Panda Compare DataFrame

```
import pandas as pd # For data manipulation and analysis
         import numpy as np # For numerical computations
         import matplotlib.pyplot as plt # For creating static, animated, and interactive visualizations
         import seaborn as sns # For statistical data visualization based on Matplotlib
         import scipy # For scientific and technical computing (including optimization, integration, and statistics)
In [3]: import pandas as pd
         import numpy as np
         # Creating realistic data for employees
             'Employee ID': np.arange(1001, 1011),
             'Employee Name': ['Satender Kumar', 'data 1', 'Jane Smith', 'Robert Brown', 'Emily Davis', 'Michael Wilson', 'Sar
             'Department': ['Data Analyst', 'IT', 'Finance', 'Marketing', 'Sales', 'Operations', 'R&D', 'Support', 'Admin', '
             'Age': [24, np.random.randint(25, 60), np.random.randint(25, 60), np.random.randint(25, 60), np.random.randint(25
             'Location': ['London, Canada', 'Toronto', 'London', 'Sydney', 'San Francisco', 'Paris', 'Berlin', 'Tokyo', 'Duba
             'Salary': np.random.randint(50000, 150000, size=10),
             'Years with Company': np.random.randint(1, 15, size=10),
             'Position': ['Data Analyst', 'Developer', 'Analyst', 'Designer', 'Consultant', 'Engineer', 'Scientist', 'Support
             'Performance Score': np.random.randint(1, 5, size=10),
             'Bonus': np.random.randint(1000, 10000, size=10),
             'Gender': ['Male', 'Male', 'Female', 'Male', 'Female', 'Male', 'Female', 'Male', 'Female', 'Male'],
             'Marital Status': ['Single', 'Single', 'Married', 'Single', 'Single', 'Married', 'Married', 'Single', 'Married',
             'Education': ['Bachelor', 'Master', 'PhD', 'Bachelor', 'Master', 'PhD', 'Bachelor', 'Master', 'Bachelor', 'Master
             'Hire Date': pd.to_datetime(['2019-06-12', '2015-07-23', '2012-09-05', '2018-11-30', '2013-05-19', '2019-02-14',
             'Overtime Hours': np.random.randint(0, 20, size=10),
             'Sick Days Taken': np.random.randint(0, 10, size=10),
             'Vacation Days Taken': np.random.randint(5, 20, size=10),
             'Training Hours': np.random.randint(10, 50, size=10),
             'Certifications': ['Yes', 'No', 'Yes', 'No', 'Yes', 'No', 'Yes', 'Yes', 'No', 'Yes'],
             'Supervisor': ['Anna Smith', 'Brian Adams', 'Clara Jones', 'Daniel Martin', 'Eva Rodriguez', 'Frank Bell', 'Grace
         # Creating the DataFrame
         df = pd.DataFrame(data)
In [5]: df
Out[5]:
                                                                         Years
            Employee Employee
                                                                                          Performance
                                                                                                                       Marital
                                 Department Age
                                                              Salary
                                                                         with
                                                                                 Position
                                                                                                        Bonus Gender
                                                    Location
                  ID
                          Name
                                                                                                                        Status
                                                                                                 Score
                                                                     Company
                        Satender
                                                     London,
                                                                                     Data
         0
                1001
                                 Data Analyst
                                                             113479
                                                                                                         9480
                                                                                                                         Single
                                                                                                                 Male
                          Kumar
                                                     Canada
                                                                                  Analyst
                1002
         1
                          data 1
                                          ΙT
                                               34
                                                     Toronto 127453
                                                                               Developer
                                                                                                         6577
                                                                                                                 Male
                                                                                                                         Single
                           Jane
         2
                1003
                                               27
                                                     London 118316
                                                                            7
                                                                                                                       Married
                                     Finance
                                                                                  Analyst
                                                                                                         4972
                                                                                                               Female
                          Smith
                         Robert
         3
                1004
                                   Marketing
                                               59
                                                      Sydney
                                                             109725
                                                                           10
                                                                                 Designer
                                                                                                     3
                                                                                                         4624
                                                                                                                 Male
                                                                                                                         Single
                          Brown
                          Emily
                                                        San
         4
                1005
                                       Sales
                                                              99006
                                                                           14 Consultant
                                                                                                         3218
                                                                                                               Female
                                                                                                                         Single
                                               36
                          Davis
                                                    Francisco
                        Michael
         5
                1006
                                                                                 Engineer
                                   Operations
                                               36
                                                       Paris
                                                            123386
                                                                                                         4450
                                                                                                                 Male
                                                                                                                       Married
                         Wilson
                          Sarah
         6
                1007
                                        R&D
                                               54
                                                       Berlin
                                                              77293
                                                                           13
                                                                                 Scientist
                                                                                                         2823
                                                                                                               Female Married
                          Taylor
                                                                                  Support
                                     Support
                1008 David Lee
                                                                                                         1486
                                                                                                                 Male
                                                                                                                         Single
                                                                                   Agent
                          Laura
                                                                                   Admin
                                                             87223
         8
                1009
                                      Admin
                                               50
                                                      Dubai
                                                                             9
                                                                                                               Female Married
                                                                                 Assistant
                        Johnson
                          James
         9
                1010
                                                                             5
                                       Legal
                                               25 Singapore 110051
                                                                                   Lawyer
                                                                                                         8724
                                                                                                                 Male
                                                                                                                         Single
                          White
In [6]: # Creating realistic data for a second set of employees
         data1 = {
             'Employee ID': np.arange(1011, 1021),
             'Employee Name': ['Satender Kumar', 'data 1', 'Chris Evans', 'Natalie Portman', 'Tom Holland', 'Emma Watson', 'Data
             'Department': ['Data Analyst', 'HR', 'IT', 'Marketing', 'Finance', 'Sales', 'R&D', 'Operations', 'Legal', 'Suppor
             'Age': [24, np.random.randint(25, 60), np.random.randint(25, 60), np.random.randint(25, 60), np.random.randint(25
             'Location': ['London, Canada', 'Los Angeles', 'New York', 'Chicago', 'Houston', 'Phoenix', 'Philadelphia', 'San A
             'Salary': np.random.randint(60000, 160000, size=10),
             'Years with Company': np.random.randint(1, 20, size=10),
             'Position': ['Data Analyst', 'HR Manager', 'IT Specialist', 'Marketing Coordinator', 'Financial Analyst', 'Sales
```

'Gender': ['Male', 'Male', 'Female', 'Female', 'Male', 'Female', 'Male', 'Female', 'Male', 'Male'],

'Performance Score': np.random.randint(1, 5, size=10),
'Bonus': np.random.randint(2000, 12000, size=10),

```
'Marital Status': ['Single', 'Married', 'Single', 'Single', 'Married', 'Single', 'Married', 'Single',
'Education': ['Master', 'Bachelor', 'Master', 'PhD', 'Bachelor', 'Master', 'PhD'],
'Hire Date': pd.to_datetime(['2018-07-15', '2014-03-22', '2011-10-12', '2017-04-17', '2015-09-23', '2016-11-01',
'Overtime Hours': np.random.randint(0, 25, size=10),
'Sick Days Taken': np.random.randint(0, 8, size=10),
'Vacation Days Taken': np.random.randint(7, 22, size=10),
'Training Hours': np.random.randint(15, 55, size=10),
'Certifications': ['Yes', 'Yes', 'No', 'Yes', 'No', 'Yes', 'Yes', 'No'],
'Supervisor': ['John Smith', 'Michael Johnson', 'Patricia Williams', 'Linda Brown', 'Barbara Jones', 'Elizabeth (
}

# Creating the second DataFrame
df1 = pd.DataFrame(data1)
```

In [8]: **df1**

Out[8]:

•	Employee ID	Employee Name	Department	Age	Location	Salary	Years with Company	Position	Performance Score	Bonus	Gender	Marital Status
(1011	Satender Kumar	Data Analyst	24	London, Canada	125763	9	Data Analyst	4	9043	Male	Single
	I 1012	data 1	HR	29	Los Angeles	149163	18	HR Manager	4	5174	Male	Married
2	1013	Chris Evans	IT	58	New York	149334	15	IT Specialist	4	4389	Female	Single
3	3 1014	Natalie Portman	Marketing	41	Chicago	152579	13	Marketing Coordinator	4	3100	Female	Single
4	1015	Tom Holland	Finance	55	Houston	87396	11	Financial Analyst	1	5710	Male	Married
	1016	Emma Watson	Sales	34	Phoenix	132586	8	Sales Manager	1	2777	Female	Single
(5 1017	Daniel Radcliffe	R&D	56	Philadelphia	143832	10	Research Scientist	2	6264	Male	Single
7	7 1018	Scarlett Johansson	Operations	35	San Antonio	61204	1	Operations Manager	4	9008	Female	Married
8	3 1019	Robert Downey Jr.	Legal	26	San Diego	69724	17	Legal Advisor	4	7002	Male	Single
9	1020	Mark Ruffalo	Support	33	Dallas	134630	11	Support Specialist	1	2651	Male	Married
•												•

In [11]: df.head()

Out[11]: Years **Employee Employee** Marital Performance **Department Age Location Salary** with **Position Bonus Gender** Edı **Status** ID Name Score **Company** Satender London, Data 113479 0 1001 Data Analyst 24 3 9480 Single В Male Kumar Canada Analyst 9 Developer 1 1002 ΙT 6577 Male data 1 34 Toronto 127453 Single Jane 2 1003 London 118316 7 Finance 27 Analyst 4972 Female Married Smith Robert 3 1004 Marketing Sydney 109725 Designer 4624 Male Single Brown Emily San Francisco 1005 99006 3 3218 Female Sales 14 Consultant Davis

In [13]: df1.head()

```
Out[13]:
                                                                           Years
             Employee Employee
                                                                                              Performance
                                                                                                                            Marital
                                                                            with
                                                                                     Position
                                                                                                                                    Εc
                                   Department Age Location Salary
                                                                                                            Bonus Gender
                    ID
                            Name
                                                                                                     Score
                                                                                                                             Status
                                                                       Company
                         Satender
                                                                                        Data
                                                      London,
                                   Data Analyst
          0
                  1011
                                                 24
                                                               125763
                                                                               9
                                                                                                             9043
                                                                                                                      Male
                                                                                                                             Single
                                                       Canada
                           Kumar
                                                                                      Analyst
                                                                                          HR
                                                          Los
          1
                  1012
                            data 1
                                           HR
                                                               149163
                                                                              18
                                                                                                             5174
                                                                                                                      Male
                                                                                                                           Married
                                                      Angeles
                                                                                     Manager
                             Chris
                                                         New
          2
                  1013
                                            ΙT
                                                               149334
                                                                                 IT Specialist
                                                                                                             4389
                                                                                                                    Female
                                                                                                                             Single
                            Evans
                                                          York
                                                                                    Marketing
                           Natalie
          3
                  1014
                                     Marketing
                                                      Chicago 152579
                                                                                                             3100
                                                                                                                    Female
                                                                                                                             Single
                          Portman
                                                                                  Coordinator
                                                                                     Financial
                             Tom
                  1015
                                       Finance
                                                                              11
                                                                                                             5710
                                                     Houston
                                                                87396
                                                                                                         1
                                                                                                                      Male Married
                          Holland
                                                                                      Analyst
In [15]: # Check if df and df1 are exactly the same
          are_identical = df.equals(df1)
          print(f"Are df and df1 identical? {are_identical}")
        Are df and df1 identical? False
In [17]: # Find differences between df and df1
          comparison_df = df.compare(df1, keep_shape=True, keep_equal=True)
          print("Differences between df and df1:")
          print(comparison_df)
        Differences between df and df1:
           Employee ID
                                Employee Name
                                                                       Department \
                                                              other
                  self other
                                         self
                                                                              self
                  1001 1011
                               Satender Kumar
                                                    Satender Kumar
                                                                     Data Analyst
        1
                  1002 1012
                                       data 1
                                                             data 1
                                                                               IT
        2
                  1003
                        1013
                                   Jane Smith
                                                       Chris Evans
                                                                          Finance
        3
                  1004
                        1014
                                 Robert Brown
                                                   Natalie Portman
                                                                        Marketing
        4
                  1005
                        1015
                                  Emily Davis
                                                       Tom Holland
                                                                             Sales
        5
                                                                       Operations
                  1006
                        1016 Michael Wilson
                                                       Emma Watson
        6
                  1007
                        1017
                                 Sarah Taylor
                                                  Daniel Radcliffe
                                                                               R&D
        7
                  1008
                        1018
                                    David Lee
                                                Scarlett Johansson
                                                                          Support
                                                 Robert Downey Jr.
                  1009
                        1019
                                Laura Johnson
                                                                             Admin
                                  James White
                  1010
                        1020
                                                      Mark Ruffalo
                                                                             Legal
                           Age
                                            Location
                   other self other
                                                 self
                                                                 other
        0
           Data Analyst
                            24
                                  24
                                      London, Canada
                                                      London, Canada
        1
                      HR
                            34
                                  29
                                             Toronto
                                                          Los Angeles
        2
                      IT
                            27
                                  58
                                               London
                                                              New York
        3
               Marketing
                                  41
                                                               Chicago
                                               Sydney
        4
                 Finance
                            36
                                  55
                                       San Francisco
                                                               Houston
        5
                                                               Phoenix
                   Sales
                            36
                                  34
                                                Paris
                     R&D
        6
                            54
                                  56
                                               Berlin
                                                          Philadelphia
        7
              Operations
                            32
                                  35
                                                Tokyo
                                                          San Antonio
        8
                   Legal
                            50
                                  26
                                                Dubai
                                                             San Diego
                                                                       . . .
        9
                            25
                                  33
                 Support
                                                                Dallas
                                           Singapore
                                                                       . . .
          Sick Days Taken
                                  Vacation Days Taken
                                                              Training Hours
                                                                        self other
                      self other
                                                  self other
        0
                         9
                                7
                                                    12
                                                          15
                                                                          19
                                                                                 53
                                5
        1
                         2
                                                    15
                                                          19
                                                                          31
                                                                                 17
        2
                         2
                                6
                                                    10
                                                          13
                                                                          30
                                                                                 45
                                                                          29
        3
                         8
                                4
                                                    14
                                                          20
                                                                                 34
        4
                         9
                                                                          14
                                1
                                                    18
                                                          18
                                                                                 17
        5
                          3
                                7
                                                     7
                                                          14
                                                                          14
                                                                                 48
                                                     6
                                                           8
                                                                          11
                                                    15
                                0
                                                          16
                                                                          21
                                                                                 54
                                                           7
        8
                         8
                                                    15
                                                                                 18
        9
                          6
                                6
                                                     6
                                                           21
                                                                          45
                                                                                 31
           Certifications
                                     Supervisor
                     self other
                                           self
                                                               other
                      Yes
                             Yes
                                     Anna Smith
                                                         John Smith
                                    Brian Adams
                                                    Michael Johnson
                       No
                             Yes
        2
                      Yes
                                    Clara Jones
                                                  Patricia Williams
                             No
        3
                                  Daniel Martin
                       No
                             Yes
                                                        Linda Brown
        4
                      Yes
                             No
                                  Eva Rodriguez
                                                      Barbara Jones
        5
                       No
                             Yes
                                     Frank Bell
                                                   Elizabeth Garcia
        6
                      Yes
                             No
                                    Grace Moore
                                                     Susan Martinez
        7
                                   Hannah Lewis Jessica Hernandez
                      Yes
                            Yes
        8
                       No
                             Yes
                                     Ivan Scott
                                                        Sarah Lopez
                      Yes
                                    Jake Miller
                                                       Karen Wilson
        [10 rows x 40 columns]
```

In [20]: # Identify rows that differ between df and df1
 differing_rows = df[df.ne(df1).any(axis=1)]
 print("Rows that differ between df and df1:")
 print(differing_rows)

```
Rows that differ between df and df1:
                                                           Location Salary \
          Employee ID
                      Employee Name
                                      Department Age
                1001 Satender Kumar Data Analyst
                                                  24 London, Canada 113479
       0
       1
                1002
                             data 1
                                             ΙT
                                                           Toronto 127453
       2
                1003
                         Jane Smith
                                       Finance
                                                  27
                                                             London 118316
       3
                       Robert Brown
                                                             Sydney 109725
                1004
                                     Marketing
                                                  59
                                        Sales
       4
                1005
                        Emily Davis
                                                  36
                                                       San Francisco
                                                                     99006
                1006 Michael Wilson
                                     Operations
       5
                                                  36
                                                             Paris 123386
                1007
                       Sarah Taylor
                                            R&D
       6
                                                  54
                                                             Berlin
                                                                     77293
                                         Support 32
       7
                1008
                          David Lee
                                                              Tokyo
                                                                     65542
                1009 Laura Johnson
                                                                    87223
       8
                                           Admin 50
                                                              Dubai
       9
                1010
                        James White
                                           Legal 25
                                                          Singapore 110051
                                   Position Performance Score Bonus Gender \
          Years with Company
                         3
                               Data Analyst
                                                          4 9480
                                                                      Male
       0
                                                              6577
       1
                         9
                                  Developer
                                                          4
                                                                      Male
                         7
                                                          1 4972 Female
       2
                                   Analyst
       3
                        10
                                  Designer
                                                          3 4624
                                                                      Male
       4
                        14
                                 Consultant
                                                          3 3218 Female
                         8
                                  Engineer
                                                         1 4450
                                                                      Male
                                                          2 2823 Female
       6
                        13
                                  Scientist
       7
                         9
                                                          2 1486
                              Support Agent
                                                                     Male
                                                          2 1705 Female
       8
                         9 Admin Assistant
       9
                         5
                                    Lawyer
                                                          2
                                                              8724
                                                                      Male
         Marital Status Education Hire Date Overtime Hours Sick Days Taken \
                Single Bachelor 2019-06-12 18
       1
                Single
                         Master 2015-07-23
               Married
                            PhD 2012-09-05
       2
                                                      6
                                                                      2
       3
                Single Bachelor 2018-11-30
                                                      17
                                                                      8
       4
                Single Master 2013-05-19
                                                                      9
                                                      16
       5
               Married
                            PhD 2019-02-14
                                                      14
                                                                      3
               Married Bachelor 2020-08-21
                                                                      5
       6
                                                      4
       7
               Single
                         Master 2016-06-03
                                                       3
                                                                      4
       8
               Married Bachelor 2014-01-28
                                                      13
                                                                      8
                Single Master 2017-03-15
       9
                                                       6
          Vacation Days Taken Training Hours Certifications
                                                            Supervisor
                                                            Anna Smith
       0
                         12
                                       19
                                                     Yes
       1
                         15
                                        31
                                                     No
                                                            Brian Adams
                         10
                                        30
                                                           Clara Jones
       2
                                                     Yes
       3
                         14
                                        29
                                                     No Daniel Martin
                                                     Yes Eva Rodriguez
       4
                         18
                                        14
       5
                          7
                                        14
                                                     No
                                                            Frank Bell
       6
                          6
                                        11
                                                     Yes
                                                           Grace Moore
       7
                                                         Hannah Lewis
                         15
                                        21
                                                     Yes
       8
                         15
                                        44
                                                     No
                                                           Ivan Scott
       9
                                        45
                                                     Yes
                                                           Jake Miller
In [22]: import seaborn as sns
        import matplotlib.pyplot as plt
        # Create a heatmap to visualize differences between df and df1
        diff = df.ne(df1).astype(int) # 1 where different, 0 where the same
        plt.figure(figsize=(12, 8))
        sns.heatmap(diff, cmap='coolwarm', cbar=False, annot=True)
```

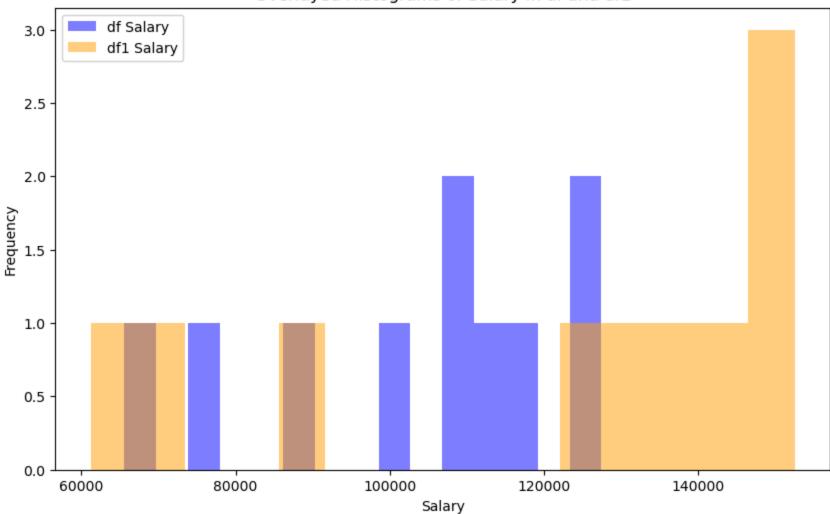
plt.title('Heatmap of Differences Between df and df1')

plt.show()

```
import matplotlib.pyplot as plt

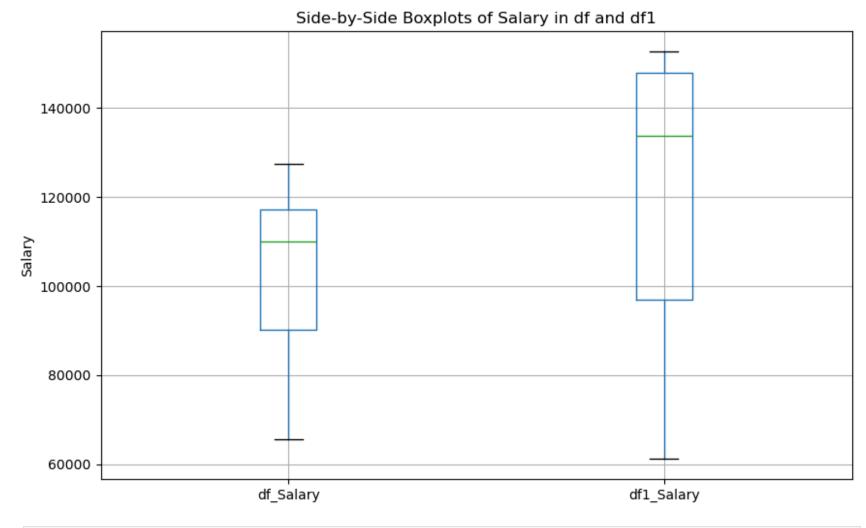
# Overlayed histograms for 'Salary' in df and df1
plt.figure(figsize=(10, 6))
plt.hist(df['Salary'], bins=15, alpha=0.5, label='df Salary', color='blue')
plt.hist(df1['Salary'], bins=15, alpha=0.5, label='df1 Salary', color='orange')
plt.title('Overlayed Histograms of Salary in df and df1')
plt.xlabel('Salary')
plt.ylabel('Frequency')
plt.legend()
plt.show()
```

Overlayed Histograms of Salary in df and df1



```
In [29]: # Combine the data into a single DataFrame for side-by-side boxplots
combined = pd.DataFrame({
        'df_Salary': df['Salary'],
        'df1_Salary': df1['Salary']
})

# Plot the boxplots
plt.figure(figsize=(10, 6))
combined.boxplot()
plt.title('Side-by-Side Boxplots of Salary in df and df1')
plt.ylabel('Salary')
plt.show()
```

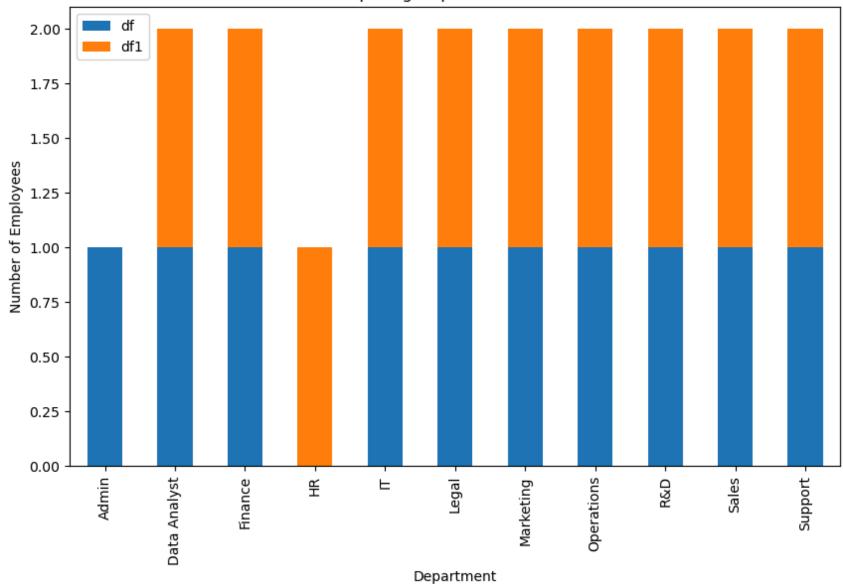


```
In [31]: # Group by Department and count in both DataFrames
    df_dept_counts = df['Department'].value_counts()
    df1_dept_counts = df1['Department'].value_counts()

# Combine into a single DataFrame
    dept_comparison = pd.DataFrame({'df': df_dept_counts, 'df1': df1_dept_counts})

# Plot stacked bar plot
    dept_comparison.plot(kind='bar', stacked=True, figsize=(10, 6))
    plt.title('Stacked Bar Plot Comparing Department Distribution in df and df1')
    plt.ylabel('Number of Employees')
    plt.show()
```

Stacked Bar Plot Comparing Department Distribution in df and df1

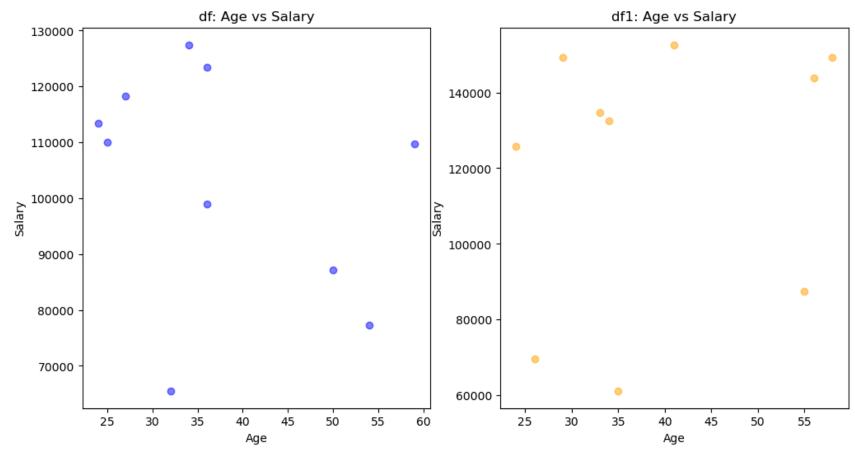


```
In [33]: # Scatter plot comparison for 'Age' vs 'Salary' in both DataFrames
plt.figure(figsize=(12, 6))

plt.subplot(1, 2, 1)
plt.scatter(df['Age'], df['Salary'], color='blue', alpha=0.5)
plt.title('df: Age vs Salary')
plt.xlabel('Age')
plt.ylabel('Salary')

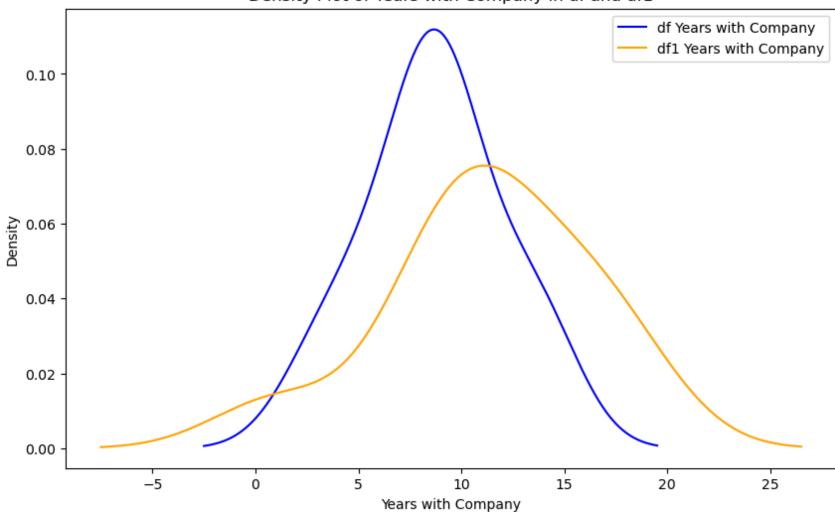
plt.subplot(1, 2, 2)
plt.scatter(df1['Age'], df1['Salary'], color='orange', alpha=0.5)
plt.title('df1: Age vs Salary')
plt.xlabel('Age')
plt.ylabel('Salary')

plt.show()
```



```
In [35]: # Density plot for 'Years with Company' in df and df1
plt.figure(figsize=(10, 6))
df['Years with Company'].plot(kind='density', label='df Years with Company', color='blue')
df1['Years with Company'].plot(kind='density', label='df1 Years with Company', color='orange')
plt.title('Density Plot of Years with Company in df and df1')
plt.xlabel('Years with Company')
plt.legend()
plt.show()
```

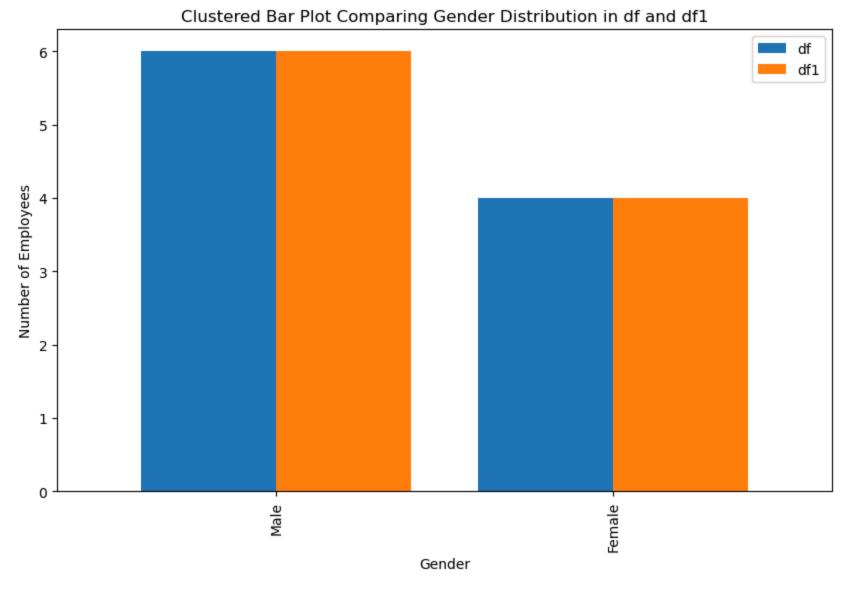
Density Plot of Years with Company in df and df1



```
In [37]: # Group by Gender and count in both DataFrames
    df_gender_counts = df['Gender'].value_counts()
    df1_gender_counts = df1['Gender'].value_counts()

# Combine into a single DataFrame
    gender_comparison = pd.DataFrame({'df': df_gender_counts, 'df1': df1_gender_counts})

# Plot clustered bar plot
    gender_comparison.plot(kind='bar', width=0.8, figsize=(10, 6))
    plt.title('Clustered Bar Plot Comparing Gender Distribution in df and df1')
    plt.ylabel('Number of Employees')
    plt.show()
```

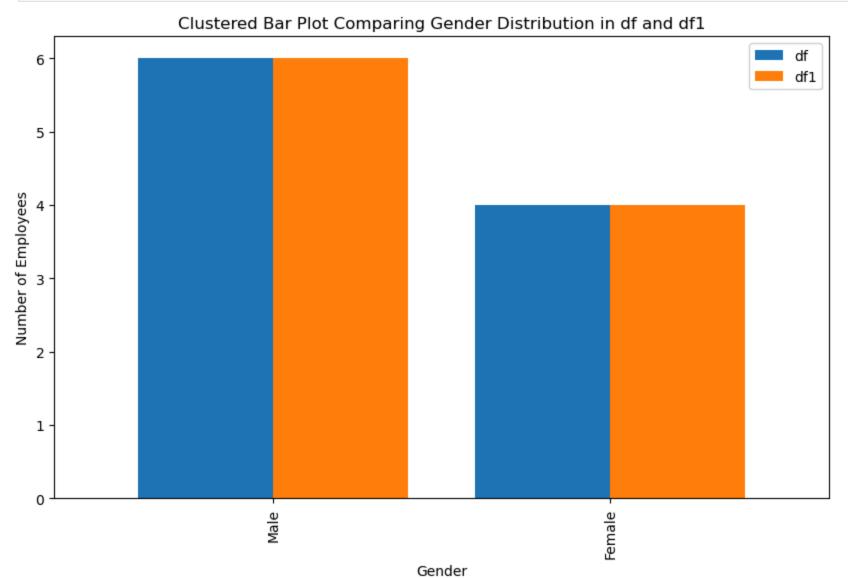


```
In [39]: # Group by Gender and count in both DataFrames
    df_gender_counts = df['Gender'].value_counts()
    df1_gender_counts = df1['Gender'].value_counts()

# Combine into a single DataFrame
    gender_comparison = pd.DataFrame({'df': df_gender_counts, 'df1': df1_gender_counts})

# Plot clustered bar plot
    gender_comparison.plot(kind='bar', width=0.8, figsize=(10, 6))
```

```
plt.title('Clustered Bar Plot Comparing Gender Distribution in df and df1')
plt.ylabel('Number of Employees')
plt.show()
```

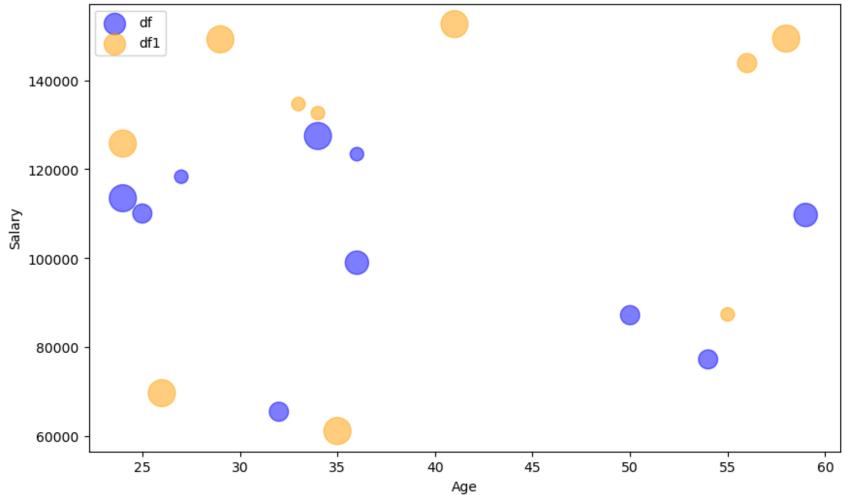


```
In [41]: # Bubble plot for Age vs Salary with Performance Score as bubble size
plt.figure(figsize=(10, 6))

plt.scatter(df['Age'], df['Salary'], s=df['Performance Score']*100, alpha=0.5, label='df', color='blue')
plt.scatter(df1['Age'], df1['Salary'], s=df1['Performance Score']*100, alpha=0.5, label='df1', color='orange')

plt.title('Bubble Plot Comparing Age vs Salary in df and df1')
plt.xlabel('Age')
plt.ylabel('Salary')
plt.legend()
plt.show()
```





```
In [43]: # Comparing first employee in both DataFrames using a radar chart
    categories = ['Age', 'Salary', 'Years with Company', 'Performance Score', 'Bonus']
    df_values = df.loc[0, categories].values.flatten().tolist()
    df1_values = df1.loc[0, categories].values.flatten().tolist()

# Closing the radar chart by adding the first value at the end
    df_values += df_values[:1]
```

```
df1_values += df1_values[:1]
angles = np.linspace(0, 2 * np.pi, len(categories), endpoint=False).tolist()
angles += angles[:1]

fig, ax = plt.subplots(figsize=(6, 6), subplot_kw=dict(polar=True))
ax.fill(angles, df_values, color='blue', alpha=0.25, label='df')
ax.plot(angles, df_values, color='blue', linewidth=2)

ax.fill(angles, df1_values, color='orange', alpha=0.25, label='df1')
ax.plot(angles, df1_values, color='orange', linewidth=2)

ax.set_yticklabels([])
ax.set_yticklabels([])
ax.set_xticks(angles[:-1])
ax.set_xticks(angles[:-1])
ax.set_xticklabels(categories)
plt.title('Radar Chart Comparing First Employee in df and df1')
plt.legend()
plt.show()
```

Radar Chart Comparing First Employee in df and df1

