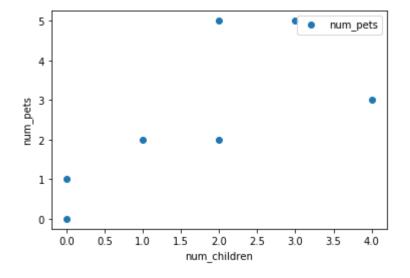
In [4]: ▶ #print dataframe df

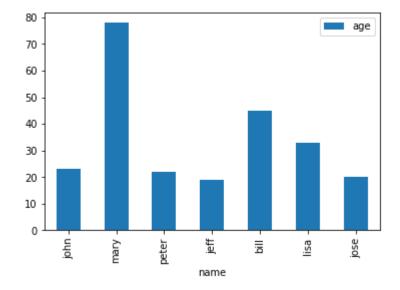
Out[4]:

	name	age	gender	state	num_children	num_pets
0	john	23	М	california	2	5
1	mary	78	F	dc	0	1
2	peter	22	М	california	0	0
3	jeff	19	М	dc	3	5
4	bill	45	М	california	2	2
5	lisa	33	F	texas	1	2
6	jose	20	М	texas	4	3

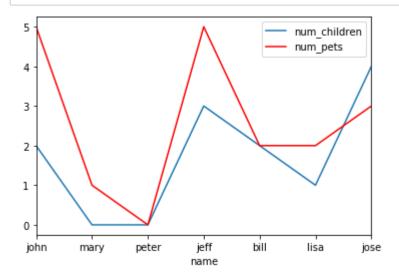


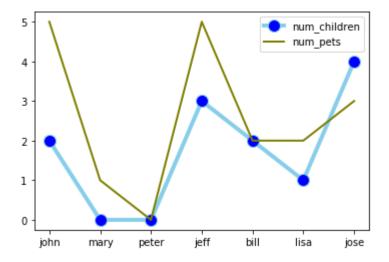
```
In [7]: #bar chart
df.plot(kind='bar',x='name',y='age')
```

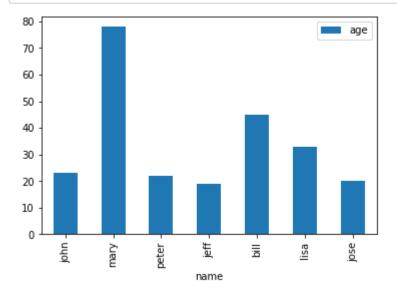
Out[7]: <matplotlib.axes._subplots.AxesSubplot at 0x158c56358d0>



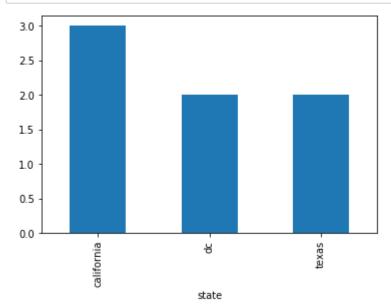
In [9]: # line chart with different Legends ax = plt.gca() df.plot(kind='line',x='name',y='num_children',ax=ax) df.plot(kind='line',x='name',y='num_pets', color='red', ax=ax) plt.show() plt.plot('name', 'num_children', data=df, marker='o', markerfacecolor='blue' plt.plot('name', 'num_pets', data=df, marker='', color='olive', linewidth=2) plt.legend() plt.show()



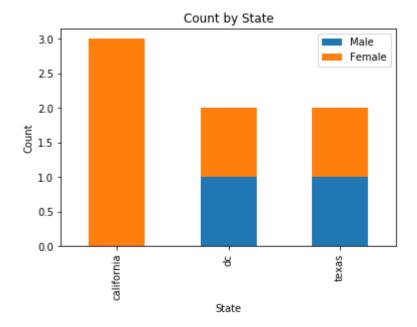




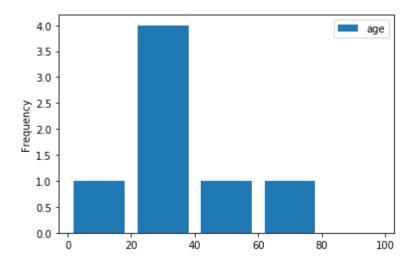
In [11]: #aggregate values and show
 df.groupby('state')['name'].nunique().plot(kind='bar')
 plt.show()



				state	num_children	num_pets
0	john	23	М	california	2	5
1	mary	78	F	dc	0	1
2	peter	22	М	california	0	0
3	jeff	19	М	dc	3	5
4	bill	45	М	california	2	2
5	lisa	33	F	texas	1	2
6	jose	20	М	texas	4	3

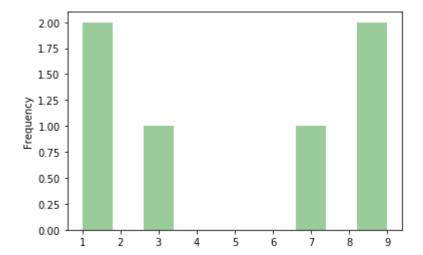


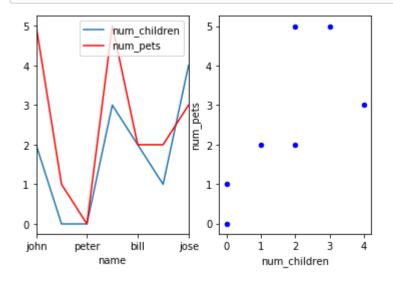
	name	age	gender	state	num_children	num_pets
0	john	23	М	california	2	5
1	mary	78	F	dc	0	1
2	peter	22	М	california	0	0
3	jeff	19	М	dc	3	5
4	bill	45	М	california	2	2
5	lisa	33	F	texas	1	2
6	jose	20	М	texas	4	3



```
name date_of_birth
    john
0
            01/21/1988
1
    lisa
            03/10/1977
2
  peter
            07/25/1999
3
   carl
            01/22/1977
4 linda
            09/30/1968
5 betty
            09/15/1970
```

In [15]: M df1['date_of_birth'] = pd.to_datetime(df1['date_of_birth'],infer_datetime_for
 plt.clf() #clear the figure
 df1['date_of_birth'].map(lambda d: d.month).plot(kind='hist',alpha = 0.4,colo
 plt.show()





In [18]: #list the available styles and themes print(plt.style.available)

['bmh', 'classic', 'dark_background', 'fast', 'fivethirtyeight', 'ggplot', 'grayscale', 'seaborn-bright', 'seaborn-colorblind', 'seaborn-dark-palett e', 'seaborn-dark', 'seaborn-darkgrid', 'seaborn-deep', 'seaborn-muted', 's eaborn-notebook', 'seaborn-paper', 'seaborn-pastel', 'seaborn-poster', 'seaborn-talk', 'seaborn-ticks', 'seaborn-white', 'seaborn-whitegrid', 'seaborn', 'Solarize_Light2', 'tableau-colorblind10', '_classic_test']

```
In [20]:  #change the style
plt.style.use('ggplot')
```

