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```
import pandas as pd #reading behaviour of data using paandas
In [24]:
         pd.__version__
Out[24]: '2.2.2'
In [25]: #pip install --upgrade openpyxl(for reading excel)
In [39]: emp = pd.read_excel(r"C:\Users\Ramya\Downloads\Rawdata.xlsx")
         emp #this is raw data, i need to clean it
Out[40]:
             Name
                           Domain
                                            Location
                                      Age
                                                        Salary
                                                                   Ехр
          0
              Mike
                      Datascience#$ 34 years
                                                        5^00#0
                                                                   2+
                                             Mumbai
            Teddy^
                                     45' yr Bangalore
                                                                    <3
                            Testing
                                                      10%%000
             Uma#r Dataanalyst^^#
                                                      1$5%000
          2
                                      NaN
                                                NaN
                                                                 4> yrs
          3
                       Ana^^lytics
                                      NaN Hyderbad
               Jane
                                                       2000^0
                                                                  NaN
             Uttam*
                          Statistics
                                      67-yr
                                                NaN
                                                        30000-
                                                               5+ year
          5
               Kim
                              NLP
                                      55yr
                                                Delhi
                                                      6000^$0
                                                                   10+
         id(emp) #address of memory
In [41]:
Out[41]: 2341216167808
In [42]: emp.columns
Out[42]: Index(['Name', 'Domain', 'Age', 'Location', 'Salary', 'Exp'], dtype='object')
In [43]: emp.shape
Out[43]: (6, 6)
In [44]:
         emp.head # 1st 5 rows
Out[44]: <bound method NDFrame.head of
                                             Name
                                                           Domain
                                                                              Location
                                                                        Age
          Salary
                      Exp
                      Datascience#$ 34 years
                                                           5^00#0
                                                                        2+
          0
              Mike
                                                  Mumbai
                                               Bangalore 10%%000
          1 Teddy^
                            Testing
                                       45' yr
                                                                        <3
            Uma#r Dataanalyst^^#
          2
                                          NaN
                                                     NaN 1$5%000
                                                                    4> yrs
                       Ana^^lytics
          3
              Jane
                                          NaN
                                                Hyderbad
                                                           2000^0
                                                                       NaN
          4 Uttam*
                         Statistics
                                        67-yr
                                                     NaN
                                                           30000-
                                                                   5+ year
                Kim
                                NLP
                                         55yr
                                                   Delhi
                                                          6000^$0
                                                                       10+>
In [45]: emp.tail # bottom 5 rows
```

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```
Out[45]: <bound method NDFrame.tail of
                                            Name
                                                          Domain
                                                                       Age
                                                                              Location
         Salary
                     Exp
              Mike
                     Datascience#$ 34 years
                                                          5^00#0
                                                                       2+
         0
                                                 Mumbai
                           Testing 45' yr Bangalore 10%%000
         1 Teddy^
                                                                       <3
            Uma#r Dataanalyst^^#
                                       NaN
                                                   NaN 1$5%000
                                                                  4> yrs
                      Ana^^lytics
         3
              Jane
                                        NaN
                                               Hyderbad
                                                          2000^0
                                                                      NaN
                                    67-yr
         4 Uttam*
                        Statistics
                                                    NaN
                                                          30000- 5+ year
         5
               Kim
                               NLP
                                       55yr
                                                  Delhi 6000^$0
                                                                       10+>
In [46]: emp.info()
        <class 'pandas.core.frame.DataFrame'>
        RangeIndex: 6 entries, 0 to 5
        Data columns (total 6 columns):
            Column
                     Non-Null Count Dtype
            -----
                       -----
                                       object
         0 Name
                      6 non-null
         1
            Domain 6 non-null
                                       object
                     4 non-null
                                       object
         2 Age
         3 Location 4 non-null
                                       object
         4
             Salary
                       6 non-null
                                       object
         5
             Exp
                       5 non-null
                                       object
        dtypes: object(6)
        memory usage: 420.0+ bytes
In [47]: emp.isnull() #missing value
Out[47]:
            Name Domain Age Location Salary
                                                   Exp
         0
             False
                      False False
                                     False
                                            False False
             False
                      False False
                                     False
                                            False False
             False
         2
                      False True
                                     True
                                            False False
             False
                      False True
                                     False
                                            False
         3
                                                  True
         4
             False
                      False False
                                            False False
                                     True
              False
                                     False
         5
                      False False
                                            False False
         emp.isna() # same to check null
In [48]:
Out[48]:
            Name Domain Age Location Salary
                                                   Exp
         0
             False
                      False False
                                     False
                                            False False
         1
              False
                      False False
                                     False
                                            False False
         2
             False
                      False
                           True
                                            False False
                                     True
         3
              False
                      False
                            True
                                     False
                                            False
                                                  True
             False
                      False False
                                            False False
         4
                                     True
              False
                      False False
                                     False
                                            False False
```

In [49]:

emp.isnull().sum

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