Perform at least 5 data transformation and/or cleansing steps to your API data. Examples: Replace Headers Format data into a more readable format Identify outliers and bad data Find duplicates Fix casing or inconsistent values Conduct Fuzzy Matching Add data

earthquakes (1).csv

```
#replace headers

#load pd
import pandas as pd

#earthquakes (1).csv
df = pd.read_csv('earthquakes (1).csv')

#new headers
new_headers = ['Mag', 'MagType', 'Time', 'Place', 'Tsunami', 'Parsed_Place']
df.columns = new_headers
df.to_csv('earthquakes (2).csv', index=False)
```

new data added.

```
import csv

# use earthquakes (2).csv, not used for actual data
csv_file = 'earthquakes (2).csv'
column_to_check = 'Mag'

#unique values
unique_values = set()

#duplicate values list
duplicate_values = []
```

```
#open and read csv
with open(csv_file, mode='r') as file:
    csv_reader = csv.DictReader(file)
    for row in csv_reader:
        value = row[column_to_check]
        if value in unique_values:
            duplicate_values.append(value)
        else:
            unique_values.add(value)
print('duplicate values: ', column_to_check, 'column:', duplicate_values)
```

duplicate values: Mag column: ['0.5', '2.0', '0.92', '1.7', '1.7', '1.9', '-0.1', '2.2', '0.2', '2.1', '0.86', '2.0', '4.6', '1.14', '0.7', '1.7', '0.5', '0.1', '1.7', '1.1', '1.4', '1.4', '1.8', '2.0', '4.7', '4.6', '1.9', '0.9', '1.3', '1.8', '1.6', '1.44', '2.2', '1.1', '1.9', '0.9', '0.1', '2.3', '2.16', '2.01', '0.83', '1.6', '2.6 1', '2.2', '0.62', '1.9', '2.0', '0.72', '1.7', '1.5', '1.57', '2.2', '1.4', '1.83', '2.1', '0.73', '1.6', '0.61', '0.1', '1.38', '2.2', '1.1', '0.75', '1.4', '1.6', '2. 3', '1.2', '0.35', '1.3', '0.6', '1.7', '1.1', '4.5', '0.5', '2.1', '0.67', '1.9', '2.16', '1.9', '2.3', '0.7', '0.4', '3.0', '1.9', '-0.1', '0.9', '-0.1', '2.4', '1. 9', '1.9', '0.5', '2.24', '1.8', '1.6', '2.4', '2.0', '1.4', '1.6', '0.92', '1.8', '2.5', '5.2', '1.5', '2.1', '1.6', '1.9', '2.4', '1.14', '0.87', '0.67', '0.7', '2. 9', '2.3', '1.1', '4.9', '1.9', '2.0', '1.9', '1.4', '1.6', '1.9', '0.7', '1.6', '2. 8', '5.7', '0.87', '1.7', '0.5', '0.1', '2.9', '1.9', '3.0', '1.8', '1.2', '1.8', '1.6', '1.8', '1.6', '0.82', '1.8', '0.44', '0.55', '0.68', '0.91', '2.24', '2.5', '0.5 4', '2.3', '0.6', '2.0', '1.6', '2.1', '1.52', '2.36', '1.85', '1.5', '4.7', '2.9', '1.9', '0.55', '1.2', '1.98', '2.81', '4.6', '1.5', '1.24', '0.8', '0.8', '1.64', '1. 72', '0.29', '0.7', '1.1', '1.54', '1.7', '1.8', '0.81', '2.05', '3.3', '2.2', '1.1 2', '0.5', '0.5', '2.2', '1.7', '1.6', '1.3', '0.7', '1.6', '1.8', '1.84', '0.5', '1. 28', '0.62', '4.6', '2.5', '1.5', '0.56', '1.45', '1.44', '0.92', '2.0', '4.5', '1. , '0.54', '1.6', '1.7', '0.99', '1.2', '3.2', '2.5', '0.33', '1.7', '1.36', '0.1', '5.1', '0.57', '0.4', '0.4', '0.87', '1.0', '0.69', '0.81', '1.9', '0.9', '0.88', '1. 8', '1.8', '1.0', '1.7', '0.8', '1.7', '1.6', '1.4', '1.3', '0.88', '0.99', '1.0', '0.76', '1.3', '4.7', '1.35', '0.32', '1.8', '1.3', '1.6', '2.03', '1.22', '1.6', '0. 0', '2.84', '2.3', '1.9', '3.0', '-0.12', '4.5', '1.5', '2.2', '2.83', '1.08', '1.1', '3.0', '0.52', '1.9', '2.43', '4.5', '1.43', '1.38', '0.0', '0.54', '0.91', '0.5', '1.6', '1.35', '0.55', '0.44', '5.2', '1.0', '4.5', '0.6', '0.36', '0.5', '0.63', '1. 9', '1.4', '0.83', '1.7', '2.0', '2.3', '1.5', '0.54', '0.8', '1.32', '1.11', '1.6', '1.7', '1.31', '1.1', '4.4', '1.8', '1.88', '0.56', '2.7', '0.1', '1.0', '1.7', '0. 1', '1.79', '1.9', '0.9', '1.1', '1.57', '2.0', '4.4', '0.4', '2.9', '1.46', '4.5', '1.6', '1.3', '1.24', '0.49', '0.19', '0.92', '0.59', '1.01', '2.0', '0.49', '1.3', '1.6', '0.7', '1.24', '2.2', '1.6', '1.5', '1.1', '1.35', '1.4', '2.2', '0.87', '1. 1', '1.8', '0.9', '1.71', '1.29', '1.0', '1.7', '2.28', '-0.14', '1.2', '2.6', '0.1 1', '0.64', '1.71', '1.8', '1.2', '0.92', '1.15', '1.4', '1.71', '1.71', '1.8', '1.
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```
'0.85', '1.0', '1.3', '0.44', '0.7', '0.22', '2.01', '4.2', '1.1', '0.47', '1.83', '1.0', '1.42', '1.3', '5.1', '-0.27', '2.44', '2.1', '4.8', '1.1', '3.27', '2.5', '1.5', '2.0', '2.74', '3.08', '2.64', '1.1', '4.4', '2.81', '4.3', '0.4', '0.6', '1.06', '0.51', '1.82', '0.62', '1.0', '2.4', '1.1', '0.66']
```

```
In [11]: #remove duplicates
         import csv
         #earthquakes (2).csv
         input_csv_file = 'earthquakes (2).csv'
         output_csv_file = 'earthquakes (2).csv'
         #seen rows
         seen_rows = set()
         #open files
         with open(input_csv_file, mode='r') as infile, open(output_csv_file, mode='w', newline
             csv reader = csv.reader(infile)
             csv_writer = csv.writer(outfile)
             #read first row
             header = next(csv_reader, None)
             if header:
                 csv_writer.writerow(header)
             # iterate rows
             for row in csv_reader:
                 #change row to a tuple to make it hashable
                 row_tuple = tuple(row)
                 #check if the row is not seen already
                 if row tuple not in seen rows:
                     seen_rows.add(row_tuple)
                     csv_writer.writerow(row)
         print('duplicates removed. unique rows saved to', output_csv_file)
```

Duplicates removed. Unique rows saved to earthquakes (2).csv

```
In [ ]:
```