tweets.bitcoin_tweets;
```

```
LOAD DATA INPATH 'gs://dataproc-staging-us-central1-744395099175-nyv31aa8/  
bitcoin-tweets/pig_Output/part-m-00003' INTO TABLE  
bitcoin_tweets.bitcoin_tweets;
```

```
LOAD DATA INPATH 'gs://dataproc-staging-us-central1-744395099175-nyv31aa8/  
bitcoin-tweets/pig_Output/part-m-00004' INTO TABLE  
bitcoin_tweets.bitcoin_tweets;
```

```
LOAD DATA INPATH 'gs://dataproc-staging-us-central1-744395099175-nyv31aa8/  
bitcoin-tweets/pig_Output/part-m-00005' INTO TABLE  
bitcoin_tweets.bitcoin_tweets;
```

```
LOAD DATA INPATH 'gs://dataproc-staging-us-central1-744395099175-nyv31aa8/  
bitcoin-tweets/pig_Output/part-m-00006' INTO TABLE  
bitcoin_tweets.bitcoin_tweets;
```

```
LOAD DATA INPATH 'gs://dataproc-staging-us-central1-744395099175-nyv31aa8/
bitcoin-tweets/pig_Output/part-m-00007' INTO TABLE
bitcoin_tweets.bitcoin_tweets;
```

```
LOAD DATA INPATH 'gs://dataproc-staging-us-central1-744395099175-nyv31aa8/
bitcoin-tweets/pig_Output/part-m-00008' INTO TABLE
bitcoin_tweets.bitcoin_tweets;
```

```
LOAD DATA INPATH 'gs://dataproc-staging-us-central1-744395099175-nyv31aa8/
bitcoin-tweets/pig_Output/part-m-00009' INTO TABLE
bitcoin_tweets.bitcoin_tweets;
```

```
LOAD DATA INPATH 'gs://dataproc-staging-us-central1-744395099175-nyv31aa8/
bitcoin-tweets/pig_Output/part-m-00010' INTO TABLE
bitcoin_tweets.bitcoin_tweets;
```

```
LOAD DATA INPATH 'gs://dataproc-staging-us-central1-744395099175-nyv31aa8/
bitcoin-tweets/pig_Output/part-m-00011' INTO TABLE
bitcoin_tweets.bitcoin_tweets;
```

```
LOAD DATA INPATH 'gs://dataproc-staging-us-central1-744395099175-nyv31aa8/
bitcoin-tweets/pig_Output/part-m-00012' INTO TABLE
bitcoin_tweets.bitcoin_tweets;
```

```
LOAD DATA INPATH 'gs://dataproc-staging-us-central1-744395099175-nyv31aa8/
bitcoin-tweets/pig_Output/part-m-00013' INTO TABLE
bitcoin_tweets.bitcoin_tweets;
```

```
LOAD DATA INPATH 'gs://dataproc-staging-us-central1-744395099175-nyv31aa8/
bitcoin-tweets/pig_Output/part-m-00014' INTO TABLE
bitcoin_tweets.bitcoin_tweets;
```

```
CREATE TABLE IF NOT EXISTS bitcoin_tweets.spam_data (user_name String,
user_created String, text String) COMMENT 'Spam dataset' ROW FORMAT
DELIMITED FIELDS TERMINATED BY ',' LINES TERMINATED BY '\n';
```

```
insert into spam_data select user_name,user_created,text from bitcoin_tweets bt
JOIN bag_of_words bw ON (upper(bt.text) like upper(concat('%',bw.word,'%')));
```

```
CREATE TABLE IF NOT EXISTS bitcoin_tweets.ham_data (user_name String,
user_created String, text String) COMMENT 'Ham dataset' ROW FORMAT
DELIMITED FIELDS TERMINATED BY ',' LINES TERMINATED BY '\n';
```

```
insert into ham_data select user_name, user_created, text from bitcoin_tweets
where text not in (select text from spam_data);
```

```
select user_name,count(user_name) from ham_data group by
user_name,user_created order by count(user_name) desc limit 10;
```

```
select user_name,count(user_name) from spam_data group by
user_name,user_created order by count(user_name) desc limit 10;
```

```
CREATE TABLE IF NOT EXISTS bitcoin_tweets.ham_data_top10 (user_name String,
user_created String, text String) COMMENT 'Ham dataset top 10' ROW FORMAT
DELIMITED FIELDS TERMINATED BY ',' LINES TERMINATED BY '\n';
```

```
CREATE TABLE IF NOT EXISTS bitcoin_tweets.spam_data_top10 (user_name
String, user_created String, text String) COMMENT 'Spam dataset top 10' ROW
FORMAT DELIMITED FIELDS TERMINATED BY ',' LINES TERMINATED BY '\n';
```

```
insert into ham_data_top10 select * from ham_data where user_name in (select
user_name from ham_data group by user_name,user_created order by
count(user_name) desc limit 10);
```

```
insert into spam_data_top10 select * from spam_data where user_name in (select
user_name from spam_data group by user_name,user_created order by
count(user_name) desc limit 10);
```

```
CREATE TABLE spam_csv_export_data ROW FORMAT DELIMITED FIELDS
TERMINATED BY ',' LINES TERMINATED BY '\n' STORED as textfile AS select
'user_name' as user_name, 'user_created' as user_created, 'text' as text;
```

```
CREATE TABLE ham_csv_export_data ROW FORMAT DELIMITED FIELDS
TERMINATED BY ',' LINES TERMINATED BY '\n' STORED as textfile AS select
'user_name' as user_name, 'user_created' as user_created, 'text' as text;
```

```
insert into ham_csv_export_data select user_name,user_created,text from
ham_data_top10;
```

```
insert into spam_csv_export_data select user_name,user_created,text from
spam_data_top10;
```

```
quit;
```

Enter 'hadoop fs -cat 'hdfs://assignment-1-cluster-m/user/hive/warehouse/bitcoin\_tweets.db/spam\_csv\_export\_data/\*' > ~/spam\_hive\_output.csv' in linux command line.

Enter 'hadoop fs -cat 'hdfs://assignment-1-cluster-m/user/hive/warehouse/bitcoin\_tweets.db/ham\_csv\_export\_data/\*' > ~/ham\_hive\_output.csv' in linux command line.