```
import warnings
warnings.filterwarnings('ignore')
import pandas as pd
import numpy as np
import seaborn as sns
import matplotlib.pyplot as plt
import plotly.express as px
from google.colab import drive
drive.mount('/content/drive',force remount=True)
Mounted at /content/drive
pd.set option('display.max columns', None)
burnoutDf=pd.read excel('/content/drive/MyDrive/employee burnout analy
sis.xlsx')
burnoutDf
                    Employee ID Date of Joining Gender Company
Type \
  fffe32003000360033003200
                                     2008-09-30
                                                Female
                                                              Service
           fffe3700360033003500
                                     2008-11-30
1
                                                    Male
                                                              Service
2
       fffe31003300320037003900
                                     2008-03-10
                                                 Female
                                                              Product
       fffe32003400380032003900
                                     2008-11-03
                                                    Male
                                                              Service
       fffe31003900340031003600
                                     2008-07-24
                                                  Female
                                                              Service
22745 fffe31003500370039003100
                                     2008-12-30
                                                  Female
                                                              Service
22746 fffe33003000350031003800
                                     2008-01-19
                                                  Female
                                                              Product
22747
               fffe390032003000
                                     2008-11-05
                                                    Male
                                                              Service
                                     2008-01-10
22748 fffe33003300320036003900
                                                  Female
                                                              Service
22749
           fffe3400350031003800
                                     2008-01-06
                                                              Product
                                                    Male
      WFH Setup Available Designation
                                         Resource Allocation
0
                       No
                                      2
                                                         3.0
1
                                      1
                                                         2.0
                      Yes
2
                                      2
                      Yes
                                                         NaN
3
                                      1
                                                         1.0
                      Yes
4
                                      3
                                                         7.0
                       No
```

```
22745
                                                          3.0
                        No
                                      3
22746
                       Yes
                                                          6.0
22747
                       Yes
                                      3
                                                          7.0
                                      2
22748
                        No
                                                          5.0
                                      3
22749
                        No
                                                          6.0
       Mental Fatigue Score
                              Burn Rate
0
                         3.8
                                   0.16
1
                         5.0
                                   0.36
2
                         5.8
                                   0.49
3
                         2.6
                                   0.20
4
                                   0.52
                         6.9
                                    . . .
22745
                                   0.41
                         NaN
                                   0.59
22746
                         6.7
22747
                                   0.72
                         NaN
22748
                         5.9
                                   0.52
22749
                         7.8
                                   0.61
[22750 rows \times 9 columns]
from google.colab import drive
drive.mount('/content/drive')
burnoutDf["Data of Joining"]=pd.to datetime(burnoutDf["Date of
Joining"])
burnoutDf.shape
(22750, 10)
burnoutDf.info()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 22750 entries, 0 to 22749
Data columns (total 10 columns):
#
     Column
                            Non-Null Count
                                             Dtype
0
     Employee ID
                            22750 non-null
                                             object
 1
     Date of Joining
                            22750 non-null
                                             datetime64[ns]
 2
     Gender
                            22750 non-null
                                             object
 3
     Company Type
                            22750 non-null
                                             object
 4
     WFH Setup Available
                            22750 non-null
                                             obiect
 5
     Designation
                            22750 non-null
                                            int64
                            21369 non-null
 6
     Resource Allocation
                                             float64
 7
     Mental Fatique Score 20633 non-null float64
 8
     Burn Rate
                            21626 non-null float64
 9
     Data of Joining
                            22750 non-null datetime64[ns]
dtypes: datetime64[ns](2), float64(3), int64(1), object(4)
memory usage: 1.7+ MB
```

```
burnoutDf.head()
                 Employee ID Date of Joining
                                                 Gender Company Type \
   fffe32003000360033003200
                                                 Female
                                    2008-09-30
                                                              Service
1
       fffe3700360033003500
                                    2008-11-30
                                                   Male
                                                              Service
2
  fffe31003300320037003900
                                    2008-03-10
                                                 Female
                                                              Product
3
  fffe32003400380032003900
                                    2008-11-03
                                                   Male
                                                              Service
4 fffe31003900340031003600
                                    2008-07-24
                                                 Female
                                                              Service
  WFH Setup Available Designation
                                       Resource Allocation
                                                              Mental
Fatigue Score \
                                                         3.0
                     No
                                    2
3.8
1
                                                         2.0
                    Yes
5.0
2
                                                         NaN
                    Yes
5.8
3
                                                         1.0
                    Yes
2.6
4
                     No
                                    3
                                                         7.0
6.9
   Burn Rate Data of Joining
0
        0.16
                    2008-09-30
        0.36
1
                    2008-11-30
2
        0.49
                   2008-03-10
3
        0.20
                    2008-11-03
4
        0.52
                    2008-07-24
burnoutDf.columns
Index(['Employee ID', 'Date of Joining', 'Gender', 'Company Type'
       'WFH Setup Available', 'Designation', 'Resource Allocation', 'Mental Fatigue Score', 'Burn Rate', 'Data of Joining'],
      dtvpe='object')
burnoutDf.isna().sum()
Employee ID
                             0
Date of Joining
                             0
Gender
                             0
                             0
Company Type
WFH Setup Available
                             0
Designation
                             0
Resource Allocation
                          1381
Mental Fatigue Score
                          2117
                          1124
Burn Rate
Data of Joining
dtype: int64
```

```
burnoutDf.duplicated().sum()
0
burnoutDf.describe()
                     Resource Allocation Mental Fatigue Score
        Designation
Burn Rate
count 22750,000000
                             21369.000000
                                                    20633.000000
21626.000000
           2.178725
                                 4.481398
                                                        5.728188
mean
0.452005
                                 2.047211
                                                        1.920839
std
           1.135145
0.198226
                                                        0.000000
min
           0.000000
                                 1.000000
0.000000
25%
                                 3.000000
                                                        4.600000
           1.000000
0.310000
50%
           2.000000
                                 4.000000
                                                        5.900000
0.450000
75%
           3.000000
                                 6,000000
                                                        7.100000
0.590000
           5.000000
                                10.000000
                                                       10.000000
max
1.000000
for i,col in enumerate(burnoutDf.columns):
  print(f"\n\n{burnoutDf[col].unique()}")
  print(f"\n{burnoutDf[col].value counts()}\n\n")
['fffe32003000360033003200' 'fffe3700360033003500'
 'fffe31003300320037003900'
                             ... 'fffe390032003000'
 'fffe33003300320036003900'
                             'fffe3400350031003800']
fffe32003000360033003200
                             1
fffe3600360035003500
                             1
                             1
fffe3800360034003400
fffe31003000310033003600
                             1
fffe31003400350031003700
                             1
fffe33003400340032003400
                             1
fffe32003100370036003600
                             1
fffe31003900310035003800
                             1
fffe32003400320034003200
                             1
fffe3400350031003800
                             1
Name: Employee ID, Length: 22750, dtype: int64
```

```
['2008-09-30T00:00:00.000000000'
                                  '2008-11-30T00:00:00.000000000'
 '2008-03-10T00:00:00.000000000'
                                  '2008-11-03T00:00:00.000000000'
 '2008-07-24T00:00:00.000000000'
                                  '2008-11-26T00:00:00.000000000'
 '2008-01-02T00:00:00.000000000'
                                   '2008-10-31T00:00:00.000000000'
 '2008-12-27T00:00:00.000000000'
                                  '2008-03-09T00:00:00.000000000'
 '2008-03-16T00:00:00.000000000'
                                   '2008-05-12T00:00:00.000000000'
 '2008-01-20T00:00:00.000000000'
                                  '2008-02-23T00:00:00.000000000'
 '2008-05-14T00:00:00.000000000'
                                   '2008-02-03T00:00:00.000000000'
                                   '2008-03-28T00:00:00.000000000'
 '2008-03-17T00:00:00.000000000'
 '2008-05-29T00:00:00.000000000'
                                   '2008-06-27T00:00:00.000000000'
 '2008-08-31T00:00:00.000000000'
                                  '2008-01-15T00:00:00.000000000'
 '2008-05-04T00:00:00.000000000'
                                  '2008-11-17T00:00:00.000000000'
 '2008-09-14T00:00:00.000000000'
                                   '2008-10-09T00:00:00.000000000'
 '2008-10-11T00:00:00.000000000'
                                  '2008-09-18T00:00:00.000000000'
 '2008-09-16T00:00:00.000000000'
                                   '2008-12-16T00:00:00.000000000'
 '2008-05-03T00:00:00.000000000'
                                  '2008-08-04T00:00:00.000000000'
 '2008-07-31T00:00:00.000000000'
                                  '2008-06-17T00:00:00.000000000'
 '2008-04-28T00:00:00.000000000'
                                   '2008-10-30T00:00:00.000000000'
 '2008-02-27T00:00:00.000000000'
                                  '2008-06-22T00:00:00.000000000'
 '2008-02-18T00:00:00.000000000'
                                   '2008-06-24T00:00:00.000000000'
 '2008-12-08T00:00:00.000000000'
                                  '2008-08-05T00:00:00.000000000'
 '2008-04-11T00:00:00.000000000'
                                  '2008-03-26T00:00:00.000000000'
 '2008-08-09T00:00:00.000000000'
                                   '2008-08-28T00:00:00.000000000'
 '2008-03-21T00:00:00.000000000'
                                   '2008-07-22T00:00:00.000000000'
 '2008-05-20T00:00:00.000000000'
                                   '2008-01-23T00:00:00.000000000'
                                  '2008-05-26T00:00:00.000000000'
 '2008-09-10T00:00:00.000000000'
 '2008-12-22T00:00:00.000000000'
                                   '2008-04-08T00:00:00.000000000'
 '2008-02-25T00:00:00.000000000'
                                   '2008-04-24T00:00:00.000000000'
 '2008-01-08T00:00:00.000000000'
                                   '2008-11-20T00:00:00.000000000'
 '2008-09-11T00:00:00.000000000'
                                  '2008-06-11T00:00:00.000000000'
 '2008-02-28T00:00:00.000000000'
                                  '2008-08-20T00:00:00.000000000'
 '2008 - 10 - 18T00 : 00 : 00 . 0000000000 '
                                   '2008-08-14T00:00:00.000000000'
 '2008-07-17T00:00:00.000000000'
                                  '2008-07-05T00:00:00.000000000'
 '2008-02-04T00:00:00.000000000'
                                   '2008-08-01T00:00:00.000000000'
 '2008-05-01T00:00:00.000000000'
                                  '2008-05-21T00:00:00.000000000'
 '2008-10-21T00:00:00.000000000'
                                  '2008-03-19T00:00:00.000000000'
 '2008-09-27T00:00:00.000000000'
                                   '2008-03-12T00:00:00.000000000'
 '2008-09-17T00:00:00.000000000'
                                  '2008-02-13T00:00:00.000000000'
 '2008-09-19T00:00:00.000000000'
                                   '2008-07-03T00:00:00.000000000'
 '2008-10-27T00:00:00.000000000'
                                  '2008-01-22T00:00:00.000000000'
 '2008-04-15T00:00:00.000000000'
                                   '2008-10-26T00:00:00.000000000'
 '2008-01-31T00:00:00.000000000'
                                   '2008-01-03T00:00:00.000000000'
 '2008-03-13T00:00:00.000000000'
                                   '2008-03-27T00:00:00.000000000'
 '2008-11-15T00:00:00.000000000'
                                  '2008-08-17T00:00:00.000000000'
 '2008-08-08T00:00:00.000000000'
                                  '2008-06-28T00:00:00.000000000'
 '2008-05-06T00:00:00.000000000'
                                   '2008-12-17T00:00:00.000000000'
 '2008-09-08T00:00:00.000000000'
                                   '2008-07-04T00:00:00.000000000'
 '2008-10-28T00:00:00.000000000'
                                   '2008-02-19T00:00:00.000000000'
 '2008-02-11T00:00:00.000000000'
                                  '2008-03-02T00:00:00.000000000'
```

```
'2008-08-10T00:00:00.000000000'
                                 '2008-01-04T00:00:00.000000000'
'2008-10-12T00:00:00.000000000'
                                 '2008-11-14T00:00:00.000000000'
'2008-09-02T00:00:00.000000000'
                                 '2008-10-04T00:00:00.000000000'
'2008-05-31T00:00:00.000000000'
                                 '2008-03-03T00:00:00.000000000'
'2008-02-21T00:00:00.000000000'
                                 '2008-12-04T00:00:00.000000000'
'2008-09-05T00:00:00.000000000'
                                 '2008-02-24T00:00:00.000000000'
'2008-12-09T00:00:00.000000000'
                                 '2008-01-19T00:00:00.000000000'
'2008-01-26T00:00:00.000000000'
                                 '2008-05-10T00:00:00.000000000'
                                 '2008-05-07T00:00:00.000000000'
'2008-05-16T00:00:00.000000000'
'2008-10-16T00:00:00.000000000'
                                 '2008-07-09T00:00:00.000000000'
'2008-03-11T00:00:00.000000000'
                                 '2008-08-15T00:00:00.000000000'
'2008-08-25T00:00:00.000000000'
                                 '2008-12-14T00:00:00.000000000'
'2008-04-26T00:00:00.000000000'
                                 '2008-04-03T00:00:00.000000000'
'2008-12-19T00:00:00.000000000'
                                 '2008-08-13T00:00:00.000000000'
'2008-03-08T00:00:00.000000000'
                                 '2008-02-05T00:00:00.000000000'
'2008-02-17T00:00:00.000000000'
                                 '2008-04-16T00:00:00.000000000'
'2008-10-24T00:00:00.000000000'
                                 '2008-03-05T00:00:00.000000000'
'2008-09-25T00:00:00.000000000'
                                 '2008-03-01T00:00:00.000000000'
'2008-05-23T00:00:00.000000000'
                                 '2008-09-07T00:00:00.000000000'
'2008-03-23T00:00:00.000000000'
                                 '2008-01-25T00:00:00.000000000'
'2008-12-29T00:00:00.000000000'
                                 '2008-06-15T00:00:00.000000000'
'2008-10-03T00:00:00.000000000'
                                 '2008-01-17T00:00:00.000000000'
'2008-01-30T00:00:00.000000000'
                                 '2008-10-13T00:00:00.000000000'
'2008-02-08T00:00:00.000000000'
                                 '2008-11-25T00:00:00.000000000'
'2008-04-23T00:00:00.000000000'
                                 '2008-11-07T00:00:00.000000000'
                                 '2008-12-23T00:00:00.000000000'
'2008-06-20T00:00:00.000000000'
'2008-11-24T00:00:00.000000000'
                                 '2008-06-21T00:00:00.000000000'
'2008-11-29T00:00:00.000000000'
                                 '2008-08-11T00:00:00.000000000'
'2008-04-29T00:00:00.000000000'
                                 '2008-11-19T00:00:00.000000000'
'2008-12-25T00:00:00.000000000'
                                 '2008-02-14T00:00:00.000000000'
'2008-03-04T00:00:00.000000000'
                                 '2008-10-06T00:00:00.000000000'
'2008-08-16T00:00:00.000000000'
                                 '2008-10-29T00:00:00.0000000000'
'2008-07-15T00:00:00.000000000'
                                 '2008-04-21T00:00:00.000000000'
'2008-09-01T00:00:00.000000000'
                                 '2008-01-06T00:00:00.000000000'
'2008-03-20T00:00:00.000000000'
                                 '2008-04-14T00:00:00.000000000'
'2008-02-16T00:00:00.000000000'
                                 '2008-10-10T00:00:00.000000000'
'2008-09-26T00:00:00.000000000'
                                 '2008-06-01T00:00:00.000000000'
'2008-07-11T00:00:00.000000000'
                                 '2008-07-23T00:00:00.000000000'
'2008-07-10T00:00:00.000000000'
                                 '2008-10-05T00:00:00.000000000'
'2008-03-14T00:00:00.000000000'
                                 '2008-06-14T00:00:00.000000000'
'2008-10-23T00:00:00.000000000'
                                 '2008-02-22T00:00:00.000000000'
'2008-05-19T00:00:00.000000000'
                                 '2008-09-20T00:00:00.000000000'
'2008-01-18T00:00:00.000000000'
                                 '2008-07-13T00:00:00.000000000'
'2008-11-04T00:00:00.000000000'
                                 '2008-12-05T00:00:00.000000000'
'2008-07-27T00:00:00.0000000000'
                                 '2008-12-07T00:00:00.0000000000'
'2008-06-04T00:00:00.000000000'
                                 '2008-09-09T00:00:00.000000000'
'2008-11-01T00:00:00.000000000'
                                 '2008-01-28T00:00:00.000000000'
'2008-04-04T00:00:00.000000000'
                                 '2008-07-06T00:00:00.000000000'
'2008-12-28T00:00:00.000000000'
                                 '2008-07-08T00:00:00.000000000'
```

```
'2008-01-21T00:00:00.000000000'
                                 '2008-10-19T00:00:00.000000000'
'2008-01-07T00:00:00.000000000'
                                 '2008-12-24T00:00:00.000000000'
'2008-06-09T00:00:00.000000000'
                                 '2008-09-13T00:00:00.000000000'
'2008-10-14T00:00:00.000000000'
                                 '2008-11-08T00:00:00.000000000'
'2008-12-26T00:00:00.000000000'
                                 '2008-05-08T00:00:00.000000000'
'2008-08-12T00:00:00.000000000'
                                 '2008-08-24T00:00:00.000000000'
'2008-09-21T00:00:00.000000000'
                                 '2008-11-10T00:00:00.000000000'
'2008-01-09T00:00:00.000000000'
                                 '2008-05-18T00:00:00.000000000'
'2008-10-08T00:00:00.000000000'
                                 '2008-09-22T00:00:00.000000000'
'2008-08-06T00:00:00.000000000'
                                 '2008-04-30T00:00:00.000000000'
'2008-12-20T00:00:00.000000000'
                                 '2008-04-13T00:00:00.000000000'
'2008-04-12T00:00:00.000000000'
                                 '2008-11-18T00:00:00.000000000'
'2008-02-15T00:00:00.000000000'
                                  '2008-06-07T00:00:00.000000000'
'2008-11-16T00:00:00.000000000'
                                 '2008-06-26T00:00:00.000000000'
'2008-05-11T00:00:00.000000000'
                                 '2008-09-03T00:00:00.000000000'
'2008-03-06T00:00:00.000000000'
                                 '2008-09-24T00:00:00.000000000'
'2008-04-01T00:00:00.000000000'
                                 '2008-05-25T00:00:00.000000000'
'2008-05-22T00:00:00.000000000'
                                  '2008-01-13T00:00:00.000000000'
'2008-06-06T00:00:00.000000000'
                                 '2008-01-16T00:00:00.000000000'
'2008-03-22T00:00:00.000000000'
                                 '2008-04-20T00:00:00.000000000'
'2008-02-02T00:00:00.000000000'
                                 '2008-10-01T00:00:00.000000000'
'2008-10-07T00:00:00.000000000'
                                 '2008-06-03T00:00:00.000000000'
'2008-11-12T00:00:00.000000000'
                                 '2008-08-26T00:00:00.000000000'
'2008-05-17T00:00:00.000000000'
                                 '2008-12-30T00:00:00.000000000'
'2008-06-19T00:00:00.000000000'
                                 '2008-11-22T00:00:00.000000000'
                                 '2008-03-30T00:00:00.000000000'
'2008-05-13T00:00:00.000000000'
'2008-06-16T00:00:00.000000000'
                                 '2008-04-27T00:00:00.000000000'
'2008-07-01T00:00:00.000000000'
                                 '2008-12-15T00:00:00.000000000'
'2008-09-06T00:00:00.000000000'
                                 '2008-04-19T00:00:00.000000000'
'2008-01-12T00:00:00.000000000'
                                 '2008-12-02T00:00:00.000000000'
                                 '2008-07-02T00:00:00.000000000'
'2008-01-24T00:00:00.000000000'
'2008-08-29T00:00:00.000000000'
                                  ' 2008 - 07 - 29T00 : 00 : 00 . 0000000000 '
'2008-06-29T00:00:00.000000000'
                                 '2008-01-11T00:00:00.000000000'
'2008-11-09T00:00:00.000000000'
                                 '2008-07-30T00:00:00.000000000'
'2008-08-23T00:00:00.000000000'
                                 '2008-06-05T00:00:00.000000000'
'2008-09-23T00:00:00.000000000'
                                 '2008-06-18T00:00:00.000000000'
'2008-01-14T00:00:00.000000000'
                                  '2008-12-06T00:00:00.000000000'
'2008-01-10T00:00:00.000000000'
                                 '2008-06-13T00:00:00.000000000'
'2008-07-18T00:00:00.000000000'
                                 '2008-07-28T00:00:00.000000000'
'2008-07-26T00:00:00.000000000'
                                 '2008-01-01T00:00:00.000000000'
'2008-08-27T00:00:00.000000000'
                                 '2008-08-30T00:00:00.000000000'
'2008-04-10T00:00:00.000000000'
                                 '2008-07-14T00:00:00.000000000'
'2008-09-28T00:00:00.000000000'
                                 '2008-04-02T00:00:00.000000000'
'2008-10-15T00:00:00.000000000'
                                 '2008-06-30T00:00:00.000000000'
'2008-03-07T00:00:00.000000000'
                                 '2008-10-22T00:00:00.000000000'
'2008-08-02T00:00:00.000000000'
                                  '2008-03-15T00:00:00.000000000'
'2008-03-18T00:00:00.000000000'
                                 '2008-05-28T00:00:00.000000000'
'2008-02-09T00:00:00.000000000'
                                 '2008-08-22T00:00:00.000000000'
'2008-11-02T00:00:00.000000000'
                                 '2008-04-22T00:00:00.000000000'
```

```
'2008-11-21T00:00:00.000000000'
                                   '2008-02-12T00:00:00.000000000'
 '2008-02-07T00:00:00.000000000'
                                   '2008-07-19T00:00:00.000000000'
 '2008-11-23T00:00:00.000000000'
                                   '2008-07-21T00:00:00.000000000'
 '2008-08-21T00:00:00.000000000'
                                   '2008-11-11T00:00:00.000000000'
 '2008-12-13T00:00:00.000000000'
                                   '2008-04-25T00:00:00.000000000'
 '2008-11-05T00:00:00.000000000'
                                   '2008-08-19T00:00:00.000000000'
 '2008-04-17T00:00:00.000000000'
                                   '2008-08-07T00:00:00.000000000'
 '2008-12-31T00:00:00.000000000'
                                   '2008-05-27T00:00:00.000000000'
                                   '2008-05-30T00:00:00.000000000'
 '2008-09-29T00:00:00.000000000'
 '2008-12-18T00:00:00.000000000'
                                   '2008-02-20T00:00:00.000000000'
 '2008-12-11T00:00:00.000000000'
                                   '2008-11-27T00:00:00.000000000'
 '2008-07-20T00:00:00.0000000000'
                                   '2008-11-28T00:00:00.000000000'
 '2008-08-03T00:00:00.000000000'
                                   '2008-10-20T00:00:00.000000000'
 '2008-07-07T00:00:00.000000000'
                                   '2008-06-08T00:00:00.000000000'
 '2008-03-24T00:00:00.000000000'
                                   '2008-12-21T00:00:00.000000000'
 '2008-04-09T00:00:00.000000000'
                                   '2008-05-05T00:00:00.000000000'
 '2008-06-12T00:00:00.000000000'
                                   '2008-04-18T00:00:00.000000000'
 '2008-01-27T00:00:00.000000000'
                                   '2008-10-17T00:00:00.000000000'
 '2008-05-09T00:00:00.000000000'
                                   '2008-03-29T00:00:00.000000000'
 '2008-09-12T00:00:00.000000000'
                                   '2008-07-25T00:00:00.000000000'
 '2008-04-07T00:00:00.000000000'
                                   '2008-05-02T00:00:00.000000000'
 '2008-06-02T00:00:00.000000000'
                                   '2008-10-02T00:00:00.000000000'
 '2008-02-26T00:00:00.000000000'
                                   '2008-07-12T00:00:00.000000000'
 '2008-02-06T00:00:00.000000000'
                                   '2008-06-23T00:00:00.000000000'
 '2008-11-06T00:00:00.000000000'
                                   '2008-07-16T00:00:00.000000000'
 '2008-06-25T00:00:00.000000000'
                                   '2008-01-29T00:00:00.000000000'
                                   '2008-03-25T00:00:00.000000000'
 '2008-02-29T00:00:00.000000000'
 '2008-08-18T00:00:00.000000000'
                                   '2008-04-05T00:00:00.000000000'
 '2008-05-15T00:00:00.000000000'
                                   '2008-12-12T00:00:00.000000000'
 '2008-10-25T00:00:00.000000000'
                                   '2008-04-06T00:00:00.000000000'
 '2008-11-13T00:00:00.000000000'
                                   '2008-09-04T00:00:00.000000000'
 '2008-05-24T00:00:00.000000000'
                                   '2008-06-10T00:00:00.000000000'
 '2008-03-31T00:00:00.000000000'
                                   '2008-12-01T00:00:00.000000000'
 '2008-01-05T00:00:00.000000000'
                                   '2008-09-15T00:00:00.000000000'
 '2008-12-10T00:00:00.000000000'
                                   '2008-02-10T00:00:00.000000000'
 '2008-12-03T00:00:00.000000000'
                                   '2008-02-01T00:00:00.000000000']
2008-01-06
              86
2008-05-21
              85
2008 - 02 - 04
              82
2008 - 07 - 16
              81
2008-07-13
               80
               44
2008-06-27
2008 - 07 - 06
              44
2008-07-04
              43
2008 - 12 - 24
              43
2008 - 12 - 07
              39
Name: Date of Joining, Length: 366, dtype: int64
```

```
['Female' 'Male']
Female
         11908
Male
          10842
Name: Gender, dtype: int64
['Service' 'Product']
Service
           14833
           7917
Product
Name: Company Type, dtype: int64
['No' 'Yes']
Yes
       12290
No
       10460
Name: WFH Setup Available, dtype: int64
[2 1 3 0 4 5]
2
     7588
3
     5985
1
     4881
4
     2391
0
     1507
5
     398
Name: Designation, dtype: int64
[ 3. 2. nan 1. 7. 4. 6. 5. 8. 10. 9.]
4.0
        3893
5.0
        3861
3.0
        3192
6.0
        2943
2.0
        2075
7.0
        1965
```

```
1.0
        1791
8.0
        1044
9.0
         446
10.0
         159
Name: Resource Allocation, dtype: int64
                      6.9
                            3.6
                                 7.9
                                      4.4
                                                           4.7
                                                                5.9 6.7
[ 3.8
       5.
            5.8
                 2.6
                                           nan
                                                 5.3
                                                      1.8
  4.
       7.6
            6.3
                 7.7
                      6.6
                            7.4
                                 3.9
                                      3.
                                           8.7
                                                 7.3
                                                      5.4
                                                           6.
                                                                7.5 10.
       5.1
            5.6
                 6.1
                      3.1
                            8.
                                 6.8
                                      4.9
                                           9.2
                                                6.5
                                                           8.2
  6.4
                                                      6.2
                                                                4.1
                                                                     4.3
  0.8
       2.9
            2.
                 9.1
                            5.7
                                 8.3
                                      5.5
                                           7.
                                                 3.3
                                                      7.8
                                                           7.2
                                                                5.2
                      0.
       8.1
            8.6
  4.5
                 9.5
                      3.5
                           4.8
                                 2.4
                                      3.7
                                                      9.3
                                                           4.6
                                                                     0.5
                                           1.
                                                 8.8
                                                                9.9
  2.8
            3.4
                 4.2
                      1.6
                            2.7
                                 1.3
                                      3.2
                                           8.4
                                                7.1
                                                      9.4
                                                           2.1
                                                                     2.5
       9.
                                                                9.7
            9.6
                            1.2
                                 8.5
                                     9.8
                                          2.2 1.1
  1.9
       1.7
                 0.7
                      0.2
                                                     0.9 2.3
  1.5
       0.6
            0.3
                 0.1]
6.0
       470
5.8
       464
5.9
       458
       457
6.1
6.3
       454
0.5
        24
0.2
        23
0.4
        19
0.1
        17
0.3
        13
Name: Mental Fatigue Score, Length: 101, dtype: int64
[0.16 0.36 0.49 0.2 0.52 0.29 0.62 0.33 0.56 0.67 0.5 0.12 0.4 0.51
0.32 0.39 0.59 0.22 0.68 0.57 0.47 0.46 0.61 0.91 0.44 0.6
                                                               0.45 0.19
0.31 0.81 0.42 0.53 nan 0.94 0.37 0.65 0.38 0.15 0.26 0.28 0.71 0.8
0.63 0.79 0.72 0.34 0.27 0.66 0.04 0.05 0.11 0.41 0.76 0.43 0.85 0.35
      0.55 0.48 0.7 0.18 0.23 0.25 0.75 0.1 0.73 0.58 0.88 0.77 0.3
 0.06 0.03 0.69 0.24 0.74 0.86 0.92 0.78 0.21 0.98 0.02 0.82 0.93 0.83
 0.87 0.64 0.54 0.17 1. 0.08 0.09 0.14 0.13 0.07 0.84 0.99 0.01 0.97
0.95 0.9 0.96 0.89]
0.47
        475
0.43
        444
0.41
        434
0.45
        431
0.50
        428
0.98
        18
```

```
0.97
         17
0.95
         17
0.96
         13
0.99
          8
Name: Burn Rate, Length: 101, dtype: int64
['2008-09-30T00:00:00.0000000000'
                                   '2008-11-30T00:00:00.000000000'
 '2008-03-10T00:00:00.0000000000'
                                   '2008-11-03T00:00:00.000000000'
 '2008-07-24T00:00:00.000000000'
                                   '2008-11-26T00:00:00.000000000'
 '2008-01-02T00:00:00.000000000'
                                   '2008-10-31T00:00:00.000000000'
                                   '2008-03-09T00:00:00.000000000'
 '2008-12-27T00:00:00.000000000'
 '2008-03-16T00:00:00.000000000'
                                   '2008-05-12T00:00:00.000000000'
 '2008-01-20T00:00:00.000000000'
                                   '2008-02-23T00:00:00.000000000'
 '2008-05-14T00:00:00.000000000'
                                   '2008-02-03T00:00:00.000000000'
 '2008-03-17T00:00:00.000000000'
                                   '2008-03-28T00:00:00.000000000'
 '2008-05-29T00:00:00.000000000'
                                   '2008-06-27T00:00:00.000000000'
 '2008-08-31T00:00:00.000000000'
                                   '2008-01-15T00:00:00.000000000'
 '2008-05-04T00:00:00.000000000'
                                   '2008-11-17T00:00:00.000000000'
 '2008-09-14T00:00:00.000000000'
                                   '2008-10-09T00:00:00.000000000'
 '2008-10-11T00:00:00.000000000'
                                   '2008-09-18T00:00:00.000000000'
 '2008-09-16T00:00:00.000000000'
                                   '2008-12-16T00:00:00.000000000'
 '2008-05-03T00:00:00.000000000'
                                   '2008-08-04T00:00:00.000000000'
 '2008-07-31T00:00:00.000000000'
                                   '2008-06-17T00:00:00.000000000'
 '2008-04-28T00:00:00.000000000'
                                   '2008-10-30T00:00:00.000000000'
                                   '2008-06-22T00:00:00.000000000'
 '2008-02-27T00:00:00.000000000'
 '2008-02-18T00:00:00.000000000'
                                   '2008-06-24T00:00:00.000000000'
 '2008-12-08T00:00:00.000000000'
                                   '2008-08-05T00:00:00.000000000'
 '2008-04-11T00:00:00.000000000'
                                   '2008-03-26T00:00:00.000000000'
 '2008-08-09T00:00:00.000000000'
                                   '2008-08-28T00:00:00.000000000'
 '2008-03-21T00:00:00.000000000'
                                   '2008-07-22T00:00:00.000000000'
 '2008-05-20T00:00:00.000000000'
                                   '2008-01-23T00:00:00.000000000'
 '2008-09-10T00:00:00.000000000'
                                   '2008-05-26T00:00:00.000000000'
 '2008-12-22T00:00:00.000000000'
                                   '2008-04-08T00:00:00.000000000'
 '2008-02-25T00:00:00.000000000'
                                   '2008-04-24T00:00:00.000000000'
 '2008-01-08T00:00:00.000000000'
                                   '2008-11-20T00:00:00.000000000'
 '2008-09-11T00:00:00.000000000'
                                   '2008-06-11T00:00:00.000000000'
 '2008-02-28T00:00:00.000000000'
                                   '2008-08-20T00:00:00.000000000'
 '2008-10-18T00:00:00.000000000'
                                   '2008-08-14T00:00:00.000000000'
 '2008-07-17T00:00:00.000000000'
                                   '2008-07-05T00:00:00.000000000'
 '2008-02-04T00:00:00.000000000'
                                   '2008-08-01T00:00:00.000000000'
 '2008-05-01T00:00:00.000000000'
                                   '2008-05-21T00:00:00.000000000'
 '2008-10-21T00:00:00.000000000'
                                   '2008-03-19T00:00:00.000000000'
 '2008-09-27T00:00:00.000000000'
                                   '2008-03-12T00:00:00.000000000'
 '2008-09-17T00:00:00.000000000'
                                   '2008-02-13T00:00:00.000000000'
 '2008-09-19T00:00:00.000000000'
                                   '2008-07-03T00:00:00.0000000000'
 '2008-10-27T00:00:00.000000000'
                                   '2008-01-22T00:00:00.000000000'
 '2008-04-15T00:00:00.000000000'
                                   '2008-10-26T00:00:00.000000000'
```

```
'2008-01-31T00:00:00.000000000'
                                 '2008-01-03T00:00:00.000000000'
'2008-03-13T00:00:00.000000000'
                                 '2008-03-27T00:00:00.000000000'
'2008-11-15T00:00:00.000000000'
                                 '2008-08-17T00:00:00.000000000'
'2008-08-08T00:00:00.000000000'
                                  '2008-06-28T00:00:00.000000000'
'2008-05-06T00:00:00.000000000'
                                 '2008-12-17T00:00:00.000000000'
'2008-09-08T00:00:00.000000000'
                                  '2008-07-04T00:00:00.000000000'
'2008-10-28T00:00:00.000000000'
                                 '2008-02-19T00:00:00.000000000'
'2008-02-11T00:00:00.000000000'
                                  '2008-03-02T00:00:00.000000000'
                                  '2008-01-04T00:00:00.000000000'
'2008-08-10T00:00:00.000000000'
'2008-10-12T00:00:00.000000000'
                                  '2008-11-14T00:00:00.000000000'
'2008-09-02T00:00:00.000000000'
                                 '2008 - 10 - 04T00 : 00 : 00 . 0000000000 '
'2008-05-31T00:00:00.000000000'
                                 '2008-03-03T00:00:00.000000000'
'2008-02-21T00:00:00.000000000'
                                  '2008-12-04T00:00:00.000000000'
'2008-09-05T00:00:00.000000000'
                                 '2008-02-24T00:00:00.000000000'
'2008-12-09T00:00:00.000000000'
                                  '2008-01-19T00:00:00.000000000'
'2008-01-26T00:00:00.000000000'
                                 '2008-05-10T00:00:00.000000000'
'2008-05-16T00:00:00.000000000'
                                 '2008-05-07T00:00:00.000000000'
'2008-10-16T00:00:00.000000000'
                                  '2008-07-09T00:00:00.000000000'
'2008-03-11T00:00:00.000000000'
                                 '2008-08-15T00:00:00.000000000'
'2008-08-25T00:00:00.000000000'
                                  '2008-12-14T00:00:00.000000000'
'2008-04-26T00:00:00.000000000'
                                 '2008-04-03T00:00:00.000000000'
'2008-12-19T00:00:00.000000000'
                                 '2008-08-13T00:00:00.000000000'
'2008-03-08T00:00:00.000000000'
                                  '2008-02-05T00:00:00.000000000'
'2008-02-17T00:00:00.000000000'
                                  '2008-04-16T00:00:00.000000000'
'2008-10-24T00:00:00.000000000'
                                  '2008-03-05T00:00:00.000000000'
                                 '2008-03-01T00:00:00.000000000'
'2008-09-25T00:00:00.000000000'
'2008-05-23T00:00:00.000000000'
                                  '2008-09-07T00:00:00.000000000'
'2008-03-23T00:00:00.000000000'
                                  '2008-01-25T00:00:00.000000000'
'2008-12-29T00:00:00.000000000'
                                  '2008-06-15T00:00:00.000000000'
'2008-10-03T00:00:00.000000000'
                                 '2008-01-17T00:00:00.000000000'
                                 '2008-10-13T00:00:00.000000000'
'2008-01-30T00:00:00.000000000'
'2008-02-08T00:00:00.0000000000'
                                  '2008-11-25T00:00:00.0000000000'
'2008-04-23T00:00:00.000000000'
                                 '2008-11-07T00:00:00.000000000'
'2008-06-20T00:00:00.000000000'
                                  '2008-12-23T00:00:00.000000000'
'2008-11-24T00:00:00.000000000'
                                 '2008-06-21T00:00:00.000000000'
'2008-11-29T00:00:00.000000000'
                                 '2008-08-11T00:00:00.000000000'
'2008-04-29T00:00:00.000000000'
                                  '2008-11-19T00:00:00.000000000'
'2008-12-25T00:00:00.000000000'
                                 '2008-02-14T00:00:00.000000000'
'2008-03-04T00:00:00.000000000'
                                  '2008-10-06T00:00:00.000000000'
'2008-08-16T00:00:00.000000000'
                                 '2008-10-29T00:00:00.000000000'
'2008-07-15T00:00:00.000000000'
                                  '2008-04-21T00:00:00.000000000'
'2008-09-01T00:00:00.000000000'
                                  '2008-01-06T00:00:00.000000000'
'2008-03-20T00:00:00.000000000'
                                 '2008-04-14T00:00:00.000000000'
'2008-02-16T00:00:00.000000000'
                                 '2008 - 10 - 10T00 : 00 : 00 . 0000000000 '
'2008-09-26T00:00:00.000000000'
                                 '2008-06-01T00:00:00.000000000'
'2008-07-11T00:00:00.000000000'
                                  '2008-07-23T00:00:00.000000000'
'2008-07-10T00:00:00.000000000'
                                 '2008-10-05T00:00:00.000000000'
'2008-03-14T00:00:00.000000000'
                                  '2008-06-14T00:00:00.000000000'
'2008-10-23T00:00:00.000000000'
                                 '2008-02-22T00:00:00.000000000'
```

```
'2008-05-19T00:00:00.000000000'
                                 '2008-09-20T00:00:00.000000000'
'2008-01-18T00:00:00.000000000'
                                 '2008-07-13T00:00:00.000000000'
'2008-11-04T00:00:00.000000000'
                                 '2008-12-05T00:00:00.000000000'
'2008-07-27T00:00:00.000000000'
                                 '2008-12-07T00:00:00.000000000'
'2008-06-04T00:00:00.000000000'
                                 '2008-09-09T00:00:00.000000000'
'2008-11-01T00:00:00.000000000'
                                 '2008-01-28T00:00:00.000000000'
'2008-04-04T00:00:00.000000000'
                                 '2008-07-06T00:00:00.000000000'
'2008-12-28T00:00:00.000000000'
                                 '2008-07-08T00:00:00.000000000'
'2008-01-21T00:00:00.000000000'
                                 '2008-10-19T00:00:00.000000000'
'2008-01-07T00:00:00.000000000'
                                 '2008-12-24T00:00:00.000000000'
'2008-06-09T00:00:00.000000000'
                                 '2008-09-13T00:00:00.000000000'
'2008-10-14T00:00:00.000000000'
                                 '2008-11-08T00:00:00.000000000'
'2008-12-26T00:00:00.000000000'
                                 '2008-05-08T00:00:00.000000000'
'2008-08-12T00:00:00.000000000'
                                 '2008-08-24T00:00:00.000000000'
'2008-09-21T00:00:00.000000000'
                                 '2008-11-10T00:00:00.000000000'
'2008-01-09T00:00:00.000000000'
                                 '2008-05-18T00:00:00.000000000'
'2008-10-08T00:00:00.000000000'
                                 '2008-09-22T00:00:00.000000000'
'2008-08-06T00:00:00.000000000'
                                 '2008-04-30T00:00:00.000000000'
'2008-12-20T00:00:00.000000000'
                                 '2008-04-13T00:00:00.000000000'
'2008-04-12T00:00:00.000000000'
                                 '2008-11-18T00:00:00.000000000'
                                 '2008-06-07T00:00:00.000000000'
'2008-02-15T00:00:00.000000000'
'2008-11-16T00:00:00.000000000'
                                 '2008-06-26T00:00:00.000000000'
'2008-05-11T00:00:00.000000000'
                                 '2008-09-03T00:00:00.000000000'
'2008-03-06T00:00:00.000000000'
                                 '2008-09-24T00:00:00.000000000'
'2008-04-01T00:00:00.000000000'
                                 '2008-05-25T00:00:00.000000000'
                                 '2008-01-13T00:00:00.000000000'
'2008-05-22T00:00:00.000000000'
'2008-06-06T00:00:00.000000000'
                                 '2008-01-16T00:00:00.000000000'
'2008-03-22T00:00:00.000000000'
                                 '2008-04-20T00:00:00.000000000'
'2008-02-02T00:00:00.000000000'
                                 '2008-10-01T00:00:00.000000000'
'2008-10-07T00:00:00.000000000'
                                 '2008-06-03T00:00:00.000000000'
'2008-11-12T00:00:00.000000000'
                                 '2008-08-26T00:00:00.000000000'
'2008-05-17T00:00:00.0000000000'
                                 '2008-12-30T00:00:00.0000000000'
'2008-06-19T00:00:00.000000000'
                                 '2008-11-22T00:00:00.000000000'
'2008-05-13T00:00:00.000000000'
                                 '2008-03-30T00:00:00.000000000'
'2008-06-16T00:00:00.000000000'
                                 '2008-04-27T00:00:00.000000000'
'2008-07-01T00:00:00.000000000'
                                 '2008-12-15T00:00:00.000000000'
'2008-09-06T00:00:00.000000000'
                                 '2008-04-19T00:00:00.000000000'
'2008-01-12T00:00:00.000000000'
                                 '2008-12-02T00:00:00.000000000'
'2008-01-24T00:00:00.000000000'
                                 '2008-07-02T00:00:00.000000000'
'2008-08-29T00:00:00.000000000'
                                 '2008-07-29T00:00:00.000000000'
'2008-06-29T00:00:00.000000000'
                                 '2008-01-11T00:00:00.000000000'
'2008-11-09T00:00:00.000000000'
                                 '2008-07-30T00:00:00.000000000'
'2008-08-23T00:00:00.000000000'
                                 '2008-06-05T00:00:00.000000000'
'2008-09-23T00:00:00.000000000'
                                 '2008-06-18T00:00:00.000000000'
'2008-01-14T00:00:00.000000000'
                                 '2008-12-06T00:00:00.000000000'
'2008-01-10T00:00:00.000000000'
                                 '2008-06-13T00:00:00.000000000'
'2008-07-18T00:00:00.000000000'
                                 '2008-07-28T00:00:00.000000000'
'2008-07-26T00:00:00.000000000'
                                 '2008-01-01T00:00:00.000000000'
'2008-08-27T00:00:00.000000000'
                                 '2008-08-30T00:00:00.000000000'
```

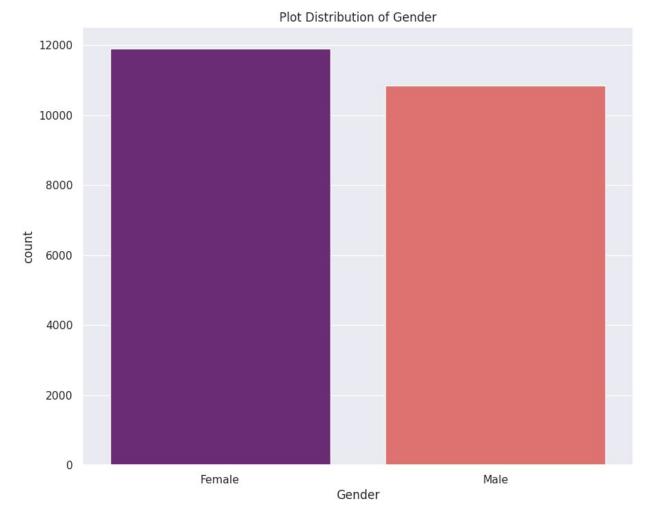
```
'2008-04-10T00:00:00.000000000'
                                   '2008-07-14T00:00:00.000000000'
 '2008-09-28T00:00:00.000000000'
                                   '2008-04-02T00:00:00.000000000'
 '2008-10-15T00:00:00.000000000'
                                   '2008-06-30T00:00:00.000000000'
 '2008-03-07T00:00:00.000000000'
                                   '2008-10-22T00:00:00.000000000'
 '2008-08-02T00:00:00.000000000'
                                   '2008-03-15T00:00:00.000000000'
 '2008-03-18T00:00:00.000000000'
                                   '2008-05-28T00:00:00.000000000'
 '2008-02-09T00:00:00.000000000'
                                   '2008-08-22T00:00:00.000000000'
 '2008-11-02T00:00:00.000000000'
                                   '2008-04-22T00:00:00.000000000'
                                   '2008-02-12T00:00:00.000000000'
 '2008-11-21T00:00:00.000000000'
 '2008-02-07T00:00:00.000000000'
                                   '2008-07-19T00:00:00.000000000'
 '2008-11-23T00:00:00.000000000'
                                   '2008-07-21T00:00:00.000000000'
 '2008-08-21T00:00:00.000000000'
                                   '2008-11-11T00:00:00.000000000'
 '2008-12-13T00:00:00.000000000'
                                   '2008-04-25T00:00:00.000000000'
 '2008-11-05T00:00:00.000000000'
                                   '2008-08-19T00:00:00.000000000'
 '2008-04-17T00:00:00.000000000'
                                   '2008-08-07T00:00:00.000000000'
 '2008-12-31T00:00:00.000000000'
                                   '2008-05-27T00:00:00.000000000'
 '2008-09-29T00:00:00.000000000'
                                   '2008-05-30T00:00:00.000000000'
 '2008-12-18T00:00:00.000000000'
                                   '2008-02-20T00:00:00.000000000'
 '2008-12-11T00:00:00.000000000'
                                   '2008-11-27T00:00:00.000000000'
 '2008-07-20T00:00:00.000000000'
                                   '2008-11-28T00:00:00.000000000'
 '2008-08-03T00:00:00.000000000'
                                   '2008-10-20T00:00:00.000000000'
 '2008-07-07T00:00:00.000000000'
                                   '2008-06-08T00:00:00.000000000'
 '2008-03-24T00:00:00.000000000'
                                   '2008-12-21T00:00:00.000000000'
 '2008-04-09T00:00:00.000000000'
                                   '2008-05-05T00:00:00.000000000'
 '2008-06-12T00:00:00.000000000'
                                   '2008-04-18T00:00:00.000000000'
                                   '2008-10-17T00:00:00.000000000'
 '2008-01-27T00:00:00.000000000'
 '2008-05-09T00:00:00.000000000'
                                   '2008-03-29T00:00:00.000000000'
 '2008-09-12T00:00:00.000000000'
                                   '2008-07-25T00:00:00.000000000'
 '2008-04-07T00:00:00.000000000'
                                   '2008-05-02T00:00:00.000000000'
 '2008-06-02T00:00:00.000000000'
                                   '2008-10-02T00:00:00.000000000'
                                   '2008-07-12T00:00:00.000000000'
 '2008-02-26T00:00:00.000000000'
 '2008-02-06T00:00:00.000000000'
                                   '2008-06-23T00:00:00.0000000000'
 '2008-11-06T00:00:00.000000000'
                                   '2008-07-16T00:00:00.000000000'
 '2008-06-25T00:00:00.000000000'
                                   '2008-01-29T00:00:00.000000000'
 '2008-02-29T00:00:00.000000000'
                                   '2008-03-25T00:00:00.000000000'
 '2008-08-18T00:00:00.000000000'
                                   '2008-04-05T00:00:00.000000000'
 '2008-05-15T00:00:00.000000000'
                                   '2008-12-12T00:00:00.000000000'
 '2008-10-25T00:00:00.000000000'
                                   '2008-04-06T00:00:00.000000000'
 '2008-11-13T00:00:00.000000000'
                                   '2008-09-04T00:00:00.000000000'
 '2008-05-24T00:00:00.000000000'
                                   '2008-06-10T00:00:00.000000000'
 '2008-03-31T00:00:00.000000000'
                                   '2008-12-01T00:00:00.000000000'
 '2008-01-05T00:00:00.000000000'
                                   '2008-09-15T00:00:00.000000000'
 '2008-12-10T00:00:00.000000000'
                                   '2008-02-10T00:00:00.000000000'
 '2008-12-03T00:00:00.000000000'
                                   '2008-02-01T00:00:00.000000000'1
2008-01-06
              86
2008-05-21
              85
              82
2008-02-04
2008-07-16
              81
2008 - 07 - 13
              80
```

```
2008-06-27
              44
2008-07-06
              44
2008-07-04
              43
2008 - 12 - 24
              43
2008 - 12 - 07
              39
Name: Data of Joining, Length: 366, dtype: int64
burnoutDf.drop(['Employee ID'],axis=1)
      Date of Joining Gender Company Type WFH Setup Available
Designation \
           2008-09-30 Female
                                     Service
                                                               No
1
           2008-11-30
                          Male
                                     Service
                                                              Yes
1
2
           2008-03-10 Female
                                     Product
                                                              Yes
2
3
           2008-11-03
                                     Service
                                                              Yes
                          Male
1
4
           2008-07-24 Female
                                     Service
                                                               No
3
. . .
           2008-12-30 Female
22745
                                     Service
                                                               No
22746
           2008-01-19 Female
                                     Product
                                                              Yes
                                     Service
22747
           2008-11-05
                          Male
                                                              Yes
22748
           2008-01-10 Female
                                     Service
                                                               No
2
22749
           2008-01-06
                          Male
                                     Product
                                                               No
       Resource Allocation Mental Fatigue Score Burn Rate Data of
Joining
                        3.0
                                               3.8
                                                          0.16
                                                                    2008 -
09-30
                        2.0
                                               5.0
                                                          0.36
                                                                    2008 -
11 - 30
                        NaN
                                               5.8
                                                          0.49
                                                                    2008 -
03-10
                        1.0
                                               2.6
                                                          0.20
                                                                    2008 -
11 - 03
                        7.0
                                               6.9
                                                                    2008 -
                                                          0.52
07-24
```

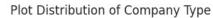
. . .

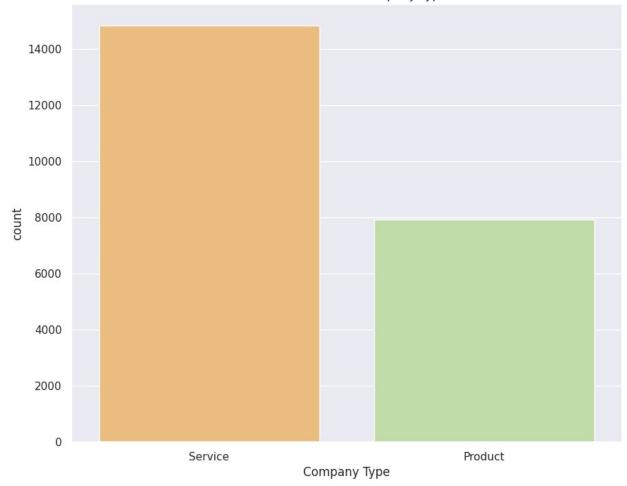
```
3.0
                                              NaN
                                                        0.41
22745
                                                                   2008 -
12 - 30
                       6.0
                                              6.7
22746
                                                        0.59
                                                                   2008 -
01 - 19
22747
                       7.0
                                              NaN
                                                        0.72
                                                                   2008 -
11-05
22748
                       5.0
                                              5.9
                                                        0.52
                                                                   2008 -
01 - 10
22749
                       6.0
                                              7.8
                                                        0.61
                                                                   2008 -
01 - 06
[22750 rows x 9 columns]
intFloatburnoutDf=burnoutDf.select dtypes([np.int,np.float])
for i, col in enumerate(intFloatburnoutDf.columns):
  if(intFloatburnoutDf[col].skew()>=0.1):
    print("\n",col,"feature is Positively Skewed and value
is:",intFloatburnoutDf[col].skew())
  elif(intFloatburnoutDf[col].skew()>=0.1):
   print("\n",col,"feature is Negatively Skewed and value
is:",intFloatburnoutDf[col].skew())
  else:
    print("\n",col,"feature is Skewed Normally Distributed and value
is:",intFloatburnoutDf[col].skew())
Designation feature is Skewed Normally Distributed and value is:
0.09242138478903683
 Resource Allocation feature is Positively Skewed and value is:
0.20457273454318103
Mental Fatigue Score feature is Skewed Normally Distributed and
value is: -0.4308950578815428
 Burn Rate feature is Skewed Normally Distributed and value is:
0.045737370909640515
burnoutDf['Resource Allocation'].fillna(burnoutDf['Resource
Allocation'].mean(),inplace=True)
burnoutDf['Mental Fatigue Score'].fillna(burnoutDf['Mental Fatigue
Score'l.mean(),inplace=True)
burnoutDf['Burn Rate'].fillna(burnoutDf['Burn
Rate'].mean(),inplace=True)
burnoutDf.isna().sum()
Employee ID
                        0
Date of Joining
                        0
Gender
                        0
```

```
Company Type
                        0
WFH Setup Available
                        0
Designation
                        0
Resource Allocation
                        0
Mental Fatique Score
                        0
Burn Rate
                        0
Data of Joining
                        0
dtype: int64
burnoutDf.corr()
                      Designation
                                   Resource Allocation Mental Fatigue
Score \
Designation
                         1.000000
                                               0.852046
0.656445
Resource Allocation
                         0.852046
                                               1.000000
0.739268
Mental Fatigue Score
                                               0.739268
                         0.656445
1.000000
Burn Rate
                         0.719284
                                               0.811062
0.878217
                      Burn Rate
Designation
                       0.719284
Resource Allocation
                       0.811062
Mental Fatigue Score
                       0.878217
Burn Rate
                       1.000000
Corr=burnoutDf.corr()
sns.set(rc={'figure.figsize':(14,12)})
fig=px.imshow(Corr,text auto=True,aspect="auto")
fig.show()
plt.figure(figsize=(10,8))
sns.countplot(x="Gender",data=burnoutDf,palette="magma")
plt.title("Plot Distribution of Gender")
plt.show()
```



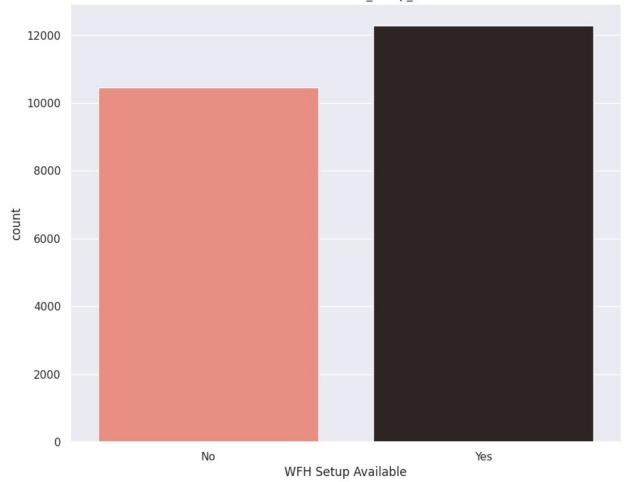
```
plt.figure(figsize=(10,8))
sns.countplot(x="Company Type",data=burnoutDf,palette='Spectral')
plt.title("Plot Distribution of Company Type")
plt.show()
```





```
plt.figure(figsize=(10,8))
sns.countplot(x="WFH Setup
Available",data=burnoutDf,palette="dark:salmon_r")
plt.title("Plot Distribution of WFH_Setup_Available")
plt.show()
```





```
burn_st=burnoutDf.loc[:,'Date of Joining':'Burn Rate']
burn st=burn st.select dtypes([int,float])
for i,col in enumerate(burn st.columns):
  fig = px.histogram(burn st,x=col,title="Plot Distribution of
"+col,color_discrete_sequence=['indianred'])
  fig.update layout(bargap=0.2)
  fig.show()
fig=px.line(burnoutDf, y="Burn Rate",color="Designation",title="Burn
rate on the basis of
Designation",color_discrete_sequence=px.colors.qualitative.Pastel1)
fig.update layout(bargap=0.2)
fig.show()
fig = px.line(burnoutDf, y="Burn Rate",color='Gender',title="Burn rate")
on the basis of
Gender",color_discrete_sequence=px.colors.qualitative.Pastel)
fig.update layout(bargap=0.2)
fig.show()
```

```
fig = px.line(burnoutDf, y="Mental Fatigue
Score",color='Designation',title="Mental fatigue vs
Designation",color_discrete_sequence=px.colors.qualitative.Pastel)
fig.update_layout(bargap=0.2)
fig.show()
sns.relplot(
    data=burnoutDf, x="Designation",y="Mental Fatigue
Score",col='Company Type',
    hue="Company Type', size="Burn Rate",style='Gender',
    palette=["g","r"],sizes=(50,200)
)
```



```
from sklearn import preprocessing
k=Label_encode=preprocessing.LabelEncoder()
Label_encode=preprocessing.LabelEncoder()
burnoutDf['GenderLabel']=Label_encode.fit_transform(burnoutDf["Gender"].values)
burnoutDf['Company_TypeLabel']=Label_encode.fit_transform(burnoutDf['Company Type'].values)
burnoutDf['WFH_Setup_AvailableLabel']=Label_encode.fit_transform(burnoutDf["WFH Setup Available"].values)
gn=burnoutDf.groupby('Gender')
gn=gn['GenderLabel']
gn.first()

Gender
Female 0
```

```
Male
Name: GenderLabel, dtype: int64
ct=burnoutDf.groupby('Company Type')
ct=ct['Company TypeLabel']
ct.first()
Company Type
1
Name: Company_TypeLabel, dtype: int64
wsa=burnoutDf.groupby('WFH Setup Available')
wsa=wsa['WFH Setup AvailableLabel']
wsa.first()
WFH Setup Available
     1
1
Name: WFH Setup AvailableLabel, dtype: int64
burnoutDf.tail(10)
                    Employee ID Date of Joining Gender
                                                           Company Type
22740
      fffe33003300380031003100
                                      2008-09-05
                                                  Female
                                                                      0
      fffe31003600350034003800
22741
                                      2008-01-07
                                                                      0
                                                    Male
22742 fffe33003200310039003000
                                      2008-07-28
                                                    Male
                                                                      0
22743
           fffe3300390030003600
                                      2008-12-15
                                                  Female
                                                                      0
22744
      fffe32003500370033003200
                                      2008-05-27
                                                    Male
                                                                      0
                                                                      1
22745
      fffe31003500370039003100
                                      2008-12-30
                                                  Female
22746
      fffe33003000350031003800
                                      2008-01-19
                                                  Female
                                                                      0
22747
               fffe390032003000
                                      2008-11-05
                                                    Male
                                                                      1
      fffe33003300320036003900
                                                                      1
22748
                                      2008-01-10
                                                  Female
22749
           fffe3400350031003800
                                      2008-01-06
                                                                      0
                                                    Male
       WFH Setup Available
                             Designation
                                          Resource Allocation \
22740
                                       3
                          0
                                                           6.0
                                       2
22741
                          0
                                                           5.0
22742
                                       3
                          0
                                                           5.0
                                       1
22743
                          1
                                                           3.0
22744
                                       3
                                                           7.0
```

22745 22746 22747 22748 22749		0 1 1 0 0	3	L 3 3 2		3.0 6.0 7.0 5.0 6.0	
22740 22741 22742 22743 22744 22745 22746 22747 22748 22749		ue Score 7.300000 6.000000 8.100000 6.200000 5.728188 6.700000 5.728188 5.900000 7.800000	Burn Rate 0.550000 0.452005 0.690000 0.480000 0.540000 0.410000 0.720000 0.720000 0.520000 0.610000	Data	of Joining 2008-09-05 2008-01-07 2008-07-28 2008-12-15 2008-05-27 2008-12-30 2008-01-19 2008-01-10 2008-01-06	GenderLabel 0 1 1 0 1 0 1 0 1 0 1 1 0 1	\
22740 22741 22742 22743 22744 22745 22746 22747 22748 22749	Company Type	Label Con 0 0 0 0 1 0 1 1 0	npany_Typel	_abel 0 0 0 0 1 0 1			
<pre>Columns=['Designation','Resource Allocation','Mental Fatigue Score',</pre>							
Designation Resource Allocation Mental Fatigue Score GenderLabel \							
0	Label \		3.000000)	3.	800000	
0 1	1		2.00000)	5.	000000	
1 1 2	2		4.481398	3	5.	800000	
0							
3	1		1.000000			600000	
4 0	3		7.000000)	6.	900000	

```
22745
                                 3.000000
                                                        5.728188
22746
                                 6.000000
                                                        6.700000
22747
                                 7,000000
                                                        5.728188
1
22748
                                 5.000000
                                                        5.900000
22749
                                 6.000000
                                                        7.800000
       Company_TypeLabel
                           WFH Setup AvailableLabel
0
                        1
1
                        1
                                                    1
2
                        0
                                                    1
3
                        1
                                                    1
4
                        1
                                                    0
22745
                        1
                                                    0
22746
                        0
                                                    1
                        1
                                                    1
22747
22748
                        1
                                                    0
22749
[22750 rows x 6 columns]
print(y)
0
         0.16
         0.36
1
2
         0.49
3
         0.20
4
         0.52
22745
         0.41
22746
         0.59
22747
         0.72
22748
         0.52
22749
         0.61
Name: Burn Rate, Length: 22750, dtype: float64
from sklearn.decomposition import PCA
pca=PCA(0.95)
x_pca=pca.fit_transform(x)
print("PCA shape of X is:",x_pca.shape, 'and orignal shape
is:',x.shape)
print("% of importance of selected features
is:",pca.explained_variance_ratio_)
```

```
print("The number of features selected through PCA
is:",pca.n components )
PCA shape of X is: (22750, 4) and orignal shape is: (22750, 6)
% of importance of selected features is: [0.78371089 0.11113597
0.03044541 0.026324221
The number of features selected through PCA is: 4
from sklearn.model selection import train test split
X train pca, X test, Y train, Y test=train test split(x pca, y, test size=0
.25, random state=10)
print(X train pca.shape, X test.shape, Y train.shape, Y test.shape)
(17062, 4) (5688, 4) (17062,) (5688,)
from sklearn.metrics import r2 score
from sklearn.ensemble import RandomForestRegressor
rf model=RandomForestRegressor()
rf model.fit(X train pca,Y train)
train pred rf=rf model.predict(X train pca)
train r2=r2 score(Y train, train pred rf)
test pred rf=rf model.predict(X test)
test r2=r2 score(Y test, test pred rf)
print("Accurarcy score of train data:"+str(round(100*train r2,4))+"%")
print("Accurarcy score of test data:"+str(round(100*test r2,4))+"%")
Accurarcy score of train data:91.197%
Accurarcy score of test data:83.8473%
from sklearn.ensemble import AdaBoostRegressor
abr model=AdaBoostRegressor()
abr model.fit(X_train_pca,Y_train)
train pred adboost=abr model.predict(X train pca)
train r2=r2 score(Y train, train pred adboost)
test pred adaboost=abr model.predict(X test)
test r2=r2 score(Y test,test pred adaboost)
print("Accurarcy score of train data:"+str(round(100*train_r2,4))+"%")
print("Accurarcy score of test data:"+str(round(100*test r2,4))+"%")
Accurarcy score of train data:77.7957%
Accurarcy score of test data:77.2712%
```