

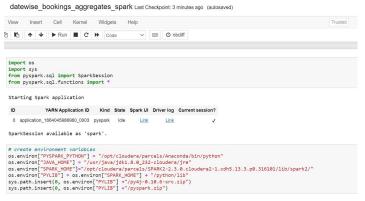


Load data from AWS RDS to Hadoop

<Command to run the python file>

Create a jupyter script and use pyspark kernel to execute it. Following screenshots show steps followed in the script to get date-wise aggregate data

Step1 - import modules and set environment variables



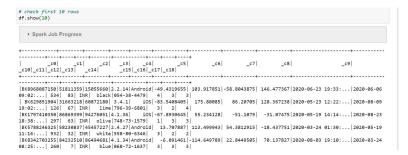
Step 2 Create spark session and read raw cab rides data



Step 3 Check count of rows, schema and first 10 rows



1000







```
# Check schema

df.printSchema()

root

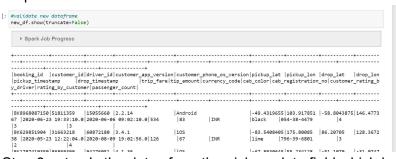
|--_c0: string (nullable = true)
|--_c1: string (nullable = true)
|--_c2: string (nullable = true)
|--_c3: string (nullable = true)
|--_c4: string (nullable = true)
|--_c5: string (nullable = true)
|--_c5: string (nullable = true)
|--_c6: string (nullable = true)
|--_c7: string (nullable = true)
|--_c9: string (nullable = true)
|--_c9: string (nullable = true)
|--_c10: string (nullable = true)
|--_c11: string (nullable = true)
|--_c12: string (nullable = true)
|--_c13: string (nullable = true)
|--_c14: string (nullable = true)
|--_c15: string (nullable = true)
|--_c16: string (nullable = true)
```

Step 4 rename columns and create new data frame

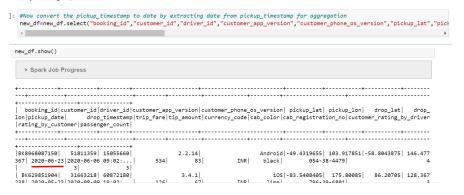
```
# Rename columns for better understanding and create new dataframe with these columns

new_col = ["booking_id", "customer_id", "driver_id", "customer_app_version", "customer_phone_os_version", "pickup_lat", "pickup_lon", "customer_app_version", "customer_phone_os_version", "pickup_lat", "pickup_lon", "customer_app_version", "customer_app_version", "customer_phone_os_version", "pickup_lat", "pickup_lon", "customer_app_version", "custom
```

Step 5 check new dataframe value



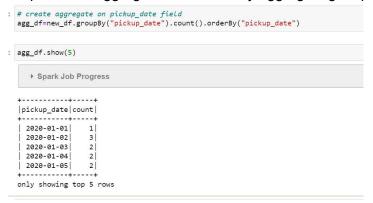
Step 6 get only the dates from the pickup_date field which have timestamps as well.







Step7 create aggregate data frame by aggregating on pickup date field



Step 8 Write this aggregate dataframe as CSV to hadoop



<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')



<Screenshot of the file in HDFS>