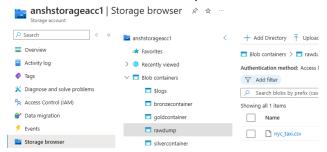
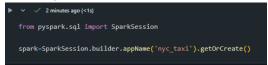
Ansh Ranjan Databricks Case Study Exercise 2 – Data Ingestion

TASK 1: Load a dataset into your Databricks using Spark

1. Our data resides in a 'rawdump' named container in our storage account.



2. Creating a spark session



3. Now we have to mount our data point to our workspace.



You can get your access key by going to storage account > Security + networking >

Access Keys



4. Reading data into a dataframe



TASK 2: Inspect the data

1. Displaying the data



2. Dataframe schema

```
df_bronze.printSchema()

root

|-- id: string (nullable = true)
|-- vendor_id: integer (nullable = true)
|-- pickup_datetime: timestamp (nullable = true)
|-- dropoff_datetime: timestamp (nullable = true)
|-- pickup_longitude: double (nullable = true)
|-- pickup_longitude: double (nullable = true)
|-- dropoff_longitude: double (nullable = true)
|-- dropoff_latitude: double (nullable = true)
|-- store_and_fwd_flag: string (nullable = true)
|-- trip_duration: integer (nullable = true)
```

3. Number of rows

TASK 3: Perform data cleaning

1. Dropping null values from the df

```
df_bronze.dropna()

DataFrame[id: string, vendor_id: int, post double, dropoff_latitude: double, store
```

Now there should not be any null values

2. As we saw earlier, our pickup and dropoff columns are of double data type. We need to convert them into standard datetime format

3. Checking for any rows where dropoff time might be before pickup time for data quality