Date

Work-

₹

#Descriptive

```
import pandas as pd
df=pd.read_csv('/content/employee_experience_survey_data.csv')
df.head()
```

```
Job
                                                                                                           Management
                     Age
                                                     Job
                                                                                                                                  Team
                           Gender Ethnicity
                                                          Department
                                                                          Survey
                                                                                                     Life
                 Bracket
                                                                                                              Support Collaboration
                                                  Title
                                                                                  Satisfaction
                                                                       Completed
                                                                                                 Balance
           John
                                                 Product
                                                              Product
                                                                                                  Strongly
     0
                    25-34
                           Female
                                                                       2024-10-05
                                                                                        Disagree
                                                                                                                                Neutral
                                        Asian
                                                                                                                Neutral
                                                          Development
            Doe
                                                 Manager
                                                                                                    Agree
           Jane
                                        Middle
                                               Operations
                                                                                                  Strongly
                                                                                                               Strongly
                    18-24
                                                                Sales
                                                                       2024-10-07
                                                                                                                                Neutral
                                                                                           Agree
          Smith
                                       Fastern
                                                 Manager
                                                                                                  Disagree
                                                                                                                 Agree
          Carlos
                                                     UX
                                                                                                  Strongly
                    45-54
                           Female
                                        Indian
                                                            Consulting
                                                                       2024-10-08
                                                                                          Neutral
                                                                                                                 Agree
                                                                                                                               Disagree
                                                                                                  Disagree
                                                Designer
          Reyes
           Emily
                                                     UX
                                                                                                                               Strongly
                                                                  HR
                                                                       2024-10-07
                    35-44
                             Male
                                     Caucasian
                                                                                          Neutral
                                                                                                    Agree
                                                                                                                 Agree
          Zhang
                                                Designer
                                                                                                                               Disagree
         Michael
                                                     UX
                                                              Product
                                                                                                  Strongly
                    18-24
                           Female
                                                                       2024-10-07
                                                                                           Agree
                                                                                                               Disagree
                                                                                                                                Neutral
                                     Caucasian
         Johnson
                                                Designer
                                                          Development
                                                                                                    Agree
 Next steps:
              Generate code with df
                                      View recommended plots
                                                                    New interactive sheet
review={'Strongly Disagree':1,
      'Disagree': 2,
    'Neutral': 3,
    'Agree': 4,
    'Strongly Agree': 5 }
data=df.copv()
'Workplace Inclusivity', 'Company Communication', 'Compensation Satisfaction',
    'Job Security', 'Overall Engagement'
data[colums]=data[colums].replace(review)
data.head()
    <ipython-input-51-15ccba962fba>:7: FutureWarning: Downcasting behavior in `replace` is deprecated and will be removed in
       data[colums] = data[colums].replace(review)
                                                                            Date
                                                                                                    Work-
                                                     Job
                                                                                            Job
                                                                                                           Management
                                                                                                                                  Team W
                     Age
                           Gender Ethnicity
                                                                          Survey
                                                                                                     Life
                                                          Department
                 Bracket
                                                  Title
                                                                                  Satisfaction
                                                                                                              Support Collaboration F
                                                                                                 Balance
                                                                       Completed
                                                              Product
           John
                                                 Product
      0
                    25-34
                           Female
                                                                       2024-10-05
                                                                                              2
                                                                                                        5
                                                                                                                     3
                                                                                                                                     3
                                        Asian
                                                 Manager
                                                          Development
            Doe
           Jane
                                        Middle
                                               Operations
                    18-24
                           Female
                                                                Sales
                                                                       2024-10-07
                                                                                                                                     3
          Smith
                                       Eastern
                                                 Manager
          Carlos
                                                     UX
      2
                    45-54
                           Female
                                        Indian
                                                            Consulting
                                                                       2024-10-08
                                                                                              3
                                                                                                                     4
                                                                                                                                     2
                                                Designer
          Reyes
           Emily
                                                     UX
      3
                    35-44
                             Male
                                     Caucasian
                                                                  HR
                                                                       2024-10-07
                                                                                              3
                                                                                                                                     1
          Zhang
                                                Designer
         Michael
                                                     HX
                                                              Product
                                                                       2024-10-07
                                                                                                        5
                                                                                                                     2
                                                                                                                                     3
                    18-24
                           Female
                                     Caucasian
         Johnson
                                                Designer
                                                          Development
             Generate code with data
                                        View recommended plots
                                                                      New interactive sheet
 Next steps:
print(data[colums].describe())
            Job Satisfaction
                                Work-Life Balance
                                                     Management Support
\overline{2}
                    15.000000
     count
                                         15.000000
                                                               15.000000
     mean
                     3.000000
                                          3.333333
                                                                2.800000
     std
                     1.309307
                                          1,676163
                                                                1.521278
                     1.000000
                                          1.000000
                                                                1.000000
     min
     25%
                     2.000000
                                          1.500000
                                                                1.000000
     50%
                     3.000000
                                          4.000000
                                                                3.000000
     75%
                     4.000000
                                          5.000000
                                                                4.000000
     max
                     5.000000
                                          5.000000
                                                                5.000000
```

Workload Fairness

15.000000

3.266667

Team Collaboration

15.000000

2.866667

count

mean

```
1.500000
                                          2.500000
                      3.000000
                                          3.000000
                      4.000000
                                          5.000000
                      5.000000
                                          5.000000
            Career Development Opportunities
                                               Workplace Inclusivity
                                    15.000000
                                                            15.000000
                                     3.066667
                                                             3.466667
                                     1.437591
                                                             1.060099
                                     1.000000
                                                             2.000000
                                     2.000000
                                                             3.000000
                                     4.000000
                                                             3.000000
                                     4.000000
                                                             4.000000
                                                             5.000000
                                     5.000000
            Company Communication
                                    Compensation Satisfaction
                                                                Job Security
                        15.000000
                                                     15.000000
                                                                   15.000000
                         2.933333
                                                      2.733333
                                                                     3.400000
                         1.533747
                                                      1.099784
                                                                     1.242118
                         1.000000
                                                      1.000000
                                                                     1.000000
                         1.500000
                                                      2.000000
                                                                     3.000000
                                                      3.000000
                                                                     4.000000
                         3.000000
                                                      3.000000
                                                                     4.000000
                         4.000000
                                                      5.000000
                         5.000000
                                                                     5.000000
            Overall Engagement
                     15.000000
                      3.400000
                      1.298351
                      1.000000
                       2.500000
                      3.000000
                       4.500000
                      5.000000
#Related to Job
column1=['Job Satisfaction',
     'Overall Engagement'
gender=data.groupby('Gender')[column1].describe()
print(gender)
            Job Satisfaction
                       count
                                               std
                                                    min
                                                          25%
                                                               50%
                                                                    75%
     Gender
     Female
                                        1.301708
                                                   1.0
                                                         2.00
                                                               3.0
                              3.333333
                                         1.366260
                                                    2.0
                                                         2.25
                                                               3.0
                                                                     4.5
                                                                          5.0
            Overall Engagement
                                                 std
                                                      min
                                                           25%
                                                                50%
                                                                       75%
                                                                            max
                         count
                                     mean
    Gender
    Female
                            9.0
                                3.666667
                                          1.414214
                                                      2.0
                                                           2.0
                                                                4.0
                                                                     5.00
                                                                            5.0
                                3.000000 1.095445
                                                     1.0
                                                           3.0
#Related to work
column2=[ 'Work-Life Balance',
     'Workload Fairness',
    'Workplace Inclusivity',
gender=data.groupby('Gender')[column2].describe()
print(gender)
            Work-Life Balance
                                                           25%
                                                                50%
                                                                       75%
                        count
                                    mean
                                                std
                                                    min
                                                                            max
     Gender
     Female
                          9.0
                               3.111111
                                          1.833333
                                                    1.0
                                                          1.00
                                                                4.0
                                                                     5.00
                                                                            5.0
    Male
                               3.666667
                                          1.505545
                                                    1.0
                                                          3.25
                                                                4.0
                                                                     4.75
            Workload Fairness
                                                         Workplace Inclusivity
                                                75%
                        count
                                    mean
                                                     max
                                                                          count
                                          . . .
    Gender
                                           . . .
                          9.0
                                3.111111
                                                3.0
                                                                            9.0
     Female
                                                     5.0
                                                     5.0
    Male
                                3.500000
                          6.0
                                                5.0
                                                                            6.0
                 mean
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                                 min
                                      25%
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                                                 75%
                                                       max
     Gender
             3.333333 1.00000
     Female
                                2.0
                                      3.0
                                           3.0
                                                4.00
                                                       5.0
             3.666667
                       1.21106
                                2.0
                                      3.0
                                           3.5
     [2 rows x 24 columns]
#Related to Job
column1=['Job Satisfaction',
```

1.407463

1.000000

1.533747

1.000000

```
'Overall Engagement'
Age=data.groupby('Age Bracket')[column1].describe()
print(Age)
\overline{2}
                 Job Satisfaction
                                                                           75%
                                                     std
                                                          min
                                                                25%
                                                                     50%
                             count
                                         mean
     Age Bracket
     18-24
                                    3.428571 1.397276
                                                          1.0
                                                               3.0
                                                                     4.0
                                                                           4.0
                                                                                5.0
                                7.0
                                    3.000000
                                               1.732051
     25 - 34
                               3.0
                                                          2.0
                                                               2.0
                                                                     2.0
                                                                          3.5
                                                                                5.0
     35 - 44
                                2.0
                                     2.000000
                                               1.414214
                                                          1.0
                                                               1.5
                                                                     2.0
                                                                          2.5
                                                                                3.0
    45-54
                                    2.666667 0.577350
                                                                          3.0
                                3.0
                                                          2.0
                                                               2.5
                                                                     3.0
                                                                                3.0
                 Overall Engagement
                                count
                                           mean
                                                       std
                                                            min
                                                                   25%
                                                                        50%
                                                                               75%
    Age Bracket
     18-24
                                  7.0
                                       3.428571
                                                 1.511858
                                                            1.0
                                                                  2.50
                                                                        4.0
                                                                              4.50
                                                                                    5.0
     25-34
                                                                  3.00
                                                                        4.0
                                  3.0
                                       3.666667
                                                 1.527525
                                                            2.0
                                                                              4.50
                                                                                    5.0
                                       2.500000
                                                 0.707107
                                                            2.0
                                                                  2.25
                                                                        2.5
                                                                              2.75
                                                                                    3.0
     35-44
                                  2.0
     45-54
                                       3.666667
                                                            3.0
                                                                  3.00
                                                                        3.0
                                                                              4.00
                                                                                    5.0
                                  3.0
                                                 1.154701
#Related to work
column2=[ 'Work-Life Balance',
     'Workload Fairness',
    'Workplace Inclusivity'
Age=data.groupby('Age Bracket')[column2].describe()
print(Age)
∓₹
                 Work-Life Balance
                                                                  25%
                                                                       50%
                                                                              75%
                              count
                                          mean
                                                      std
                                                          min
                                                                                   max
     Age Bracket
                                      3.142857
                                                 1.772811
     18-24
                                 7.0
                                                           1.0
                                                                 1.50
                                                                       4.0
                                                                             4.50
                                                                                   5.0
     25-34
                                                                             5.00
                                      4.666667
                                                 0.577350
                                                                 4.50
                                                                       5.0
                                                                                   5.0
                                3.0
                                                           4.0
     35 - 44
                                2.0
                                     4.500000
                                                0.707107
                                                           4.0
                                                                 4.25
                                                                       4.5
                                                                             4.75
                                                                                   5.0
     45-54
                                3.0
                                      1.666667
                                                1.154701
                                                           1.0
                                                                 1.00
                                                                       1.0
                                                                             2.00
                                                                                   3.0
                 Workload Fairness
                                                                Workplace Inclusivity
                                                      75%
                              count
                                          mean
                                                           max
                                                                                 count
                                                 . . .
    Age Bracket
                                                 . . .
     18-24
                                 7.0
                                                      3.0
                                                                                   7.0
                                      2.571429
                                                           5.0
                                                 . . .
     25-34
                                3.0
                                      3.666667
                                                      4.0
                                                           5.0
                                                                                   3.0
                                                 . . .
     35-44
                                      3.000000
                                                      4.0
                                                           5.0
                                 2.0
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                                      4.666667
                                                      5.0
     45-54
                                                           5.0
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                                3.0
                                                 . . .
                       mean
                                   std
                                        min 25%
                                                  50%
                                                        75%
                                                             max
     Age Bracket
     18-24
                  3.000000 1.000000
                                        2.0
                                             2.5
                                                  3.0
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                                                              5.0
     25-34
                  4.000000 1.000000 3.0 3.5
                                                 4.0
                                                       4.5 5.0
     35 - 44
                  4.000000
                             0.000000
                                        4.0
                                             4.0
                                                   4.0
                                                        4.0
                                                              4.0
                  3.666667
                             1.527525
                                        2.0
                                             3.0
                                                   4.0
     [4 rows x 24 columns]
#Related to Job
column1=['Job Satisfaction',
     'Overall Engagement'
Dept=data.groupby('Department')[column1].describe()
print(Dept)
\overline{\mathbf{T}}
                          Job Satisfaction
                                      count
                                                  mean
                                                              std
                                                                   min
                                                                         25%
                                                                               50%
                                                                                    75%
     Department
     Consulting
                                        2.0
                                             3.000000
                                                        0.000000
                                                                   3.0
                                                                        3.00
                                                                               3.0
                                                                                    3.0
     Design
                                        1.0
                                             5.000000
                                                              NaN
                                                                   5.0
                                                                        5.00
                                                                               5.0
                                                                                    5.0
                                             4.000000
                                                                   4.0
                                                                        4.00
                                                                               4.0
                                                                                    4.0
     Finance
                                        1.0
                                                              NaN
    HR
                                        2.0
                                             4.000000
                                                        1.414214
                                                                   3.0
                                                                        3.50
                                                                               4.0
                                                                                    4.5
    IT
                                             1.000000
                                                             NaN
                                                                   1.0
                                                                        1.00
                                                                                    1.0
                                        1.0
                                                                               1.0
                                             2.000000
                                                              NaN
                                                                        2.00
     Operations
                                        1.0
                                                                   2.0
                                                                               2.0
                                                                                    2.0
     Product Development
                                        3.0
                                             2.666667
                                                        1.154701
                                                                   2.0
                                                                        2.00
                                                                               2.0
                                                                                    3.0
                                             2.750000
                                                        1.500000
                                                                                    4.0
     Sales
                                        4.0
                                                                   1.0
                                                                        1.75
                                                                               3.0
                               Overall Engagement
                                                                     std
                                                                          min
                                                                                 25%
                           max
                                             count
                                                         mean
    Department
     Consulting
                                                     4.000000
                                                               1.414214
                           3.0
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     Design
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     Finance
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                                                1.0
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                                                                     NaN
                                                                          5.0
                                                                                5.00
    HR
                           5.0
                                                2.0
                                                     3.500000
                                                                0.707107
                                                                          3.0
                                                                                3.25
                                                     2.000000
                                                                     NaN
                                                                                2.00
     IT
                           1.0
                                                1.0
                                                                          2.0
                                                     3.000000
                                                                     NaN
     Operations
                           2.0
                                                1.0
                                                                          3.0
                                                                                3.00
     Product Development
                           4.0
                                               3.0
                                                     3.666667
                                                               1.527525
                                                                          2.0
                                                                                3.00
     Sales
                           4.0
                                               4.0
                                                     3.500000
                                                               1.290994
                                                                          2.0
                                                                                2.75
```

50%

75% max

```
Department
                                4.50
    Consulting
                           4.0
                                       5.0
     Design
                           1.0
                                1.00
                                       1.0
    Finance
                           5.0
                                5.00
                                       5.0
     HR
                           3.5
                                3.75
                                       4.0
     IT
                           2.0
                                2.00
                                       2.0
     Operations
                           3.0
                                3.00
                                       3.0
     Product Development
                           4.0
                                4.50
                                       5.0
     Sales
                           3.5
#Related to work
column2=[ 'Work-Life Balance',
     'Workload Fairness',
    'Workplace Inclusivity'
Dept=data.groupby('Department')[column2].describe()
print(Dept)
₹
                          Work-Life Balance
                                                               std
                                                                    min
                                                                          25%
                                                                                50%
                                       count
                                                   mean
     Department
     Consulting
                                              2.000000
                                                         1.414214
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                                                                                2.0
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                                              5.000000
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     Desian
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                                                                                4.0
     Finance
                                         1.0
    HR
                                               4.500000
                                         2.0
                                                         0.707107
                                                                    4.0
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                                              5.000000
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     IT
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                                              1.000000
     Operations
                                         1.0
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                                                                    1.0
                                                                         1.00
                                                                                1.0
     Product Development
                                         3.0
                                               4.666667
                                                         0.577350
                                                                    4.0
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                                                                                5.0
     Sales
                                         4.0
                                              2.000000
                                                         1.414214
                                                                    1.0
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                                                                                1.5
                                      Workload Fairness
                                                                          75%
                                                   count
                                                              mean
                                                                               max
                                 max
                                                                     . . .
    Department
                                                                     . . .
     Consulting
                           2.50
                                 3.0
                                                     2.0
                                                          5.000000
                                                                          5.0
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                           5.00
                                                          5.000000
                                                                                5.0
     Design
                                 5.0
                                                     1.0
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                                                          2.000000
    Finance
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                                                     1.0
    HR
                           4.75
                                 5.0
                                                     2.0
                                                          3.000000
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                                                                                5.0
     TT
                           5.00
                                 5.0
                                                     1.0
                                                          5.000000
                                                                          5.0
                                                                                5.0
     Operations
                           1.00
                                 1.0
                                                     1.0
                                                          4.000000
                                                                          4.0
                                                                                4.0
     Product Development
                           5.00
                                 5.0
                                                     3.0
                                                          1.666667
                                                                     . . .
                                                                          2.0
                                                                                3.0
                                 4.0
                                                          3.000000
                                                                          3.0
                                                                               3.0
                           2.50
                                                                     . . .
                          Workplace Inclusivity
                                                             std min
                                                                         25%
                                                                               50%
                                           count mean
    Department
                                             2.0
                                                   4.5
                                                        0.707107
                                                                   4.0
                                                                        4.25
     Consulting
                                                                               4.5
    Design
                                             1.0
                                                   3.0
                                                             NaN
                                                                   3.0
                                                                        3.00
                                                                               3.0
     Finance
                                             1.0
                                                   2.0
                                                             NaN
                                                                   2.0
                                                                        2.00
                                                                               2.0
    HR
                                                                        4.25
                                             2.0
                                                   4.5
                                                        0.707107
                                                                   4.0
                                                                               4.5
     IT
                                             1.0
                                                   4.0
                                                             NaN
                                                                   4.0
                                                                        4.00
                                                                               4.0
     Operations
                                             1.0
                                                   2.0
                                                             NaN
                                                                   2.0
                                                                        2.00
                                                                               2.0
     Product Development
                                             3.0
                                                   3.0
                                                        1.000000
                                                                   2.0
                                                                        2.50
     Sales
                                             4.0
                                                   3.5
                                                        1.000000
                                                                   3.0
                                                                        3.00
                            75% max
     Department
                           4.75
     Consulting
                                 5.0
     Design
                           3.00
                                 3.0
    Finance
                           2.00
                                 2.0
    HR
                           4.75
                                 5.0
     ΙT
                           4.00
                                 4.0
     Operations
                           2.00
                                 2.0
     Product Development
                           3.50
                                 4.0
     Sales
                           3.50
     [8 rows x 24 columns]
#Related to Job
column1=['Job Satisfaction',
     'Overall Engagement'
1
Eth=data.groupby('Ethnicity')[column1].describe()
print(Eth)
₹
                       Job Satisfaction
                                   count
                                               mean
                                                          std min
                                                                      25%
                                                                           50%
                                                                                  75%
     Ethnicity
     African American
                                     2.0
                                          3.500000
                                                     2.121320
                                                               2.0
                                                                     2.75
                                                                           3.5
                                                                                 4.25
     Asian
                                          2.500000
                                                     0.707107
                                                                2.0
                                                                     2.25
                                                                                 2.75
                                     2.0
                                                                           2.5
     Caucasian
                                     3.0
                                          4.000000
                                                               3.0
                                                                     3.50
                                                                           4.0
                                                                                 4.50
    Hispanic
                                     1.0
                                          4.000000
                                                          NaN
                                                               4.0
                                                                     4.00
                                                                           4.0
                                                                                 4.00
     Indian
                                     3.0
                                          1.666667
                                                     1.154701
                                                                1.0
                                                                     1.00
                                                                           1.0
                                                                                 2.00
    Middle Eastern
                                     4.0
                                          3.000000
                                                    1.154701
                                                                2.0
                                                                     2.00
                                                                           3.0
                                                                                 4.00
                            Overall Engagement
```

```
std min
                                                                        25%
                                       count
                      max
                                                  mean
    Ethnicity
                                         2.0 2.500000 2.121320 1.0
    African American
                      5.0
                                                                       1.75
                                                                             2.5
                                                        1.414214
    Asian
                      3.0
                                         2.0 4.000000
                                                                  3.0
                                                                       3.50
                                                                             4.0
    Caucasian
                      5.0
                                         3.0 3.000000
                                                        1.000000
                                                                  2.0
                                                                       2.50
                                                                             3.0
    Hispanic
                      4.0
                                         1.0 5.000000
                                                             NaN 5.0
                                                                       5.00
                                                                             5.0
    Indian
                                             3.666667
                                                        1.527525
                                                                 2.0
                                                                       3.00
                      3.0
                                         3.0
                                                                             4.0
    Middle Eastern
                                         4.0 3.250000 1.258306 2.0
                       75%
                           max
    Ethnicity
                      3.25
    African American
                            4.0
    Asian
                      4.50
                            5.0
    Caucasian
                      3.50
                            4.0
    Hispanic
                      5.00
                            5.0
    Indian
                      4.50 5.0
    Middle Eastern
                      3.50
                            5.0
#2 Infrentitial Statistics
from scipy import stats
job1 = data[data['Department'] == 'IT']['Job Satisfaction']
job2 = data[data['Department'] == 'HR']['Job Satisfaction']
t_stat, p_value = stats.ttest_ind(job1, job2, nan_policy='omit')
print(f"T-statistic: {t_stat}, P-value: {p_value}")
correlation_coefficient, p_value_corr = stats.pearsonr(data['Work-Life Balance'], data['Overall Engagement'])
print(f"Correlation Coefficient: {correlation_coefficient}, P-value: {p_value_corr}")
   T-statistic: -1.7320508075688774, P-value: 0.33333333333333333
    Correlation Coefficient: -0.361040820409166, P-value: 0.18612659993280437
from scipy import stats
job1 = data[data['Department'] == 'HR']['Job Satisfaction']
job2 = data[data['Department'] == 'Sales']['Job Satisfaction']
t_stat, p_value = stats.ttest_ind(job1, job2, nan_policy='omit')
print(f"T-statistic: {t_stat}, P-value: {p_value}")
correlation_coefficient, p_value_corr = stats.pearsonr(data['Work-Life Balance'], data['Overall Engagement'])
print(f"Correlation Coefficient: {correlation_coefficient}, P-value: {p_value_corr}")
   T-statistic: 0.9759000729485332, P-value: 0.3843727364479507
    Correlation Coefficient: -0.361040820409166, P-value: 0.18612659993280437
from scipy import stats
job1 = data[data['Department'] == 'Consulting']['Job Satisfaction']
job2 = data[data['Department'] == 'Product Development']['Job Satisfaction']
t_stat, p_value = stats.ttest_ind(job1, job2, nan_policy='omit')
print(f"T-statistic: {t_stat}, P-value: {p_value}")
correlation_coefficient, p_value_corr = stats.pearsonr(data['Work-Life Balance'], data['Overall Engagement'])
print(f"Correlation Coefficient: {correlation_coefficient}, P-value: {p_value_corr}")
   T-statistic: 0.38729833462074187, P-value: 0.7243774861131499
    Correlation Coefficient: -0.361040820409166, P-value: 0.18612659993280437
from scipy import stats
job1 = data[data['Gender'] == 'Male']['Job Satisfaction']
job2 = data[data['Gender'] == 'Female']['Job Satisfaction']
t_stat, p_value = stats.ttest_ind(job1, job2, nan_policy='omit')
print(f"T-statistic: {t_stat}, P-value: {p_value}")
correlation_coefficient, p_value_corr = stats.pearsonr(data['Work-Life Balance'], data['Overall Engagement'])
print(f"Correlation Coefficient: {correlation_coefficient}, P-value: {p_value_corr}")
    T-statistic: 0.7943978607505493, P-value: 0.44122530370600777
    Correlation Coefficient: -0.361040820409166, P-value: 0.18612659993280437
```