## FileNotFoundError: File b'user detals.csv' does not exist

In [25]: 'user details.csv' In [25]: In [26]: Out[**26**]: <bound method DataFrame.info of</pre> Sl no Date Time Crop type 01/01/2015 G.Nut 0 1 01/01/2015 1 01/01/2015 2 G.Nut 01/01/2015 2 3 G.Nut 01/01/2015 01/01/2015 3 4 01/01/2015 Horsegram 01/01/2015 4 5 01/01/2015 Horsegram 01/01/2015 5 7 01/01/2015 G.Nut 01/01/2015 G.Nut 6 8 01/01/2015 01/01/2015 7 9 01/01/2015 G.Nut 01/01/2015 8 01/01/2015 G.Nut 01/01/2015 10 9 G.Nut 11 01/01/2015 01/01/2015 . . . 10 12 01/01/2015 G.Nut 01/01/2015 . . . G.Nut 11 13 01/01/2015 01/01/2015 . . . 12 G.Nut 14 01/01/2015 01/01/2015 01/01/2015 13 15 G.Nut 01/01/2015 . . . 14 01/01/2015 G.Nut 01/01/2015 16 G.Nut 15 17 01/01/2015 01/01/2015 16 18 01/01/2015 G.Nut 01/01/2015 17 19 01/01/2015 G.Nut 01/01/2015 18 20 01/01/2015 G.Nut 01/01/2015 19 21 G.Nut 01/01/2015 01/01/2015 20 22 01/01/2015 G.Nut 01/01/2015 . . . 21 23 01/01/2015 G.Nut 01/01/2015 22 24 01/01/2015 G.Nut 01/01/2015 . . . 23 25 G.Nut 01/01/2015 01/01/2015 24 G.Nut 26 01/01/2015 01/01/2015 . . . 25 27 01/01/2015 G.Nut 01/01/2015 26 28 01/01/2015 G.Nut 01/01/2015 . . . G.Nut 27 29 01/01/2015 01/01/2015 28 47 01/01/2015 G.Nut 01/01/2015 . . . 29 48 01/01/2015 G.Nut 01/01/2015 . . . . . . . . . . . . 4785 304 01/01/2015 Paddy 01/01/2015 . . . Maize 01/01/2015 4786 305 01/01/2015 01/01/2015 Oil Palm 4787 306 01/01/2015 . . . 01/01/2015 Oil Palm 4788 307 01/01/2015 . . . Oil Palm+Banana 4789 308 01/01/2015 01/01/2015 . . . 4790 309 01/01/2015 Lime 01/01/2015 . . .

```
4791
        310
              01/01/2015
                                                          01/01/2015
                                                   Lime
                              . . .
        311
4792
              01/01/2015
                                                 Sandal
                                                          01/01/2015
4793
        312
              01/01/2015
                                                  Maize
                                                          01/01/2015
4794
        313
              01/01/2015
                                               Oil Palm
                                                          01/01/2015
4795
        314
              01/01/2015
                                               Oil Palm
                                                          01/01/2015
              01/01/2015
                                           Cashew+Maize
4796
        315
                                                          01/01/2015
4797
        316
              01/01/2015
                                                   Lime
                                                          01/01/2015
4798
        317
              01/01/2015
                                               Oil Palm
                                                          01/01/2015
4799
                                               Oil Palm
        318
              01/01/2015
                                                          01/01/2015
                              . . .
4800
        319
              01/01/2015
                                                  Maize
                                                          01/01/2015
                              . . .
4801
                                                   Cane
                                                          01/01/2015
        320
              01/01/2015
                              . . .
4802
        321
                                                     NaN
                                                          01/01/2015
              01/01/2015
              01/01/2015
4803
        322
                                               Oil Palm
                                                          01/01/2015
                              . . .
                                                          01/01/2015
4804
        323
              01/01/2015
                                                 Banana
                              . . .
                                               Oil Palm
4805
        324
              01/01/2015
                                                          01/01/2015
                              . . .
4806
        325
              01/01/2015
                                                Brinjal
                                                          01/01/2015
                              . . .
4807
        326
              01/01/2015
                                                   Lime
                                                          01/01/2015
                              . . .
4808
        327
              01/01/2015
                                                   Cane
                                                          01/01/2015
              01/01/2015
                                                          01/01/2015
4809
        328
                                                  Maize
                                               Oil Palm
4810
        329
              01/01/2015
                                                          01/01/2015
4811
        330
              01/01/2015
                                                  Maize
                                                          01/01/2015
4812
              01/01/2015
                                                 Cashew
        331
                                                          01/01/2015
                              . . .
4813
        332
              01/01/2015
                                                  Maize
                                                          01/01/2015
                              . . .
4814
        333
              01/01/2015
                                                  Paddy
                                                          01/01/2015
                              . . .
[4815 rows x 13 columns]>
In [27]:
Out[27]:
Index(['Sl no', 'Date', 'Farmer No', 'Macro/Micro nutrient',
'Farmer Name',
       __
'District', 'Mandal', 'Village', 'Survey_No',
'Soil type',
       'Fathers Name', 'Crop type', 'Time'],
      dtype='object')
In [28]:
Out[28]:
Sl no
                           int64
                          object
Date
Farmer No
                          object
Macro/Micro nutrient
                          object
Farmer Name
                          object
District
                          object
Mandal
                          object
Village
                          object
Survey No
                         object
Soil type
                          object
Fathers Name
                          object
```

```
Crop type
                          object
                         object
Time
dtype: object
In [29]:
Out[29]:
   Sl no
                 Date Farmer No
                                              Fathers Name
                                      . . .
Crop type
                  Time
          01/01/2015
                            1910
                                                        NaN
       1
                                      . . .
G.Nut
       01/01/2015
          01/01/2015
                            1911
                                                        NaN
1
                                      . . .
G.Nut
       01/01/2015
2
          01/01/2015
                            1912
                                                        NaN
                                      . . .
G.Nut
       01/01/2015
3
                                                        NaN
          01/01/2015
                            1913
                                      . . .
Horsegram
           01/01/2015
          01/01/2015
                            1914
                                                        NaN
       5
                                      . . .
Horsegram
           01/01/2015
[5 rows x 13 columns]
                                            'user details.csv'
In [30]:
                          'user details.csv'
In [31]:
In [32]:
Out[32]:
<bound method DataFrame.info of</pre>
                                        Sl no
                                                      Date
                  Time
Crop type
              01/01/2015
                                                  G.Nut
                                                          01/01/2015
0
          1
1
          2
              01/01/2015
                                                  G.Nut
                                                          01/01/2015
2
          3
              01/01/2015
                                                  G.Nut
                                                          01/01/2015
3
          4
              01/01/2015
                                              Horsegram
                                                          01/01/2015
                                              Horsegram
4
          5
              01/01/2015
                                                          01/01/2015
5
          7
              01/01/2015
                                                  G.Nut
                                                          01/01/2015
                              . . .
                                                  G.Nut
6
          8
              01/01/2015
                                                          01/01/2015
7
          9
              01/01/2015
                                                  G.Nut
                                                          01/01/2015
                              . . .
8
                                                  G.Nut
         10
              01/01/2015
                                                          01/01/2015
9
         11
              01/01/2015
                                                  G.Nut
                                                          01/01/2015
                                                  G.Nut
10
         12
              01/01/2015
                                                          01/01/2015
11
         13
              01/01/2015
                                                  G.Nut
                                                          01/01/2015
         14
12
              01/01/2015
                                                  G.Nut
                                                          01/01/2015
                              . . .
13
         15
              01/01/2015
                                                  G.Nut
                                                          01/01/2015
14
         16
                                                  G.Nut
              01/01/2015
                                                          01/01/2015
15
         17
                                                  G.Nut
              01/01/2015
                                                          01/01/2015
16
         18
              01/01/2015
                                                  G.Nut
                                                          01/01/2015
                              . . .
17
              01/01/2015
         19
                                                  G.Nut
                                                          01/01/2015
```

```
01/01/2015
                                                     G.Nut
18
          20
                                                             01/01/2015
19
          21
              01/01/2015
                                                     G.Nut
                                                             01/01/2015
20
          22
              01/01/2015
                                                     G.Nut
                                                             01/01/2015
21
          23
                                                     G.Nut
              01/01/2015
                                                             01/01/2015
          24
22
                                                     G.Nut
              01/01/2015
                                                             01/01/2015
23
          25
              01/01/2015
                                                     G.Nut
                                                             01/01/2015
24
          26
                                                     G.Nut
              01/01/2015
                                                             01/01/2015
25
          27
              01/01/2015
                                                     G.Nut
                                                             01/01/2015
          28
                                                     G.Nut
26
              01/01/2015
                                                             01/01/2015
27
          29
                                                     G.Nut
              01/01/2015
                                                             01/01/2015
          47
                                                     G.Nut
28
              01/01/2015
                                                             01/01/2015
                                . . .
29
          48
                                                     G.Nut
              01/01/2015
                                                             01/01/2015
. . .
         . . .
              01/01/2015
                                                             01/01/2015
4785
         304
                                                     Paddy
4786
         305
              01/01/2015
                                                     Maize
                                                             01/01/2015
4787
         306
                                                 Oil Palm
              01/01/2015
                                                             01/01/2015
4788
                                                 Oil Palm
         307
              01/01/2015
                                                             01/01/2015
4789
         308
              01/01/2015
                                         Oil Palm+Banana
                                                             01/01/2015
                                . . .
4790
         309
              01/01/2015
                                                      Lime
                                                             01/01/2015
                                . . .
                                                      Lime
4791
         310
              01/01/2015
                                                             01/01/2015
4792
         311
                                                   Sandal
              01/01/2015
                                                             01/01/2015
4793
         312
              01/01/2015
                                                     Maize
                                                             01/01/2015
4794
         313
                                                 Oil Palm
              01/01/2015
                                                             01/01/2015
4795
                                                 Oil Palm
         314
              01/01/2015
                                                             01/01/2015
                                . . .
4796
         315
              01/01/2015
                                             Cashew+Maize
                                                             01/01/2015
                                                      Lime
4797
         316
              01/01/2015
                                                             01/01/2015
                                . . .
                                                 Oil Palm
4798
         317
              01/01/2015
                                                             01/01/2015
4799
         318
              01/01/2015
                                                 Oil Palm
                                                             01/01/2015
4800
         319
              01/01/2015
                                                    Maize
                                                             01/01/2015
4801
              01/01/2015
                                                      Cane
                                                             01/01/2015
         320
                                                       NaN
4802
         321
              01/01/2015
                                                             01/01/2015
                                                 Oil Palm
4803
         322
              01/01/2015
                                                             01/01/2015
4804
         323
              01/01/2015
                                                    Banana
                                                             01/01/2015
4805
         324
                                                 Oil Palm
              01/01/2015
                                                             01/01/2015
                                . . .
4806
         325
              01/01/2015
                                                  Brinjal
                                                             01/01/2015
4807
         326
              01/01/2015
                                                      Lime
                                                             01/01/2015
4808
         327
              01/01/2015
                                                      Cane
                                                             01/01/2015
                                . . .
4809
         328
                                                     Maize
              01/01/2015
                                                             01/01/2015
4810
         329
              01/01/2015
                                                 Oil Palm
                                                             01/01/2015
4811
         330
              01/01/2015
                                                     Maize
                                                             01/01/2015
4812
         331
              01/01/2015
                                                   Cashew
                                                             01/01/2015
4813
         332
              01/01/2015
                                                    Maize
                                                             01/01/2015
                                . . .
4814
         333
              01/01/2015
                                                     Paddy
                                                             01/01/2015
                                . . .
[4815 rows x 13 columns]>
In [33]:
Out [33]:
Index(['Sl no', 'Date', 'Farmer No', 'Macro/Micro nutrient',
```

```
'Farmer Name',
       __nom_,
'District', 'Mandal', 'Village', 'Survey_No',
'Soil type',
       'Fathers Name', 'Crop type', 'Time'],
      dtype='object')
In [34]:
         .
Out[34]:
Sl no
                         int64
                       object
Date
Farmer No
                        object
Macro/Micro nutrient
                       object
Farmer Name
                        object
District
                        object
Mandal
                        object
Village
                        object
Survey No
                       object
Soil type
                       object
Fathers Name
                       object
Crop type
                       object
Time
                       object
dtype: object
In [35]: .
Out[35]:
              Date Farmer No
   Sl no
                                   ... Fathers Name
Crop_type
                Time
    1 01/01/2015
                          1910
                                                   NaN
                                   . . .
G.Nut 01/01/2015
1
     2 01/01/2015
                          1911
                                                   NaN
                                   . . .
G.Nut 01/01/2015
     3 01/01/2015
                          1912
                                                   NaN
2
                                   . . .
G.Nut 01/01/2015
      4 01/01/2015
                                                   NaN
3
                          1913
Horsegram 01/01/2015
       5 01/01/2015
                         1914
                                                   NaN
                                   . . .
Horsegram 01/01/2015
[5 rows x 13 columns]
In [36]: import
                     as
  ...: import
                     as
    ...: import
                                 as
In [37]: = . 'new complete details ap.csv'
=
In [38]:
Out[38]:
```

		d DataFrame.	info of	Sl_no [	Date
Crop_ty	-	Time		C. N.	01/01/2015
0	1	01/01/2015		G.Nut	
1	2	01/01/2015		G. Nu	
2	3	01/01/2015		G.Nu	
3	4	01/01/2015		Horsegran	n 01/01/2015
4	5	01/01/2015		Horsegrar	n 01/01/2015
5	7	01/01/2015		G.Nu <sup>+</sup>	t 01/01/2015
6	8	01/01/2015		G.Nu <sup>+</sup>	01/01/2015
7	9	01/01/2015		G.Nu <sup>+</sup>	01/01/2015
8	10	01/01/2015		G.Nu	
9	11	01/01/2015		G.Nu	
10	12	01/01/2015		G. Nu	
11	13	01/01/2015		G. Nut	
12	14	01/01/2015		G.Nu	
13	15	01/01/2015	• • •	G . Nu	
14	16	01/01/2015		G.Nu <sup>†</sup>	
			• • •		
15	17	01/01/2015		G. Nut	
16	18	01/01/2015		G.Nut	
17	19	01/01/2015		G.Nu	
18	20	01/01/2015		G. Nut	
19	21	01/01/2015		G.Nut	
20	22	01/01/2015		G.Nu <sup>1</sup>	t 01/01/2015
21	23	01/01/2015		G.Nu <sup>1</sup>	t 01/01/2015
22	24	01/01/2015		G.Nu <sup>+</sup>	t 01/01/2015
23	25	01/01/2015		G.Nu <sup>+</sup>	t 01/01/2015
24	26	01/01/2015		G.Nu <sup>+</sup>	
25	27	01/01/2015		G.Nu	
26	28	01/01/2015		G.Nu	= = =
27	29	01/01/2015		G. Nut	
28	47	01/01/2015		G . Nu	
29	48	01/01/2015		G. Nu	
		01/01/2015		G.Nu	
4785	304	01/01/2015		Paddy	/ 01/01/2015
4786	305	01/01/2015		Maize	e 01/01/2015
4787	306	01/01/2015		Oil Palr	n 01/01/2015
4788	307	01/01/2015		Oil Palr	n 01/01/2015
4789	308	01/01/2015		Oil Palm+Banana	
4790	309	01/01/2015		Lime	= = =
4791	310	01/01/2015		Lime	
4792	311	01/01/2015		Sanda	
4793	312	01/01/2015		Maize	= = =
4793 4794	313			0il Palr	
		01/01/2015			
4795 4706	314	01/01/2015		Oil Palr	= = =
4796	315	01/01/2015		Cashew+Maize	
4797	316	01/01/2015		Lime	
4798	317	01/01/2015		Oil Palr	= = =
4799	318	01/01/2015		Oil Palr	
4800	319	01/01/2015		Maize	e 01/01/2015

```
4801
        320
             01/01/2015
                                                        01/01/2015
                                                  Cane
                             . . .
                                                   NaN
4802
        321
             01/01/2015
                                                        01/01/2015
                             . . .
                                              Oil Palm
4803
        322
             01/01/2015
                                                        01/01/2015
                                                Banana
4804
        323
             01/01/2015
                                                        01/01/2015
4805
        324
                                              Oil Palm
             01/01/2015
                                                        01/01/2015
4806
        325
             01/01/2015
                                               Brinjal
                                                        01/01/2015
4807
        326
             01/01/2015
                                                  Lime
                                                        01/01/2015
4808
        327
             01/01/2015
                                                  Cane
                                                        01/01/2015
4809
        328
             01/01/2015
                                                 Maize
                                                        01/01/2015
                             . . .
4810
        329
             01/01/2015
                                              Oil Palm
                                                        01/01/2015
                             . . .
4811
        330
                                                 Maize
             01/01/2015
                                                        01/01/2015
                             . . .
4812
        331
                                                Cashew
             01/01/2015
                                                        01/01/2015
                             . . .
4813
        332
                                                 Maize
             01/01/2015
                                                        01/01/2015
                             . . .
                                                 Paddy
4814
        333
             01/01/2015
                                                        01/01/2015
                             . . .
[4815 rows x 13 columns]>
In [39]:
Out[39]:
Index(['Sl no', 'Date', 'Farmer No', 'Macro/Micro nutrient',
'Farmer Name',
       'District', 'Mandal', 'Village', 'Survey No',
'Soil type',
       'Fathers Name', 'Crop type', 'Time'],
      dtype='object')
In [40]:
Out[40]:
                          int64
Sl no
Date
                         object
Farmer No
                         object
Macro/Micro nutrient
                         object
Farmer Name
                         object
District
                         object
Mandal
                         object
Village
                         object
Survey No
                         object
Soil type
                         object
Fathers Name
                         object
Crop type
                         object
Time
                         object
dtype: object
In [41]: import
                       as
    ...: import
                       as
    ...: import
                                   as
In [42]:
                           'new complete details ap.csv'
Traceback (most recent call last):
```

```
File "<ipython-input-42-ecff2d337b6b>", line 1, in <module>
    df = pd.read csv('new complete details ap.csv')
  File "/home/gaurav/anaconda3/lib/python3.6/site-packages/
pandas/io/parsers.py", line 678, in parser f
    return read(filepath or buffer, kwds)
  File "/home/gaurav/anaconda3/lib/python3.6/site-packages/
pandas/io/parsers.py", line 440, in read
    parser = TextFileReader(filepath or buffer, **kwds)
  File "/home/gaurav/anaconda3/lib/python3.6/site-packages/
pandas/io/parsers.py", line 787, in init
    self. make engine(self.engine)
  File "/home/gaurav/anaconda3/lib/python3.6/site-packages/
pandas/io/parsers.py", line 1014, in make engine
    self. engine = CParserWrapper(self.f, **self.options)
  File "/home/gaurav/anaconda3/lib/python3.6/site-packages/
pandas/io/parsers.py", line 1708, in init
    self. reader = parsers.TextReader(src, **kwds)
 File "pandas/ libs/parsers.pyx", line 384, in
pandas. libs.parsers.TextReader. cinit
  File "pandas/ libs/parsers.pyx", line 695, in
pandas. libs.parsers.TextReader. setup parser source
FileNotFoundError: File b'new complete details ap.csv' does not
exist
In [43]:
                         'new complete details ap.csv'
In [43]:
Traceback (most recent call last):
 File "<ipython-input-43-ecff2d337b6b>", line 1, in <module>
    df = pd.read csv('new complete details ap.csv')
  File "/home/gaurav/anaconda3/lib/python3.6/site-packages/
pandas/io/parsers.py", line 678, in parser f
    return read(filepath or buffer, kwds)
  File "/home/gaurav/anaconda3/lib/python3.6/site-packages/
pandas/io/parsers.py", line 440, in _read
    parser = TextFileReader(filepath or buffer, **kwds)
```

```
File "/home/gaurav/anaconda3/lib/python3.6/site-packages/
pandas/io/parsers.py", line 787, in init
    self. make engine(self.engine)
  File "/home/gaurav/anaconda3/lib/python3.6/site-packages/
pandas/io/parsers.py", line 1014, in make engine
    self. engine = CParserWrapper(self.f, **self.options)
  File "/home/gaurav/anaconda3/lib/python3.6/site-packages/
pandas/io/parsers.py", line 1708, in init
    self. reader = parsers.TextReader(src, **kwds)
  File "pandas/ libs/parsers.pyx", line 384, in
pandas. libs.parsers.TextReader. cinit
  File "pandas/ libs/parsers.pyx", line 695, in
pandas. libs.parsers.TextReader. setup parser source
FileNotFoundError: File b'new complete details ap.csv' does not
exist
In [44]:
                         'new complete details ap.csv'
In [44]:
In [45]:
Out [45]:
<bound method DataFrame.info of</pre>
                                       Sl no
                                                     Date
                      Avail Cu Avail Mn
                                                 Time
Farmer No
             01/01/2015
                                                    0.51
                                                            15.24
                              1910
01/01/2015
                                                    0.44
                                                             6.90
             01/01/2015
                              1911
                                       . . .
01/01/2015
                              1912
                                                    0.42
                                                             8.34
             01/01/2015
          3
01/01/2015
             01/01/2015
                              1913
                                                    0.67
                                                             4.17
                                       . . .
01/01/2015
                                                             9.20
             01/01/2015
                              1914
                                                    0.45
                                       . . .
01/01/2015
             01/01/2015
                              1916
                                                    0.64
                                                             4.41
                                       . . .
01/01/2015
                                                            17.07
                                                    0.56
             01/01/2015
                              1917
01/01/2015
                                                            17.39
                              1918
                                                    0.60
             01/01/2015
01/01/2015
             01/01/2015
                              1919
                                                    0.58
                                                             7.64
         10
01/01/2015
```

9 11	01/01/2015	1920		0.82	5.71
01/01/2015	01 /01 /2015	1001		0 47	6 01
10 12	01/01/2015	1921		0.47	6.81
01/01/2015 11 13	01/01/2015	1922		0.56	4.44
01/01/2015	01/01/2015	1922		0.50	4.44
12 14	01/01/2015	1923		0.61	10.05
01/01/2015	01/01/2015	1925		0.01	10.05
13 15	01/01/2015	1924		0.89	7.55
01/01/2015	01/01/2015	1324		0.05	7.55
14 16	01/01/2015	1925		0.70	23.15
01/01/2015	02, 02, 2025	1010		0.70	
15 17	01/01/2015	1927		0.53	5.81
01/01/2015		-			
16 18	01/01/2015	1928		0.76	29.67
01/01/2015					
17 19	01/01/2015	1929		0.53	10.32
01/01/2015					
18 20	01/01/2015	1930		1.57	18.78
01/01/2015					
19 21	01/01/2015	1931		0.50	10.34
01/01/2015					
20 22	01/01/2015	1932		0.54	9.22
01/01/2015					
21 23	01/01/2015	1933		0.63	6.04
01/01/2015					
22 24	01/01/2015	1934		0.45	6.29
01/01/2015					
23 25	01/01/2015	1935		0.78	11.86
01/01/2015					
24 26	01/01/2015	1937		0.35	13.23
01/01/2015					
25 27	01/01/2015	1938		0.82	3.56
01/01/2015	01 (01 (2015	1020		0.05	F 26
26 28	01/01/2015	1939		0.85	5.26
01/01/2015	01 /01 /2015	1040		0 01	0 02
27 29	01/01/2015	1940		0.81	9.03
01/01/2015	01/01/2015	1001		0.26	2 20
28 47	01/01/2015	1821		0.36	3.29
01/01/2015 29 48	01/01/2015	1822		0.41	14.88
01/01/2015	01/01/2013	1022		0.41	14.00
	• • •				
4785 304	01/01/2015	6726		1.84	8.74
01/01/2015	01,01,2013	0720	• • •	110-7	<b>3.</b> 7 →
4786 305	01/01/2015	6727		1.29	13.61
01/01/2015	J = , J = , Z U = J	0,2,		1.23	13.01
4787 306	01/01/2015	6728		1.30	10.62

01/01/2015				
4788 307 01/01/2015	01/01/2015	6729	 1.33	7.23
4789 308 01/01/2015	01/01/2015	6730	 1.26	3.26
4790 309 01/01/2015	01/01/2015	6731	 1.88	18.35
4791 310 01/01/2015	01/01/2015	6732	 0.76	23.76
4792 311 01/01/2015	01/01/2015	6733	 0.75	7.26
4793 312 01/01/2015	01/01/2015	6734	 1.99	16.21
4794 313 01/01/2015	01/01/2015	6735	 0.81	7.69
4795 314 01/01/2015	01/01/2015	6736	 1.26	32.96
4796 315 01/01/2015	01/01/2015	6737	 0.47	5.26
4797 316 01/01/2015	01/01/2015	6738	 0.51	7.89
4798 317 01/01/2015	01/01/2015	6739	 0.81	24.52
4799 318 01/01/2015	01/01/2015	6740	 3.97	23.47
4800 319 01/01/2015	01/01/2015	6741	 1.34	7.84
4801 320 01/01/2015	01/01/2015	6742	 2.39	18.37
4802 321 01/01/2015	01/01/2015	6743	 1.15	6.47
4803 322 01/01/2015	01/01/2015	6744	 0.78	15.45
4804 323 01/01/2015	01/01/2015	6745	 0.63	12.78
4805 324 01/01/2015	01/01/2015	6746	 1.43	7.91
4806 325 01/01/2015	01/01/2015	6747	 0.86	20.70
4807 326 01/01/2015	01/01/2015	6748	 1.04	21.79
4808 327 01/01/2015	01/01/2015	6749	 1.89	13.02
4809 328 01/01/2015	01/01/2015	6750	 1.06	6.77
4810 329 01/01/2015	01/01/2015	6751	 1.29	14.57
4811 330 01/01/2015	01/01/2015	6752	 0.62	36.19

```
4812
       331
           01/01/2015
                         6753
                                            3.33
                                                   15.95
                                  . . .
01/01/2015
4813
       332
           01/01/2015
                         6754
                                            1.08
                                                   14.59
                                  . . .
01/01/2015
4814
           01/01/2015
                         6755
                                            1.76
                                                    8.75
       333
                                  . . .
01/01/2015
[4815 rows x 29 columns]>
In [46]:
Out[46]:
Index(['Sl_no', 'Date', 'Farmer_No', 'Macro/Micro nutrient',
'Farmer Name',
      'Survey No',
      'pH', 'EC', 'OC'
     'Avail P', 'Exch K', 'Avail Ca', 'Avail Mg', 'Avail S',
'Avail Zn',
      'Avail B', 'Avail Fe', 'Avail Cu', 'Avail Mn', 'Time'],
     dtype='object')
In [47]: .
Out[47]:
                               ... Avail Cu Avail Mn
  Sl no
            Date Farmer No
Time
     1 01/01/2015
                       1910
                                         0.51
                                                 15.24
                               . . .
01/01/2015
      2 01/01/2015
                       1911
                                         0.44
                                                 6.90
                               . . .
01/01/2015
     3 01/01/2015
                       1912
                                         0.42
                                                 8.34
                               . . .
01/01/2015
      4 01/01/2015
3
                       1913
                                         0.67
                                                 4.17
                               . . .
01/01/2015
                       1914
                                         0.45
                                                 9.20
      5 01/01/2015
                               . . .
01/01/2015
[5 rows x 29 columns]
In [48]:
Out[48]:
Sl no
                       int64
Date
                      object
Farmer No
                      object
Macro/Micro nutrient
                      object
Farmer Name
                      object
District
                      object
Mandal
                      object
```

object Village Latitude float64 float64 Longitude object Survey No Soil type object Fathers Name object Extent AC object Crop\_type object рΗ float64 EC float64 **0**C float64 Avail P float64 Exch K int64 Avail Ca int64 int64 Avail Mg Avail S float64 Avail Zn float64 Avail B float64 Avail Fe float64 Avail Cu float64 Avail Mn float64 object Time dtype: object

## In [**49**]: