Python Pandas Activity

Name: shreyash Suresh padase

Roll No : 839

Div – H

Prn- 202201070071

1. Find the statistical Analysis on Employee Info **(Refer Data Set 4)**
    1. Find the total no of male and female employee
    2. Find the total no of single married and divorced employee
    3. Find the employee ID who is manager
    4. Find the all employee ID who is Supervisor
    5. Clean the dataset if record is empty with 0 values or delete incomplete data row
    6. Find the name of employee who is working as manager and from Pune
    7. Find the employee who's salary is greater than 1,00,000/-

Code:

```
import pandas as pd


df = pd.read_csv('dataset4.csv', delimiter=',')


1)gender_counts = df['Gender'].value_counts()
```

```
total_male = gender_counts['male']
total_female = gender_counts['female']
```

2)
```
marital_status_counts = df['Marital Status'].value_counts()
total_single = marital_status_counts['single']
total_married = marital_status_counts['married']
total_divorced = marital_status_counts['divorced']
```

3)
```
manager_ids = df[df['Designation'] == 'Manager']['Employee ID']
```

4)
```
supervisor_ids = df[df['Designation'] == 'Supervisor']['Employee ID']
```

5)
```
df = df.fillna(0)
df = df.dropna()
```

6)manager_from_pune = df[(df['Designation'] == 'Manager') & (df['City'] == 'Pune')]['Name']

7)high_salary_employees = df[df['Salary'] > 100000]['Name']

print("1)Total number of male employees:", total_male)

print("2)Total number of female employees:", total_female)

print("3)Total number of single employees:", total_single)

print("4)Total number of married employees:", total_married)

print("5)Total number of divorced employees:", total_divorced)

print("6)Employee ID of those who are managers:", manager_ids)

```
print("7)Employee ID of those who are supervisors:", supervisor_ids)

print("8)Employee working as a manager and from Pune:", manager_from_pune)

print("9)Employees with a salary greater than 1,00,000/-:", high_salary_employees)
```

Output:

```
1)Total number of male employees: 7

2)Total number of female employees: 3

3)Total number of single employees: 5

4)Total number of married employees: 3

5)Total number of divorced employees: 2

6)Employee ID of those who are managers: 0    1

2    3

5    6

7    8

Name: Employee ID, dtype: int64

7)Employee ID of those who are supervisors: 4     5

9    10
```

Name: Employee ID, dtype: int64

8)Employee working as a manager and from Pune: 0 Sanvi

5 Pranav

Name: Name, dtype: object

9)Employees with a salary greater than 1,00,000/-: 1 Mrunmayee

3 Gouri

6 Saksham

8 Sunil

Name: Name, dtype: object