```
In [6]:
        import pandas as pd
        import numpy as np
        import matplotlib.pyplot as pit
In [7]: dataset = pd.read_csv("chipotle_stores.csv")
In [8]:
        print(dataset)
                      state
                                      location
        0
                    Alabama
                                        Auburn
        1
                    Alabama
                                    Birmingham
                    Alabama
                                    Birmingham
        2
        3
                    Alabama
                                    Birmingham
        4
                    Alabama
                                       Cullman
                                           . . .
        2624
                  Wisconsin
                             Pleasant Prairie
        2625
                  Wisconsin
                                     Wauwatosa
               North Dakota
        2626
                                         Fargo
        2627
               North Dakota
                                         Fargo
        2628
                    Wyoming
                                      Cheyenne
                                                        address
                                                                  latitude
                                                                              longitude
        0
                       346 W Magnolia Ave Auburn, AL 36832 US
                                                                            -85.487328
                                                                 32.606813
                        300 20th St S Birmingham, AL 35233 US
        1
                                                                 33.509721
                                                                             -86.802756
        2
                       3220 Morrow Rd Birmingham, AL 35235 US
                                                                 33.595581
                                                                             -86.647437
        3
                     4719 Highway 280 Birmingham, AL 35242 US
                                                                 33.422582
                                                                             -86.698279
                    1821 Cherokee Ave SW Cullman, AL 35055 US
                                                                 34.154134
                                                                             -86.841220
        4
         . . .
                                                                       . . .
                                                                                    . . .
              9370 76th St # B Pleasant Prairie, WI 53158 US
                                                                 42.565892
                                                                            -87.921048
        2624
               2711 N Mayfair Rd Ste A Wauwatosa, WI 53222 US
        2625
                                                                 43.067723
                                                                            -88.048222
        2626
                           1204 19th Ave N Fargo, ND 58102 US
                                                                 46.904247
                                                                             -96.796618
                            1680 45th St S Fargo, ND 58103 US
        2627
                                                                 46.855337
                                                                            -96.861416
                   1508 Dell Range Blvd Cheyenne, WY 82009 US
        2628
                                                                 41.160718 -104.805699
```

[2629 rows x 5 columns]

In [9]: dataset.head()

Out[9]:

	state	location	address	latitude	longitude
0	Alabama	Auburn	346 W Magnolia Ave Auburn, AL 36832 US	32.606813	-85.487328
1	Alabama	Birmingham	300 20th St S Birmingham, AL 35233 US	33.509721	-86.802756
2	Alabama	Birmingham	3220 Morrow Rd Birmingham, AL 35235 US	33.595581	-86.647437
3	Alabama	Birmingham	4719 Highway 280 Birmingham, AL 35242 US	33.422582	-86.698279
4	Alabama	Cullman	1821 Cherokee Ave SW Cullman, Al. 35055 US	34 154134	-86 841220

```
In [10]: dataset.info()
```

<class 'pandas.core.frame.DataFrame'> RangeIndex: 2629 entries, 0 to 2628 Data columns (total 5 columns):

Column Non-Null Count Dtype 0 state 2629 non-null object location 2629 non-null object 1 2 address 2629 non-null object 3 latitude 2629 non-null float64 4 longitude 2629 non-null float64

dtypes: float64(2), object(3)

memory usage: 102.8+ KB

In [12]: dataset.describe()

Out[12]:

	latitude	longitude
count	2629.000000	2629.000000
mean	37.515979	-92.490287
std	4.749089	16.578616
min	25.479009	-124.183611
25%	33.876535	-105.095673
50%	38.898082	-87.180851
75%	40.813125	-78.879958
max	48.785206	-68.753750

In [11]: | data.describe()

Traceback (most recent call last)

~\AppData\Local\Temp/ipykernel_7456/3175101911.py in <module>

----> 1 data.describe()

NameError: name 'data' is not defined

In [13]: dataset.isnull()

Out[13]:

	state	location	address	latitude	longitude
0	False	False	False	False	False
1	False	False	False	False	False
2	False	False	False	False	False
3	False	False	False	False	False
4	False	False	False	False	False
2624	False	False	False	False	False
2625	False	False	False	False	False
2626	False	False	False	False	False
2627	False	False	False	False	False
2628	False	False	False	False	False

2629 rows × 5 columns

In [14]: dataset.notnull()

Out[14]:

	state	location	address	latitude	longitude
0	True	True	True	True	True
1	True	True	True	True	True
2	True	True	True	True	True
3	True	True	True	True	True
4	True	True	True	True	True
2624	True	True	True	True	True
2625	True	True	True	True	True
2626	True	True	True	True	True
2627	True	True	True	True	True
2628	True	True	True	True	True

2629 rows × 5 columns

```
In [15]:
         dataset.dtypes
Out[15]: state
                        object
         location
                        object
                        object
         address
         latitude
                       float64
                       float64
         longitude
         dtype: object
         dataset.dropna
In [16]:
Out[16]: <bound method DataFrame.dropna of
                                                                          location \
                                                           state
                     Alabama
                                         Auburn
                                     Birmingham
         1
                     Alabama
         2
                     Alabama
                                     Birmingham
         3
                     Alabama
                                     Birmingham
         4
                     Alabama
                                        Cullman
                   Wisconsin
                              Pleasant Prairie
         2624
          2625
                   Wisconsin
                                      Wauwatosa
          2626
                North Dakota
                                          Fargo
                North Dakota
                                          Fargo
         2627
          2628
                     Wyoming
                                       Cheyenne
                                                                   latitude
                                                                               longitude
                                                         address
                        346 W Magnolia Ave Auburn, AL 36832 US
         0
                                                                  32.606813
                                                                              -85.487328
                         300 20th St S Birmingham, AL 35233 US
         1
                                                                              -86.802756
                                                                  33.509721
          2
                        3220 Morrow Rd Birmingham, AL 35235 US
                                                                  33.595581
                                                                              -86.647437
                      4719 Highway 280 Birmingham, AL 35242 US
          3
                                                                  33.422582
                                                                              -86.698279
                     1821 Cherokee Ave SW Cullman, AL 35055 US
         4
                                                                  34.154134
                                                                              -86.841220
                                                                         . . .
                9370 76th St # B Pleasant Prairie, WI 53158 US
          2624
                                                                  42.565892
                                                                              -87.921048
                2711 N Mayfair Rd Ste A Wauwatosa, WI 53222 US
          2625
                                                                  43.067723
                                                                              -88.048222
          2626
                            1204 19th Ave N Fargo, ND 58102 US
                                                                  46.904247
                                                                              -96.796618
         2627
                             1680 45th St S Fargo, ND 58103 US
                                                                  46.855337
                                                                              -96.861416
                    1508 Dell Range Blvd Cheyenne, WY 82009 US
         2628
                                                                  41.160718 -104.805699
          [2629 rows x 5 columns]>
```

In []:

```
dataset.astype
In [17]:
Out[17]: <bound method NDFrame.astype of
                                                                        location \
                                                         state
                     Alabama
                                         Auburn
         1
                     Alabama
                                     Birmingham
         2
                     Alabama
                                     Birmingham
         3
                     Alabama
                                     Birmingham
                     Alabama
                                        Cullman
         4
                   Wisconsin
                              Pleasant Prairie
         2624
         2625
                   Wisconsin
                                     Wauwatosa
                North Dakota
                                          Fargo
         2626
          2627
                North Dakota
                                          Fargo
          2628
                     Wyoming
                                       Cheyenne
                                                                              longitude
                                                         address
                                                                   latitude
         0
                        346 W Magnolia Ave Auburn, AL 36832 US
                                                                  32.606813
                                                                             -85.487328
         1
                         300 20th St S Birmingham, AL 35233 US
                                                                  33.509721
                                                                             -86.802756
         2
                        3220 Morrow Rd Birmingham, AL 35235 US
                                                                  33.595581
                                                                             -86.647437
         3
                      4719 Highway 280 Birmingham, AL 35242 US
                                                                  33.422582
                                                                             -86.698279
                     1821 Cherokee Ave SW Cullman, AL 35055 US
         4
                                                                  34.154134
                                                                             -86.841220
          . . .
                                                                        . . .
                9370 76th St # B Pleasant Prairie, WI 53158 US
         2624
                                                                  42.565892
                                                                             -87.921048
                2711 N Mayfair Rd Ste A Wauwatosa, WI 53222 US
         2625
                                                                  43.067723
                                                                             -88.048222
         2626
                            1204 19th Ave N Fargo, ND 58102 US
                                                                  46.904247
                                                                             -96.796618
                             1680 45th St S Fargo, ND 58103 US
         2627
                                                                  46.855337
                                                                             -96.861416
                    1508 Dell Range Blvd Cheyenne, WY 82009 US
         2628
                                                                  41.160718 -104.805699
         [2629 rows x 5 columns]>
```