## **Assignment 3**

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### **Hive Assignment**

### **Problems**

- 1. Create database in Hive
- 2. Create Hive table inside database.
- 3. Load data into hive table
- 4. Load data from local file into Hive table (Hint: use keyword localin load data command)
- 5. Run queries for customer table for following:
  - a) Find unique states
  - b) Find number of customers from each state
  - c) List and count number of unique "fnames"
  - d) List and count number of unique "cities"\

### 1. Create database in hive

```
#Create database in hive
hive> CREATE DATABASE assignment_db;

OK
Time taken: 0.427 seconds
```

### 2. Create Hive table inside database.

Create skeleton of **customers** table in hive.

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```
> customer_city varchar(45),
> customer_state varchar(45),
> customer_zipcode varchar(45)) row format delimited fields terminated by ',' stored as textfile;
```

```
OK
Time taken: 1.195 seconds
```

### 3. Load Data into hive

Load data into customers table from hdfs

```
hive> load data inpath '/retail_db/customers' into table assignment_db.customers;

Loading data to table assignment_db.customers
OK
Time taken: 2.936 seconds
```

# 4. Load data from local file into Hive table (Hint: use keyword load data local inpath command)

hive> load data local inpath '/home/sois/Documents/file.csv' overwrite into table assignment\_db.customers;

```
Loading data to table assignment_db.customers
OK
Time taken: 1.129 seconds
```

### file.csv - Local csv file used to load data from local machine to hive.

102,Prathik,Shetty,prathik@gmail.com,12345pass,Manipal Road,Udupi,Karnataka,576124 103,Pradyumna,Alevoor,pradyumna@gmail.com,12345pass,Alevoor Road,Udupi,Karnataka,574118

## Run queries for customer table for following:

### a) Find unique states

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### b) Find number of customers from each state

#### c) List and count number of unique fnames.

```
--Total Unique fnames
hive> SELECT COUNT(DISTINCT customer_fname)
> FROM assignment_db.customers;
```

### d) List and count number of unique cities.

```
--Total Unique Cities
hive> SELECT COUNT(DISTINCT customer_city)
> FROM assignment_db.customers;
```

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