Load data from AWS RDS to Hadoop

1.Command to run the python file
spark-submit --packages org.apache.spark:spark-sql-kafka-0-10_2.11:2.4.5 datewise_bookings_aggregates_spark.py

2. Steps to create the datewise bookings aggregate

a. Import required libraries

```
from pyspark.sql import SparkSession
from pyspark.sql.functions import *
```

b. Create spark session

```
spark=SparkSession.builder.appName("datewise_bookings_aggregates_spark").master("local")
.getOrCreate()
```

c.Read data from HDFS

```
df=spark.read.csv("/user/root/cab_rides/part-m-00000")
```

d. Rename the columns

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

"drop_lon","pickup_timestamp","drop_timestamp","trip_fare","tip_amount","currency_code","cab
_color","cab_registration_no","customer_rating_by_driver",
        "rating_by_customer","passenger_count"]


new_df = df.toDF(*new_col)
```

e. Convert pickup_timestamp to date by extracting date from pickup_timestamp for aggregation

```
new_df=new_df.select("booking_id","customer_id","driver_id","customer_app_version","custom
er_phone_os_version","pickup_lat","pickup_lon","drop_lat",
```

"drop_lon",to_date(col('pickup_timestamp')).alias('pickup_date').cast("date"),"drop_timestamp","trip_fare","tip_amount","currency_code","cab_color","cab_registration_no","customer_rating_by_driver",
"rating_by_customer","passenger_count")

f. Aggregate data on pickup_date
agg_df=new_df.groupBy("pickup_date").count().orderBy("pickup_date")

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')

Screenshot of the file in HDFS