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```
In [1]: import numpy as np
          import pandas as pd
         clean=pd.read excel(r'C:\Users\user\Desktop\excel\Book1.xlsx')
 In [4]:
          clean
 Out[4]:
                                            ADDR
                                                          DT NAME
                                                                        time
          0 45 rd, kenith street, btm, bangalore 500038 2022-04-03
                                                                 abc 8:30:21
          1
                       45 rd, street, hitech, Hd 500038 2022-04-02
                                                                 dec 5:30:21
 In [7]: clean.info()
        <class 'pandas.core.frame.DataFrame'>
        RangeIndex: 2 entries, 0 to 1
        Data columns (total 4 columns):
             Column Non-Null Count Dtype
             ADDR
                                      object
         0
                      2 non-null
             DT
                      2 non-null
                                       datetime64[ns]
         2
             NAME
                      2 non-null
                                      object
             time
                      2 non-null
                                       object
        dtypes: datetime64[ns](1), object(3)
        memory usage: 196.0+ bytes
 In [8]: clean.head()
 Out[8]:
                                            ADDR
                                                          DT NAME
                                                                        time
          0 45 rd, kenith street, btm, bangalore 500038 2022-04-03
                                                                 abc 8:30:21
                       45 rd, street, hitech, Hd 500038 2022-04-02
                                                                      5:30:21
 In [9]:
         clean.describe()
 Out[9]:
                                DT
                                 2
          count
          mean 2022-04-02 12:00:00
           min 2022-04-02 00:00:00
           25% 2022-04-02 06:00:00
           50% 2022-04-02 12:00:00
           75% 2022-04-02 18:00:00
           max 2022-04-03 00:00:00
         clean[['home','street','area','city']]=clean['ADDR'].str.split(',',expand=True)
In [11]:
          clean
```

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```
Out[11]:
                          ADDR
                                      DT NAME
                                                    time home
                                                                    street
                                                                             area
                                                                                           city
               45 rd, kenith street,
                                    2022-
                                                                    kenith
                                                                                     bangalore
          0
                  btm, bangalore
                                             abc 8:30:21
                                                            45 rd
                                                                             btm
                                    04-03
                                                                                        500038
                                                                    street
                         500038
              45 rd, street, hitech,
                                    2022-
                                             dec 5:30:21
                                                            45 rd
                                                                    street hitech
                                                                                     Hd 500038
                      Hd 500038
                                   04-02
In [21]: clean=clean.drop(columns=['ADDR'])
          clean
Out[21]:
                     DT NAME
                                    time home
                                                                                  city
                                                       street
                                                                area
          0 2022-04-03
                             abc 8:30:21
                                           45 rd kenith street
                                                                      bangalore 500038
                                                                btm
             2022-04-02
                            dec 5:30:21
                                                                            Hd 500038
                                           45 rd
                                                              hitech
                                                       street
          clean[['hours','min','sec']]=clean['time'].str.split(':',expand=True)
In [25]:
          clean
Out[25]:
                      NAME
                  DT
                                 time home
                                                 street
                                                                         city
                                                                                     min
                                                          area
                                                                              hours
                                                                                           sec
                2022-
                                                                   bangalore
                                                 kenith
          0
                                                                                   8
                               8:30:21
                                        45 rd
                                                                                       30
                                                                                            21
                          abc
                                                          btm
                04-03
                                                 street
                                                                      500038
                2022-
          1
                          dec 5:30:21
                                        45 rd
                                                 street hitech
                                                                   Hd 500038
                                                                                   5
                                                                                       30
                                                                                            21
                04-02
          clean=clean.drop(columns=['time'])
In [26]:
Out[26]:
                        NAME home
                     DT
                                              street
                                                                                     min
                                                       area
                                                                         city
                                                                              hours
                                                                                           sec
               2022-04-
                                                                   bangalore
                                              kenith
          0
                            abc
                                  45 rd
                                                       btm
                                                                                   8
                                                                                       30
                                                                                            21
                     03
                                                                      500038
                                              street
               2022-04-
          1
                                              street hitech
                                  45 rd
                                                                   Hd 500038
                                                                                   5
                                                                                       30
                                                                                            21
                            dec
                     02
          clean['DT']=clean['DT'].astype(str)
In [32]:
          clean[['year','month','day']]=clean['DT'].str.split('-',expand=True)
          clean.head()
Out[32]:
                DT NAME home
                                    street
                                             area
                                                        city
                                                              hours
                                                                     min
                                                                                year month day
                                                                          sec
              2022-
                                    kenith
                                                   bangalore
          0
                             45 rd
                                                                                2022
                                                                                               03
                                             btm
                                                                  8
                                                                       30
                                                                            21
                                                                                          04
              04-03
                                    street
                                                     500038
              2022-
                                                         Hd
                       dec
                             45 rd
                                    street hitech
                                                                  5
                                                                       30
                                                                           21
                                                                                2022
                                                                                          04
                                                                                               02
              04-02
                                                     500038
In [35]:
          clean.head()
```

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Out[35]:		NAME	home	street	area	city	hours	min	sec	year	month	day	
	0	abc	45 rd	kenith street	btm	bangalore 500038	8	30	21	2022	04	03	
	1	dec	45 rd	street	hitech	Hd 500038	5	30	21	2022	04	02	

```
In [36]: clean.i
        AttributeError
                                                   Traceback (most recent call last)
        ~\AppData\Local\Temp\ipykernel_9240\3316154820.py in ?()
        ----> 1 clean.i
        ~\anaconda3\Lib\site-packages\pandas\core\generic.py in ?(self, name)
           6295
                             and name not in self._accessors
           6296
                             and self._info_axis._can_hold_identifiers_and_holds_name(nam
        e)
                        ):
           6297
           6298
                             return self[name]
        -> 6299
                        return object.__getattribute__(self, name)
        AttributeError: 'DataFrame' object has no attribute 'i'
 In [ ]:
 In [ ]:
```