

Tech Challenge

On the dataset available at <https://www.nyc.gov/site/tlc/about/tlc-trip-record-data.page> (as shown below), using Spark (with Scala or PySpark), calculate the revenues as the SUM of the “total amount” field for every single day (tpep_pickup_datetime field) and VendorID.

The challenge is to pivot the VendorID column in VendorIDs so that each Revenue/day is sorted Descending and shown underneath its corresponding VendorID. The Output column headers should be Vendor01, Vendor02, Vendor05, and Vendor06, respectively.

Note: Print **Null Values** where there are No more revenues corresponding to a Revenue/day

The screenshot shows the NYC TLC Trip Record Data page. At the top, there is a notification about a new column being added to the data files. Below this, there are two buttons: "Expand All" and "Collapse All". A dropdown menu is set to "2022". The page displays a list of data files for each month of 2022, organized into two columns. The files are listed as follows:

Month	Files
January	<ul style="list-style-type: none">Yellow Taxi Trip Records (PARQUET)Green Taxi Trip Records (PARQUET)For-Hire Vehicle Trip Records (PARQUET)High Volume For-Hire Vehicle Trip Records (PARQUET)
February	<ul style="list-style-type: none">Yellow Taxi Trip Records (PARQUET)Green Taxi Trip Records (PARQUET)For-Hire Vehicle Trip Records (PARQUET)High Volume For-Hire Vehicle Trip Records (PARQUET)
March	<ul style="list-style-type: none">Yellow Taxi Trip Records (PARQUET)Green Taxi Trip Records (PARQUET)For-Hire Vehicle Trip Records (PARQUET)High Volume For-Hire Vehicle Trip Records (PARQUET)
April	<ul style="list-style-type: none">Yellow Taxi Trip Records (PARQUET)Green Taxi Trip Records (PARQUET)
July	<ul style="list-style-type: none">Yellow Taxi Trip Records (PARQUET)Green Taxi Trip Records (PARQUET)For-Hire Vehicle Trip Records (PARQUET)High Volume For-Hire Vehicle Trip Records (PARQUET)
August	<ul style="list-style-type: none">Yellow Taxi Trip Records (PARQUET)Green Taxi Trip Records (PARQUET)For-Hire Vehicle Trip Records (PARQUET)High Volume For-Hire Vehicle Trip Records (PARQUET)
September	<ul style="list-style-type: none">Yellow Taxi Trip Records (PARQUET)Green Taxi Trip Records (PARQUET)For-Hire Vehicle Trip Records (PARQUET)High Volume For-Hire Vehicle Trip Records (PARQUET)
October	<ul style="list-style-type: none">Yellow Taxi Trip Records (PARQUET)Green Taxi Trip Records (PARQUET)

A red arrow points to the "April" section of the list.