6 - Pandas-IngestData

March 22, 2023

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1 Ingest, Inspect & Clean

```
[3]: import numpy as np
import pandas as pd
from numpy.random import randn
```

1.1 Ingest data

https://pandas.pydata.org/docs/user_guide/io.html

NOTE - diabetes1 - 19 columns w/ header - diabetes2 - 19 columns no header

```
[4]: # https://raw.githubusercontent.com/jimcody2014/python-data/main/diabetes1.csv # https://raw.githubusercontent.com/jimcody2014/python-data/main/diabetes2.csv # https://raw.githubusercontent.com/jimcody2014/python-data/main/ diabetes_inspect.csv
```

1.1.1 Reading csv files

[6]: diabetes1.head()

[6]:	encounter_id	<pre>patient_nbr</pre>	race	gender	age	weight	\
0	2278392	8222157	Caucasian	Female	[0-10)	?	
1	149190	55629189	Caucasian	Female	[10-20)	?	
2	64410	86047875	AfricanAmerican	Female	[20-30)	?	
3	500364	82442376	Caucasian	Male	[30-40)	?	
4	16680	42519267	Caucasian	Male	[40-50)	?	

	admission_type_id	admission_source_id	time_in_hospital	payer_code	\
0	6	1	1	?	
1	1	7	3	?	
2	1	7	2	?	
3	1	7	2	?	
1	1	7	1	2	

	num_lab_procedures	num_procedures	${\tt num_medications}$	diag_1	A1Cresult	\
0	41	0	1	250.83	None	
1	59	0	18	276	None	
2	11	5	13	648	None	
3	44	1	16	8	None	
4	51	0	8	197	None	

	metformin	miglitol	insulin	readmitted	Date
0	No	No	No	NO	10/20/2021
1	No	No	Up	>30	09/25/2021
2	No	No	No	NO	08/29/2021
3	No	No	Up	NO	10/20/2021
4	No	No	Steady	NO	09/25/2021

1.1.2 read_csv options

```
[7]: df = pd.read_csv('https://raw.githubusercontent.com/jimcody2014/python-data/
       →main/diabetes2.csv')
 [8]: df.head()
 [8]:
         2278392
                   8222157
                                   Caucasian Female
                                                       [0-10)
                                                                         1.1 ?.1
                                                                                  41
                                                                   6
                                                                     1
      0
          149190 55629189
                                   Caucasian
                                              Female
                                                      [10-20)
                                                                ?
                                                                   1
                                                                      7
                                                                           3
                                                                                  59
                           AfricanAmerican Female
                                                      [20-30)
                                                               ?
                                                                   1
                                                                     7
                                                                               ?
      1
           64410 86047875
                                                                           2
                                                                                  11
      2
          500364 82442376
                                   Caucasian
                                                Male
                                                      [30-40)
                                                               ?
                                                                  1
                                                                                  44
      3
           16680
                  42519267
                                   Caucasian
                                                Male
                                                      [40-50)
                                                                      7
                                                                           1
                                                                                  51
           35754 82637451
                                                                                  31
      4
                                   Caucasian
                                                Male
                                                       [50-60)
                                                                           3
           1.2 250.83 None No No.1
                                          No.2
                                                 NO
                                                     10/20/21
         0
                                                      9/25/21
      0
             18
                   276
                        None
                              No
                                    No
                                            Uр
                                                >30
      1
         5
             13
                   648
                        None
                              No
                                    No
                                            No
                                                 NO
                                                      8/29/21
      2
        1
             16
                     8
                                            Uр
                                                 NO
                                                     10/20/21
                        None
                              No
                                    No
      3
              8
                                        Steady
                                                      9/25/21
         0
                   197
                        None
                              No
                                    No
                                                 NO
         6
                                                      8/29/21
             16
                   414
                        None No
                                    No
                                        Steady >30
 [9]: df = pd.read_csv('https://raw.githubusercontent.com/jimcody2014/python-data/
       ⇔main/diabetes2.csv',
                       header = None)
      df.head()
 [9]:
              0
                                          2
                                                  3
                        1
                                                            4
                                                              5
                                                                   6
                                                                                  10
         2278392
                   8222157
                                                        [0-10)
                                                               ?
                                                                               ?
                                   Caucasian Female
                                                                    6
                                                                        1
                                                                            1
                                                                                  41
                                                      [10-20)
      1
          149190 55629189
                                   Caucasian
                                             Female
                                                                    1
                                                                        7
                                                                            3
                                                                               ?
                                                                                  59
      2
           64410 86047875 AfricanAmerican Female
                                                      [20-30)
                                                                    1
                                                                        7
                                                                            2 ?
                                                                                  11
                                                                            2
                                                                               ?
                                                                                  44
          500364
                  82442376
                                   Caucasian
                                                Male
                                                      [30-40)
                                                               ?
                                                                    1
                                                                        7
      3
                                                                            1
                                                                                  51
      4
           16680 42519267
                                   Caucasian
                                                Male
                                                      [40-50)
                                                                    1
             12
                     13
                           14
                               15
                                   16
                                            17
                                                 18
         11
                                                            19
                               Nο
                                                     10/20/21
      0
          0
              1
                 250.83 None
                                   Nο
                                            No
                                                 NO
      1
          0
             18
                    276 None
                               No
                                   No
                                            Uр
                                                >30
                                                      9/25/21
      2
                    648 None
                                                 NO
                                                      8/29/21
          5
             13
                               No
                                   No
                                            No
      3
          1
             16
                      8
                         None
                               No
                                   No
                                            Uр
                                                 NO
                                                     10/20/21
      4
          0
              8
                    197 None No
                                        Steady
                                                 NO
                                                      9/25/21
                                   No
[10]: df = pd.read csv('https://raw.githubusercontent.com/jimcody2014/python-data/
       →main/diabetes2.csv',
                       header = None,
                      names = ('EncounterId','b','c','d','e','f','g','h','i','j','k',
                                'l','m','n','o','p','q','r','s','EDT'))
      df.head()
```

```
[10]:
         EncounterId
                             b
                                              С
                                                               e f
                                                                     ghij
                                                                                  k
             2278392
      0
                       8222157
                                      Caucasian Female
                                                          [0-10)
                                                                     6
                                                                        1
                                                                           1
                                                                                  41
      1
              149190 55629189
                                      Caucasian Female [10-20)
                                                                  ?
                                                                      1
                                                                        7
                                                                           3
                                                                             ?
                                                                                  59
      2
               64410 86047875 AfricanAmerican Female
                                                         [20-30)
                                                                  ?
                                                                      1 7
                                                                           2 ?
                                                                                  11
                                                   Male [30-40)
                                                                           2 ?
      3
              500364 82442376
                                      Caucasian
                                                                  ?
                                                                      1
                                                                        7
                                                                                  44
      4
               16680 42519267
                                      Caucasian
                                                   Male [40-50)
                                                                  ?
                                                                      1
                                                                        7
                                                                           1 ?
                                                                                 51
         1
            m
                     n
                                           r
                                                s
                                                        EDT
                           0
                               p
                                   q
         0
                                  No
                                               NO
                                                  10/20/21
      0
            1
                250.83
                        None
                              No
                                          No
      1
        0
           18
                   276
                        None
                              No
                                  No
                                          Uр
                                              >30
                                                    9/25/21
      2 5
                                               NO
                                                    8/29/21
           13
                   648
                        None
                                  No
                                          No
                              No
      3
        1
                                  No
                                               NO
                                                  10/20/21
           16
                     8
                        None
                              No
                                          ďμ
      4
                                                    9/25/21
         0
             8
                   197
                                               NO
                        None
                              No
                                  No
                                      Steady
[11]: # Override existing column names
      diabetes1 = pd.read_csv('https://raw.githubusercontent.com/jimcody2014/
       ⇒python-data/main/diabetes1.csv',
                             header = 0,
                             names =

→('EncounterId','b','c','d','e','f','g','h','i','j','k',
                                      'l','m','n','o','p','q','r','s','EDT'))
      diabetes1.head()
[11]:
         EncounterId
                             b
                                                      d
                                                                                  k
                                              С
                                                                e f
                                                                     g
                                                                        h i
                                                                              j
      0
             2278392
                       8222157
                                      Caucasian Female
                                                          Γ0-10)
                                                                           1
                                                                                  41
      1
              149190 55629189
                                      Caucasian Female
                                                         [10-20)
                                                                     1
                                                                           3 ?
                                                                                  59
      2
                                                                  ?
                                                                     1 7 2 ?
               64410 86047875 AfricanAmerican Female
                                                         [20-30)
                                                                                  11
                                                                              ?
      3
              500364 82442376
                                      Caucasian
                                                   Male
                                                         [30-40)
                                                                  ?
                                                                      1
                                                                        7
                                                                           2
                                                                                  44
               16680 42519267
                                      Caucasian
                                                   Male [40-50)
                                                                  ?
                                                                      1 7
                                                                           1 ?
                                                                                  51
                                                          EDT
         1
                           0
                               р
                                   q
                                           r
      0
         0
                250.83
                        None
                              No
                                  No
                                          No
                                               NO
                                                   10/20/2021
      1
         0
           18
                   276
                        None
                              No
                                  No
                                          Uр
                                              >30
                                                   09/25/2021
      2
        5
                   648
                                                   08/29/2021
            13
                        None
                              No
                                  No
                                          No
                                               NO
      3
        1
            16
                     8
                        None
                                  No
                                          Uр
                                               NO
                                                   10/20/2021
                              No
      4
         0
                                               NO 09/25/2021
             8
                   197
                        None No
                                  No
                                      Steady
[12]: # Use a column as the index
      df = pd.read csv('https://raw.githubusercontent.com/jimcody2014/python-data/
       ⇔main/diabetes2.csv',
                       header = None,
                      names = ('EncounterId', 'b', 'c', 'd', 'e', 'f', 'g', 'h', 'i', 'j', 'k',
                               'l','m','n','o','p','q','r','s','EDT'),
                      index_col = 'EncounterId')
      df.head()
```

```
[12]:
                           b
                                                     d
                                                              efghij kl\
                                            С
      EncounterId
      2278392
                    8222157
                                    Caucasian Female
                                                         [0-10)
                                                                 ?
                                                                    6
                                                                              ?
                                                                                 41
                                                                        1
                                                                           1
      149190
                   55629189
                                    Caucasian Female [10-20)
                                                                 ?
                                                                    1
                                                                       7
                                                                           3
                                                                              ?
                                                                                 59
                                                                                     0
                   86047875 AfricanAmerican Female
                                                                          2 ?
      64410
                                                        [20-30)
                                                                 ?
                                                                    1
                                                                       7
                                                                                     5
                                                                                 11
      500364
                   82442376
                                    Caucasian
                                                  Male
                                                        [30-40)
                                                                 ?
                                                                    1
                                                                       7
                                                                           2
                                                                             ?
                                                                                 44
                                                        [40-50)
                                                                       7
      16680
                   42519267
                                    Caucasian
                                                 Male
                                                                          1
                                                                             ?
                                                                                 51 0
                                                                 EDT
                                                         S
                            n
                                           q
                                                   r
      EncounterId
      2278392
                       250.83
                                None
                                      No
                                                        NO
                                                            10/20/21
                    1
                                          No
                                                   No
      149190
                   18
                           276
                                None
                                      No
                                          No
                                                       >30
                                                             9/25/21
                                                   Uр
      64410
                           648
                                                             8/29/21
                   13
                                None
                                      No
                                          No
                                                   No
                                                        NO
      500364
                   16
                             8
                                                        NO
                                                            10/20/21
                                None
                                      No
                                          No
                                                   Uр
      16680
                    8
                                                             9/25/21
                           197
                                None
                                      No
                                          No
                                              Steady
                                                        NO
[13]: df.loc[64410]
[13]: b
                    86047875
      С
             AfricanAmerican
                      Female
      d
                      [20-30)
      е
                            ?
      f
                            1
      g
                            7
      h
                            2
      i
      j
                            ?
                           11
      k
      1
                            5
      m
                           13
                          648
      n
      0
                        None
                           No
      р
                           No
      q
                           No
      r
                           NO
      s
      EDT
                     8/29/21
      Name: 64410, dtype: object
[14]: # Only use a subset of the columns
      df = pd.read_csv('https://raw.githubusercontent.com/jimcody2014/python-data/
       ⇔main/diabetes2.csv',
                       header = None,
                      names = ('EncounterId','b','c','d','e','EDT'),
                       index_col = 'EncounterId',
                      usecols = [0,1,2,3,7,19])
```

```
#df.head()
[15]: df.info()
     <class 'pandas.core.frame.DataFrame'>
     Int64Index: 101768 entries, 2278392 to 443797076
     Data columns (total 5 columns):
         Column Non-Null Count
                                  Dtype
         _____
                 101768 non-null int64
      0
         b
      1
         С
                 101768 non-null object
      2
         d
                 101768 non-null object
      3
                 101768 non-null
                                  int64
      4
          EDT
                 101768 non-null object
     dtypes: int64(2), object(3)
     memory usage: 4.7+ MB
[16]: # Change data types as the data is read in
     df = pd.read_csv('https://raw.githubusercontent.com/jimcody2014/python-data/
       ⇔main/diabetes2.csv',
                      header = None,
                     names = ('EncounterId','b','c','d','e','EDT'),
                     index_col = 'EncounterId',
                     usecols = [0,1,2,3,7,19],
                     dtype = {'e':object }
                     )
     df.info()
     <class 'pandas.core.frame.DataFrame'>
     Int64Index: 101768 entries, 2278392 to 443797076
     Data columns (total 5 columns):
         Column Non-Null Count
                                  Dtype
         -----
                                  ____
                 101768 non-null int64
                 101768 non-null object
      1
         С
      2
         d
                 101768 non-null object
                 101768 non-null object
      3
         EDT
                 101768 non-null object
     dtypes: int64(1), object(4)
     memory usage: 4.7+ MB
[17]: # Change data types as the data is read in
     df = pd.read_csv('https://raw.githubusercontent.com/jimcody2014/python-data/
       ⇔main/diabetes2.csv',
                      header = None,
                     names = ('EncounterId','b','c','d','e','EDT'),
                     index_col = 'EncounterId',
```

```
<class 'pandas.core.frame.DataFrame'>
Int64Index: 101768 entries, 2278392 to 443797076
Data columns (total 5 columns):
    Column Non-Null Count
                            Dtype
    _____
0
           101768 non-null object
           101768 non-null object
1
    С
2
            101768 non-null object
    d
3
            101768 non-null object
    е
4
    EDT
            101768 non-null object
dtypes: object(5)
memory usage: 4.7+ MB
```

1.1.3 Ingesting Dates

```
<class 'pandas.core.frame.DataFrame'>
Int64Index: 101768 entries, 2278392 to 443797076
Data columns (total 5 columns):
    Column Non-Null Count
                             Dtype
            101768 non-null int64
 0
    h
            101768 non-null object
 1
    С
 2
            101768 non-null object
            101768 non-null object
 3
    е
    EDT
            101768 non-null datetime64[ns]
dtypes: datetime64[ns](1), int64(1), object(3)
memory usage: 4.7+ MB
```

```
[19]: df
```

```
[19]:
                                                                EDT
                           b
                                            С
                                                    d e
     EncounterId
      2278392
                                    Caucasian Female 1 2021-10-20
                     8222157
      149190
                    55629189
                                    Caucasian
                                               Female 7 2021-09-25
      64410
                             AfricanAmerican Female 7 2021-08-29
                    86047875
      500364
                    82442376
                                    Caucasian
                                                 Male 7 2021-10-20
      16680
                    42519267
                                    Caucasian
                                                 Male 7 2021-09-25
                                                 Male 7 2021-10-20
      443854148
                    41088789
                                    Caucasian
      443857166
                    31693671
                                    Caucasian Female 7 2021-09-25
                                                 Male 7 2021-08-29
      443867222
                   175429310
                                    Caucasian
      62256
                              AfricanAmerican
                                               Female 2 2021-10-20
                    49726791
                                    Caucasian
                                                 Male 1 2021-09-25
      443797076
                   183766055
      [101768 rows x 5 columns]
[20]: df = pd.read_csv('https://raw.githubusercontent.com/jimcody2014/python-data/
       →main/diabetes2.csv',
                       header = None,
                       names = ('EncounterId','b','c','d','e','EDT'),
                       index_col = 'EncounterId',
                       usecols = [0,1,2,3,7,19],
                       dtype = {'e':object, },
                       parse_dates=['EDT'],
                       dayfirst=True
                                                       # Why isn't this working?
                      )
      df
[20]:
                                                                EDT
                           b
                                            С
                                                    d e
     EncounterId
      2278392
                     8222157
                                    Caucasian
                                               Female 1 2021-10-20
      149190
                                    Caucasian
                                               Female 7 2021-09-25
                    55629189
      64410
                              AfricanAmerican
                                               Female 7 2021-08-29
                    86047875
      500364
                    82442376
                                                 Male 7 2021-10-20
                                    Caucasian
      16680
                    42519267
                                                 Male 7 2021-09-25
                                    Caucasian
      443854148
                                                 Male 7 2021-10-20
                    41088789
                                    Caucasian
                                    Caucasian Female 7 2021-09-25
      443857166
                    31693671
      443867222
                   175429310
                                    Caucasian
                                                 Male 7 2021-08-29
      62256
                    49726791 AfricanAmerican Female 2 2021-10-20
      443797076
                   183766055
                                    Caucasian
                                                 Male 1 2021-09-25
      [101768 rows x 5 columns]
[21]: df.shape
```

[21]: (101768, 5)

```
[22]: # Only bring in X number of rows
      df = pd.read_csv('https://raw.githubusercontent.com/jimcody2014/python-data/
       ⇔main/diabetes2.csv',
                       header = None,
                      names = ('EncounterId','b','c','d','e'),
                      index_col = 'EncounterId',
                      usecols = [0,1,2,3,7],
                      nrows = 1000)
      df.shape
[22]: (1000, 4)
     1.1.4 Reading other file types

    excel

        • ison
        • APIs
        • database
[35]: # Read in an excel spreadsheet
      # I had to install openpyxl in my anaconda environment for this to work.
      imm = pd.read_excel('/Users/jamescody/Documents/python-data/immunotherapy.xlsx')
      imm.head()
[35]:
                    Time Number_of_Warts Type Area
                                                        induration_diameter
         sex age
      0
               22
                    2.25
                                        14
                                               3
                                                    51
                                                                          50
           1
                   3.00
                                                   900
                                                                          70
      1
           1
               15
                                         2
                                               3
      2
           1
               16 10.50
                                         2
                                               1
                                                   100
                                                                          25
      3
           1
               27
                    4.50
                                         9
                                               3
                                                    80
                                                                          30
      4
                                         6
           1
               20
                    8.00
                                               1
                                                    45
                                                                           8
```

```
2 1 16 10.50 2 1 100
3 1 27 4.50 9 3 80
4 1 20 8.00 6 1 45

Result_of_Treatment
0 1
1 1
2 1
3 1
4 1
```

```
[]:  # Saving a dataframe to json format imm.to_json('')
```

```
[34]: # Read in a json file

imm2 = pd.read_json('/Users/jamescody/Documents/python-data/immjson.json')
imm2.head()
```

```
[34]:
                            Number_of_Warts Type
                                                              induration_diameter
          sex
               age
                      Time
                                                       Area
                      2.25
      0
            1
                22
                                            14
                                                    3
                                                         51
                                                                                 50
      1
            1
                      3.00
                                             2
                                                    3
                                                        900
                                                                                 70
                15
      2
            1
                16
                     10.50
                                             2
                                                    1
                                                        100
                                                                                 25
                                             9
      3
            1
                27
                      4.50
                                                    3
                                                         80
                                                                                 30
      4
                      8.00
                                             6
                                                         45
                                                                                  8
            1
                20
          Result_of_Treatment
      0
                              1
      1
                              1
      2
                              1
      3
                              1
      4
                              1
```

1.1.5 Using an API as input - - - This will not run on Kaggle

```
[27]: import requests
[28]: # Send the request and receive a response
      # Get the content of the response (there are other parts of the response (e.g.,,,
       ⇔header))
      # Display the content in json format
      response = requests.get("https://data.cdc.gov/resource/saz5-9hgg.json")
      jsonhold = response.json()
      jsonhold
[28]: [{'jurisdiction': 'Connecticut',
        'week_of_allocations': '2021-06-21T00:00:00.000',
        '_1st_dose_allocations': '54360',
        ' 2nd dose allocations': '54360'},
       {'jurisdiction': 'Maine',
        'week of allocations': '2021-06-21T00:00:00.000',
        '_1st_dose_allocations': '21420',
        '_2nd_dose_allocations': '21420'},
       {'jurisdiction': 'Massachusetts',
        'week_of_allocations': '2021-06-21T00:00:00.000',
        '_1st_dose_allocations': '104580',
        '_2nd_dose_allocations': '104580'},
       {'jurisdiction': 'New Hampshire',
        'week_of_allocations': '2021-06-21T00:00:00.000',
        '_1st_dose_allocations': '21420',
        '_2nd_dose_allocations': '21420'},
       {'jurisdiction': 'Rhode Island',
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        '_2nd_dose_allocations': '18720'},
       {'jurisdiction': 'Nevada',
        'week_of_allocations': '2021-03-08T00:00:00.000',
        '_1st_dose_allocations': '36270',
        '_2nd_dose_allocations': '36270'},
       {'jurisdiction': 'American Samoa',
        'week of allocations': '2021-03-08T00:00:00.000',
        '_1st_dose_allocations': '0',
        ' 2nd dose allocations': '0'},
       {'jurisdiction': 'Guam',
        'week of allocations': '2021-03-08T00:00:00.000',
        '_1st_dose_allocations': '0',
        '_2nd_dose_allocations': '0'},
       {'jurisdiction': 'Marshall Islands',
        'week_of_allocations': '2021-03-08T00:00:00.000',
        '_1st_dose_allocations': '0',
        '_2nd_dose_allocations': '0'}]
[29]: # Put the content into a DataFrame
      # Display the DataFrame
      vaccines = pd.DataFrame(jsonhold)
      vaccines
[29]:
                                 week_of_allocations _1st_dose_allocations \
               jurisdiction
      0
                Connecticut 2021-06-21T00:00:00.000
                                                                      54360
      1
                      Maine 2021-06-21T00:00:00.000
                                                                      21420
      2
              Massachusetts 2021-06-21T00:00:00.000
                                                                     104580
      3
              New Hampshire 2021-06-21T00:00:00.000
                                                                      21420
               Rhode Island 2021-06-21T00:00:00.000
      4
                                                                      17280
                     Hawaii 2021-03-08T00:00:00.000
      995
                                                                      18720
```

{'jurisdiction': 'Wyoming',

```
996
                                                                  36270
               Nevada 2021-03-08T00:00:00.000
997
       American Samoa 2021-03-08T00:00:00.000
                                                                      0
998
                 Guam 2021-03-08T00:00:00.000
                                                                      0
    Marshall Islands 2021-03-08T00:00:00.000
999
                                                                      0
    _2nd_dose_allocations
0
                    54360
1
                    21420
2
                   104580
3
                    21420
4
                    17280
995
                    18720
                    36270
996
997
                        0
998
                        0
999
                         0
```

[1000 rows x 4 columns]

```
[]: # Same process
# Just set the url as a variable
# Combined a few other steps

#response = requests.get(url)
#vermont = pd.DataFrame(response.json())
#vermont
```

1.1.6 A local example running on my machine

```
[]: #import requests
url = 'http://localhost:8080/rest/applicants'
response = requests.get(url)
json1 = response.json()
json1
# Notice that all the data is wrapped in 'content'
```

```
[]: # We need to get the results inside of 'content'.

#df5 = pd.DataFrame(json1['content'])

#df5
```

1.2 Exercise - 15 minutes

1.2.1 Part 1

• Bring the csv file diabetes_inspect into a DataFrame. Name the dataframe df.

• What is its shape?

1.2.2 Part 2

- Read the outbreaks2.csv file into a pdf. Name the df something you will remember.
- The csv file does not have a header row.
- This data is a listing of food born illness outbreaks.
- Do not bring in the 6th or 8th columns. The df should have 10 columns.
- The remaining columns contain the following data. You can decide how to name the columns
 - year
 - month
 - state
 - location
 - food
 - species
 - status
 - illnesses
 - hospitalizations
 - fatalities
- What is the shape of this DataFrame?



[]: # Part 1

2 Renaming Preview

2.1 Rename using names in read csv

```
[36]:
                              Number_of_Warts
                                                   Type
                                                                 induration_diameter
          sex
                age
                       Time
                                                          Area
             1
                 22
                       2.25
                                              14
                                                      3
                                                                                      50
       0
                                                            51
       1
                       3.00
                                               2
                                                      3
                                                           900
                                                                                      70
                 15
       2
             1
                 16
                      10.50
                                               2
                                                      1
                                                           100
                                                                                      25
       3
                       4.50
                                               9
                                                      3
                                                            80
                                                                                      30
             1
                 27
             1
                 20
                       8.00
                                               6
                                                      1
                                                            45
                                                                                       8
```

```
Result_of_Treatment
      0
      1
                           1
      2
                           1
      3
                           1
      4
                           1
[37]: | imm = pd.read_excel('/Users/jamescody/Documents/python-data/immunotherapy.xlsx',
                          names = ('a','b','c','d','e','f','g','h'),
                          sheet_name = 'Immuno1')
      imm.head()
[37]:
         a
             b
                    С
                        d e
                                f
                                    g
                                       h
         1
            22
                 2.25
                       14
                           3
                               51
                                   50
      0
                                       1
      1
         1 15
                 3.00
                        2 3
                              900
                                   70
                                       1
       1 16
      2
               10.50
                        2 1
                              100
                                   25
      3
        1 27
                 4.50
                        9
                          3
                               80
                                   30
                                       1
      4 1 20
                 8.00
                        6 1
                               45
                                    8
                                       1
     2.2 Rename all columns using rename()
[38]: imm.rename(columns = {'a':'a1','b':'b1','c':'c1','d':'d1','e':'e1','f':'f1','g':

¬'g1','h':'h1'}, inplace = True)
      imm.head()
      # An alternative - using the axis=1
      # imm.rename({'a':'a1','b':'b1','c':'c1','d':'d1','e':'e1','f':'f1','g':
       → 'g1', 'h': 'h1'}, axis =1, inplace = True)
[38]:
         a1 b1
                    c1 d1
                            e1
                                 f1
                                     g1 h1
             22
                  2.25
                        14
                             3
                                 51
                                     50
                                          1
      1
            15
                  3.00
                         2
                             3
                                900
                                     70
          1
      2
          1 16 10.50
                         2
                             1 100
                                     25
                                          1
      3
            27
                  4.50
                                     30
                                          1
          1
                         9
                             3
                                 80
      4
          1
            20
                  8.00
                                 45
                         6
                             1
                                      8
                                          1
     2.3 Rename some columns using rename()
[39]: imm.rename(columns = {'b1':'BB','e1':'EE'}, inplace = True)
      imm.head()
[39]:
         a1 BB
                            ΕE
                    c1
                        d1
                                 f1
                                     g1 h1
             22
                  2.25
                        14
                             3
                                 51
                                     50
      1
            15
                  3.00
                         2
                             3
                                900
                                     70
      2
          1
            16
                 10.50
                         2
                             1
                                100
                                     25
                                          1
```

1 27

4.50

```
4 1 20 8.00 6 1 45 8 1
```

2.4 Rename using setaxis()

```
[40]: imm.set_axis(['AA','BB','CC','DD','EE','FF','GG','HH'], axis = 'columns', usinplace = True)
imm.head()
```

```
[40]:
              BB
          AA
                       CC
                           DD
                                EΕ
                                     FF
                                          GG
                                               HH
      0
           1
               22
                    2.25
                           14
                                 3
                                      51
                                          50
                                                1
                            2
      1
           1
              15
                    3.00
                                 3
                                     900
                                          70
                                                1
      2
                   10.50
                            2
                                     100
                                          25
           1
              16
                                 1
                                                1
      3
           1
               27
                    4.50
                                 3
                                     80
                                          30
                                                1
               20
                    8.00
                            6
                                      45
                                           8
```

2.5 Rename using .columns

```
[41]: imm.columns = ['AaA','BbB','CcC','DdD','EeE','FfF','GgG','HhH'] imm.head()
```

```
[41]:
          AaA
                 BbB
                         CcC
                               DdD
                                     EeE
                                           FfF
                                                  {\tt GgG}
                                                        HhH
                        2.25
       0
             1
                  22
                                 14
                                        3
                                             51
                                                   50
                                                          1
       1
                        3.00
                                  2
                                        3
                                            900
                                                   70
                                                          1
             1
                  15
       2
             1
                  16
                       10.50
                                  2
                                        1
                                            100
                                                   25
                                                          1
       3
                  27
                        4.50
                                  9
                                        3
                                                   30
                                                          1
             1
                                             80
       4
             1
                  20
                        8.00
                                  6
                                             45
                                                          1
                                        1
                                                    8
```

2.6 Rename using str.replace (a string function)

```
[42]: imm.columns = imm.columns.str.replace('CcC','CCC')
imm.head()
```

```
[42]:
           AaA
                 BbB
                          CCC
                                DdD
                                      EeE
                                            FfF
                                                  {\tt GgG}
                                                         HhH
             1
                  22
                        2.25
                                 14
                                         3
                                             51
                                                    50
                                                           1
       0
       1
             1
                  15
                        3.00
                                  2
                                         3
                                            900
                                                    70
                                                           1
       2
             1
                  16
                       10.50
                                  2
                                        1
                                            100
                                                    25
                                                           1
                  27
                        4.50
                                                    30
       3
             1
                                  9
                                         3
                                             80
                                                           1
       4
             1
                  20
                        8.00
                                  6
                                         1
                                             45
                                                     8
                                                           1
```