In [1]:
```
import numpy as np
import pandas as pd
import matplotlib as plt
import seaborn as sns
```

In [3]:
```
df = pd.read_csv( r'C:\Users\User\Desktop\WomenRepresentaionInCityProperty-San Francisco.csv')
```

In [4]:
```
df.shape
```

Out[4]:
```
(82, 11)
```

In [5]:
```
df.head()
```

Out[5]:

	Department/Source	Name	Person	Gender	Reference	Comments	Current Police Districts	Cu Super Dis
0	Administrator	MOSCONE CENTER (South)	George R. Moscone	M	City Administrator	NaN	4	
1	Administrator	Maxine Hall Health Center	NaN	F	Public Health	NaN	4	
2	REC AND PARKS	Moscone Recreation Center	George R. Moscone	M	NaN	park	4	
3	REC AND PARKS	Helen Crocker Russell Library of Horticulture,...	Helen Crocker	F	NaN	facilities and other amenities	4	
4	REC AND PARKS	Sharon Building, Golden Gate Park	Sharon Building	M	NaN	facilities and other amenities	4	

In [6]:
```
df.tail()
```

Out[6]:

	Department/Source	Name	Person	Gender	Reference	Comments	Current Police Districts	C Supe Di
77	Administrator	MOSCONE CENTER Parking Garage	George R. Moscone	M	Municipal Transportation Agency	NaN	4	
78	RED	City Hall, 2nd Floor, Buck Delventhal Rotunda	Buck Delventhal	M	Longtime Deputy City Attorney	NaN	4	
79	PUC	Alex Pitcher Community Room	Alex Pitcher, Jr.	M	NaN	Civil Rights Attorney	4	
80	Administrator	Curtis E. Green LRV Facility Annex Bldg	Curtis E. Green	M	Municipal Transportation Agency	NaN	4	
81	Administrator	Bill Graham Civic Auditorium	Bill Graham	M	City Administrator	NaN	4	

In [7]:
```
df.describe()
```

Out[7]:

	Current Police Districts	Current Supervisor Districts	Analysis Neighborhoods	Neighborhoods	SF Find Neighborhoods
count	82.0	82.0	82.0	82.0	82.0
mean	4.0	10.0	36.0	21.0	21.0
std	0.0	0.0	0.0	0.0	0.0
min	4.0	10.0	36.0	21.0	21.0
25%	4.0	10.0	36.0	21.0	21.0
50%	4.0	10.0	36.0	21.0	21.0
75%	4.0	10.0	36.0	21.0	21.0
max	4.0	10.0	36.0	21.0	21.0

In [8]:
```
df.isnull().sum()
```

Out[8]:
```
Department/Source                0
Name                             0
Person                           1
Gender                           0
Reference                       28
Comments                        50
Current Police Districts         0
Current Supervisor Districts     0
Analysis Neighborhoods           0
Neighborhoods                    0
SF Find Neighborhoods            0
dtype: int64
```

In [9]:
```
df['Person'].isnull().sum()
```

Out[9]:
```
1
```

In [10]:
```
df.dtypes
```

Out[10]:
```
Department/Source               object
Name                            object
Person                          object
Gender                          object
Reference                       object
Comments                        object
Current Police Districts         int64
Current Supervisor Districts     int64
Analysis Neighborhoods           int64
Neighborhoods                    int64
SF Find Neighborhoods            int64
dtype: object
```

In [11]:
```
df['Gender'].value_counts()
```

Out[11]:
```
M        53
F        19
F & M     8
M & F     1
M & M     1
Name: Gender, dtype: int64
```

In [12]:
```
Pcntg = df['Gender'].value_counts(normalize = True)*100
Pcntg
```

Out[12]:
```
M        64.634146
F        23.170732
F & M     9.756098
M & F     1.219512
M & M     1.219512
Name: Gender, dtype: float64
```

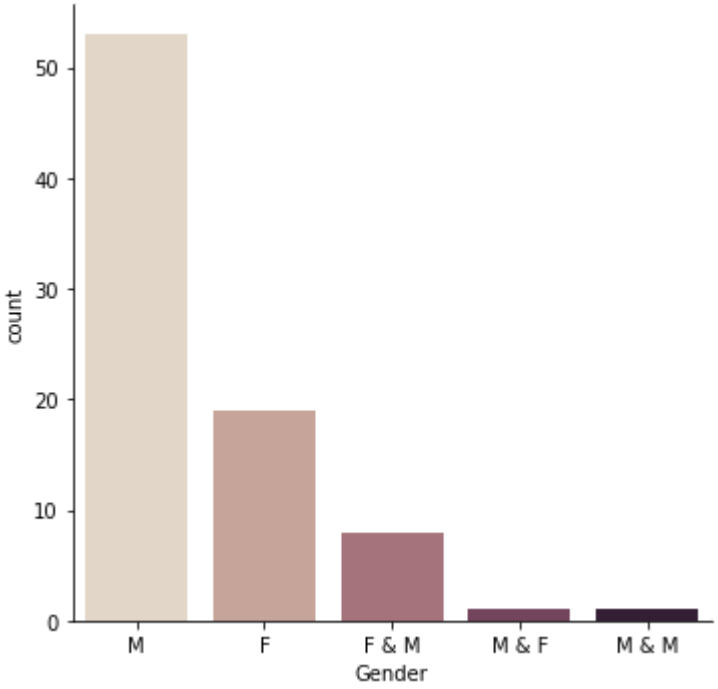
In [13]:
```
df2 = pd.DataFrame(Pcntg)
df2 = df2.rename_axis('gender')
df2= df2.rename(columns={'Gender': 'Percentage'})
df2
```

Out[13]:

gender	Percentage
M	64.634146
F	23.170732
F & M	9.756098
M & F	1.219512
M & M	1.219512

In [14]:
```
sns.catplot(x="Gender", kind="count", palette="ch:.25", data=df)
```

Out[14]:
```
<seaborn.axisgrid.FacetGrid at 0x1b487937f48>
```



In [ ]:
```

```