Load data from Spark to HDFS

Commands used to clean and aggregate data

The python file will need some configurations. First, we will need to install **pyspark** using the command below.

conda install pyspark==2.3.0

We have to install this version of pyspark because we have Apache Spark 2.3.0 installed in our ec2-instance.

Run python file named spark_local_flatten_datewise_aggregates.py using the command below.

python spark_local_flatten_datewise_aggregates.py

This python file will load all tables created directly to Hive database inside HDFS

To check if all the tables already exist inside Hive database, we use this command below.

hadoop fs -ls /user/hive/warehouse/

Screenshots of command process

Bookings table

```
3K61795-1

-08-09 19:02:56 120

8K1797410350 86869399

-08-23 18:38:39 29 7 63

8K5788246325 58230837

-05-19 11:16:445 932 32

8K83427903255 84232510

-03-24 08:25:40 260 7

8K6015582453 11981042

-04-30 04:54:27 997 53

8K4529355854 60071878
                                                86494681 4.1.34 Android 13.707887

86494681 4.1.34 Android -6.091461

INR blue 968-72-1637 3 3.

35862658 2.4.39 iOS -18.910034

INR purple 102-10-5639 3 2.

78022360 2.1.9 iOS 1.215274

INR teal 866-83-4349 2 3.

94427067 3.1.2 Android -55.482224

43168062
                                                                                                                              ,
-70.1931
                                                                                                                                                     -10.182921
                                                                                                                                                                                                      2020-07-17 05:33:48
 04-30 04:54:27

8X4529355854 60071878

-02-16 04:28:55 547 17

8X9720088219 14327312

-01-20 21:17:42 259 33

-01:57532607 46407210

-027 21
                                                                                                                             -56.014904
                                                                                                                                                    35.152878
                                                                                                                                                                                                      2020-01-02 01:48:40
                                                                                                                                                                             104.324905
                                                                                                                                                                                                                                           2020
                                                                                                                                                                                                      2020-04-10 15:11:07
  2
−16.826145
                                                                                                                                                     7.6126013
                                                                                                                                                                             -156.42857
                                                                                                                                                                                                      2020-06-09 05:56:31
                                                                                                                                                                                                                                           2020
                                                                                                   2 2
-29.565327
                                                                                                                             64.84371
                                                                                                                                                     84.06811
                                                                                                                                                                              -49.820835
                                                                                                                                                                                                      2020-08-14 20:43:42
```

Clicking_stream table

hive> select *	from clicking_stream limit 10;					
OK 26564820	3.2.35 Android 16.4454865	99.902065	de545711-3914-4450-8c11-b17b8dabb5e1	fcba68aa-1231-11eb-adc1-0242ac120002	No	YesN
o Yes 31906387	2020-09-14 09:59:07 2.4.7 iOS -64.813749	-133.52704	de545711-3914-4450-8c11-b17b8dabb5e1	a95dd57b-779f-49db-819d-b6960483e554	No	No Y
es Yes 25713677 es No	2020-05-16 16:30:21 3.4.12 Android 89.943435 2020-02-09 00:52:13	127.313415	b328829e-17ae-11eb-adc1-0242ac120002	fcba68aa-1231-11eb-adc1-0242ac120002	No	No Y
83474293 es No	3.1.8 Android -69.93907 2020-06-17 10:42:50	-36.45167	e7bc5fb2-1231-11eb-adc1-0242ac120002	e1e99492-17ae-11eb-adc1-0242ac120002	Yes	No Y
63727807 es Yes	2.2.9 iOS 64.082108 2020-07-06 02:51:53	-81.822078	e7bc5fb2-1231-11eb-adc1-0242ac120002	fcba68aa-1231-11eb-adc1-0242ac120002	No	YesY
73737907 o Yes	4.3.19 Android -18.850508 2020-04-26 06:18:16	-116.358375	b328829e-17ae-11eb-adc1-0242ac120002	e1e99492-17ae-11eb-adc1-0242ac120002	No	YesN
36927433 o Yes	3.2.26 iOS -84.6857245 2020-02-06 10:21:18	-146.507678	de545711-3914-4450-8c11-b17b8dabb5e1	a95dd57b-779f-49db-819d-b6960483e554	Yes	YesN
12691783 o No	3.3.11 Android 54.3852925 2020-08-08 04:23:56	-37.411814	de545711-3914-4450-8c11-b17b8dabb5e1	e1e99492-17ae-11eb-adc1-0242ac120002	Yes	YesN
22635021 o No	4.4.36 iOS -31.8055 2020-08-02 00:33:50	150.65565	e7bc5fb2-1231-11eb-adc1-0242ac120002	a95dd57b-779f-49db-819d-b6960483e554	No	No N
23593546 es No	1.2.16 Android 8.8918475 2020-07-23 23:59:19	-83.929878	de545711-3914-4450-8c11-b17b8dabb5e1	e1e99492-17ae-11eb-adc1-0242ac120002	Yes	No Y
Time taken: 0. hive>	055 seconds, Fetched: 10 row(s)					

Datewise aggregate booking table