



Load Aggregated Bookings data into Hadoop

- 1. Pyspark file "datewise_bookings_aggregates_spark.py" created to aggregate total number of bookings by pickup date.
- 2. Executing this file to save aggregated file as .csv format into HDFS location

spark-submit --packages org.apache.spark:spark-sql-kafka-0-10_2.11:2.4.5 /home/hadoop/datewise_bookings_aggregates_spark.py

```
[hadoop@ip-172-31-45-126 ~]$ spark-submit --packages org.apache.spark:spark-sql-kafka-0-10_2.11:2.4.5 /home/hadoop/datewise_bookings_aggregates_spark.py
Ivy Default Cache set to: /home/hadoop/.ivy2/cache
The jars for the packages stored in: /home/hadoop/.ivy2/jars
:: loading settings :: url = jar:file:/usr/lib/spark/jars/ivy-2.4.0.jar!/org/apache/ivy/core/settings/ivysettings.xml

org.apache.spark*sqn-kafka-0-10_2.11 added as a dependency
:: resolving dependencies :: org.apache.spark*spark-submit-parent-deb30924-f33f-481a-860c-7e29d090972f;1.0

confs: [default]
```

- 3. Command to move the csv file to HDFS

 agg_df.coalesce(1).write.format('csv').mode('overwrite').save('/user/root/datewise_bookings_agg',header
 ='true')
- 4. Screenshot of the .csv file created in HDFS hadoop fs -ls /user/root/datewise_bookings_agg/

```
[hadoop@ip-172-31-45-126 ~]$ hadoop fs -ls /user/root/datewise_bookings_agg/
Found 2 items
-rw-r--r-- 1 hadoop hadoop 0 2023-05-22 16:18 /user/root/datewise_bookings_agg/_SUCCESS Go to Settings to -rw-r--r-- 1 hadoop hadoop 3776 2023-05-22 16:18 /user/root/datewise_bookings_agg/part-00000-e40bc997-e4ef-41e4-9bda-6bbc32bf47b7-c000.csv
[hadoop@ip-172-31-45-126 ~]$
```

5. Command and Screenshot of the aggregated file output in HDFS

hadoop fs -cat /user/root/datewise_bookings_agg/part-00000-e40bc997-e4ef-41e4-9bda-6bbc32bf47b7c000.csv | head -n 10

```
[hadoop@ip-172-31-45-126 ~]$ hadoop fs -cat /user/root/datewise_bookings_agg/part-00000-e40bc997-e4ef-4le4-9bda-6bbc32bf47b7-c000.csv | head -n 10 pickup date, count 2020-01-01, 1 2020-01-02, 3 2020-01-03, 2 2020-01-05, 2 2020-01-05, 2 2020-01-05, 2 2020-01-05, 2 2020-01-05, 2 2020-01-05, 2 2020-01-05, 2 2020-01-06, 3 2020-01-06, 3 2020-01-07, 2 2020-01-07, 2 2020-01-09, 4 2020-01-09, 2 Go to Settings t 2020-01-09, 2 [hadoop@ip-172-31-45-126 ~]$
```