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**CIND719 Big Data Analytics Tools** 

Fall 2019, Wednesday 6:30-9:30 pm section

Wednesday, October 2, 2019

## **Assignment 1**

hadoop fs -put /root/lab/station\_data.csv /user/lab hadoop fs -put /root/lab/trip\_data.csv /user/lab hadoop fs -mkdir /root/lab

hadoop fs -put /root/station data.csv /user/lab

hadoop fs -put /root/trip data.csv /user/lab

hadoop fs -ls /user/lab

create table trip\_data (trip\_id int, duration string, start\_date string, start\_station string, start\_terminal int, end\_date date, end\_station string, end\_terminal int, bike\_id int, subscription\_type string, zip\_code int) row format delimited fields terminated by ',';

create table station\_data ( station\_id int, station\_name string, lat string, lon string, dockcount int, landmark string, installation string ) row format delimited fields terminated by ',';

load data inpath '/user/lab/trip\_data.csv' overwrite into table trip\_data;

load data inpath '/user/lab/station\_data.csv' overwrite into table station\_data;

## Question 1

select max (bike\_id) from trip\_data as popularbike;

SELECT bike id, COUNT(\*)

FROM trip\_data

GROUP BY bike\_id

ORDER BY COUNT(\*) DESC

LIMIT 1;

## Question 2

Select subscription\_type, count (subscription\_type) from trip\_data group by subscription\_type;

## Question 3

```
hive> select * from stationlist limit 10;
OK
2nd at Folsom 2nd at South Park
                                      101
2nd at Folsom 2nd at Townsend 1121
2nd at Folsom 5th at Howard 1095
2nd at Folsom Beale at Market 219
2nd at Folsom Broadway St at Battery St
                                             1028
2nd at Folsom Civic Center BART (7th at Market)
                                                     1003
2nd at Folsom Clay at Battery 1019
2nd at Folsom Commercial at Montgomery
                                              2379
2nd at Folsom Davis at Jackson
                                      1015
2nd at Folsom Embarcadero at Bryant
                                      1011
Time taken: 1.249 seconds, Fetched: 10 row(s)
```

create table stationlist as select start\_station, end\_station, min(duration) from trip\_data where start\_station != end\_station group by start\_station, end\_station;

select \* from stationlist limit 10;