In [2]: import numpy as np
 import pandas as pd
 import matplotlib.pyplot as plt
 import seaborn as sns

Out[3]:

	index	SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост
0	1357	HARYANA DELHI & CHANDIGARH	1901	35.4	28.9	11.1	0.0	5.1	13.2	126.4	151.5	10.5	2.0
1	1358	HARYANA DELHI & CHANDIGARH	1902	0.0	0.7	2.9	10.2	15.8	74.6	149.3	97.1	59.8	9.3
2	1359	HARYANA DELHI & CHANDIGARH	1903	14.7	0.5	2.3	0.5	8.5	8.6	151.6	138.2	97.7	4.0
3	1360	HARYANA DELHI & CHANDIGARH	1904	7.6	0.7	48.0	0.5	29.3	34.3	109.7	162.9	102.3	1.5
4	1361	HARYANA DELHI & CHANDIGARH	1905	44.8	20.8	14.0	1.3	7.4	20.1	93.6	23.1	92.6	0.0
110	1467	HARYANA DELHI & CHANDIGARH	2011	0.7	26.7	6.9	8.9	28.7	94.4	85.0	127.3	133.1	0.0
111	1468	HARYANA DELHI & CHANDIGARH	2012	8.2	0.2	0.1	11.8	3.8	5.3	68.1	196.6	90.7	2.4
112	1469	HARYANA DELHI & CHANDIGARH	2013	21.1	52.2	5.3	3.3	1.4	62.1	96.5	161.9	42.8	10.9
113	1470	HARYANA DELHI & CHANDIGARH	2014	13.0	17.3	26.8	7.5	20.3	25.9	72.3	34.8	67.3	10.5
114	1471	HARYANA DELHI & CHANDIGARH	2015	12.4	6.6	71.8	34.8	8.4	43.7	130.3	89.2	32.1	3.7

115 rows × 20 columns

In [4]: df=df.dropna()
df

Out[4]:

	index	SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ
0	1357	HARYANA DELHI & CHANDIGARH	1901	35.4	28.9	11.1	0.0	5.1	13.2	126.4	151.5	10.5	2.0
1	1358	HARYANA DELHI & CHANDIGARH	1902	0.0	0.7	2.9	10.2	15.8	74.6	149.3	97.1	59.8	9.3
2	1359	HARYANA DELHI & CHANDIGARH	1903	14.7	0.5	2.3	0.5	8.5	8.6	151.6	138.2	97.7	4.0
3	1360	HARYANA DELHI & CHANDIGARH	1904	7.6	0.7	48.0	0.5	29.3	34.3	109.7	162.9	102.3	1.5
4	1361	HARYANA DELHI & CHANDIGARH	1905	44.8	20.8	14.0	1.3	7.4	20.1	93.6	23.1	92.6	0.0
110	1467	HARYANA DELHI & CHANDIGARH	2011	0.7	26.7	6.9	8.9	28.7	94.4	85.0	127.3	133.1	0.0
111	1468	HARYANA DELHI & CHANDIGARH	2012	8.2	0.2	0.1	11.8	3.8	5.3	68.1	196.6	90.7	2.4
112	1469	HARYANA DELHI & CHANDIGARH	2013	21.1	52.2	5.3	3.3	1.4	62.1	96.5	161.9	42.8	10.9
113	1470	HARYANA DELHI & CHANDIGARH	2014	13.0	17.3	26.8	7.5	20.3	25.9	72.3	34.8	67.3	10.5
114	1471	HARYANA DELHI & CHANDIGARH	2015	12.4	6.6	71.8	34.8	8.4	43.7	130.3	89.2	32.1	3.7

115 rows × 20 columns

In [5]: df.columns

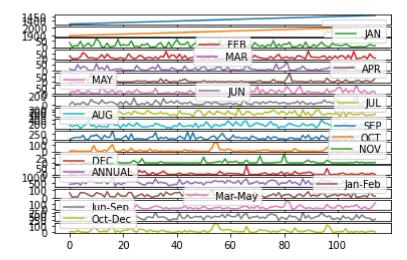
In [6]: df.info()

<class 'pandas.core.frame.DataFrame'>
Int64Index: 115 entries, 0 to 114
Data columns (total 20 columns):

#	Column	Non-Null Count	Dtype					
0	index	115 non-null	int64					
1	SUBDIVISION	115 non-null	object					
2	YEAR	115 non-null	int64					
3	JAN	115 non-null	float64					
4	FEB	115 non-null	float64					
5	MAR	115 non-null	float64					
6	APR	115 non-null	float64					
7	MAY	115 non-null	float64					
8	JUN	115 non-null	float64					
9	JUL	115 non-null	float64					
10	AUG	115 non-null	float64					
11	SEP	115 non-null	float64					
12	OCT	115 non-null	float64					
13	NOV	115 non-null	float64					
14	DEC	115 non-null	float64					
15	ANNUAL	115 non-null	float64					
16	Jan-Feb	115 non-null	float64					
17	Mar-May	115 non-null	float64					
18	Jun-Sep	115 non-null	float64					
19	Oct-Dec	115 non-null	float64					
dtype	es: float64(1	7), int64(2), ol	oject(1)					
memory usage: 18.9+ KB								

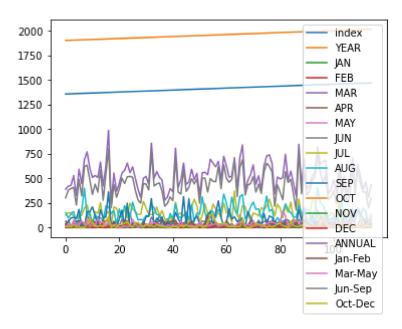
In [7]: | df.plot.line(subplots=True)

Out[7]: array([<AxesSubplot:>, <AxesSubplot:>, <AxesSubplot:>], dtype=object)



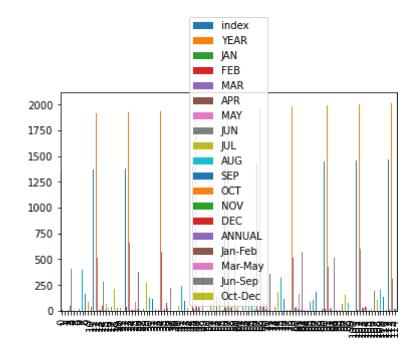
In [8]: df.plot.line()

Out[8]: <AxesSubplot:>



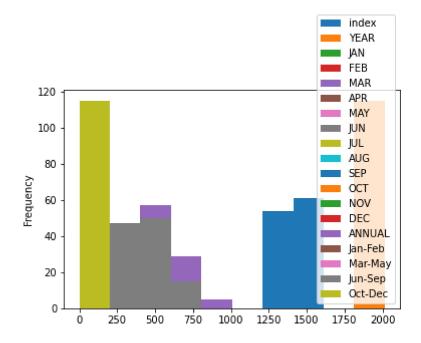
In [9]: df.plot.bar()

Out[9]: <AxesSubplot:>



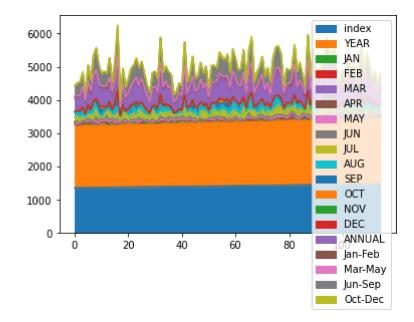
In [10]: df.plot.hist()

Out[10]: <AxesSubplot:ylabel='Frequency'>



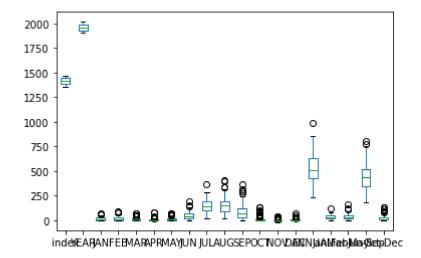
In [11]: df.plot.area()

Out[11]: <AxesSubplot:>

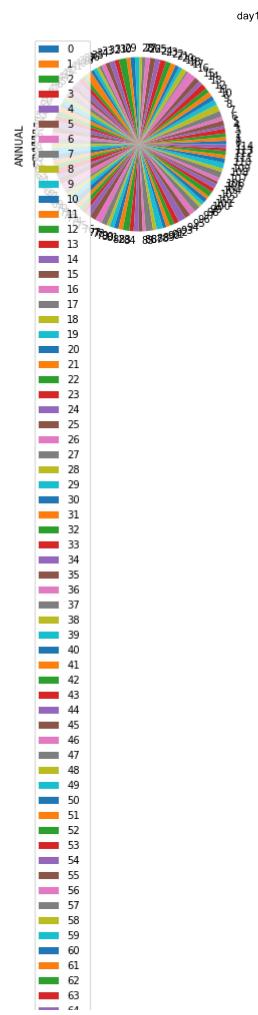


In [12]: df.plot.box()

Out[12]: <AxesSubplot:>



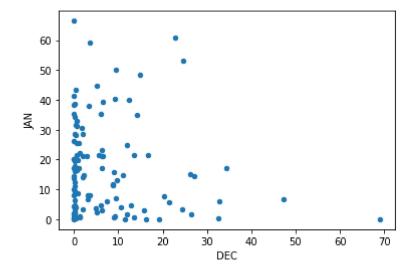
```
In [13]: df.plot.pie(y='ANNUAL')
Out[13]: <AxesSubplot:ylabel='ANNUAL'>
```





In [14]: df.plot.scatter(x='DEC',y='JAN')

Out[14]: <AxesSubplot:xlabel='DEC', ylabel='JAN'>



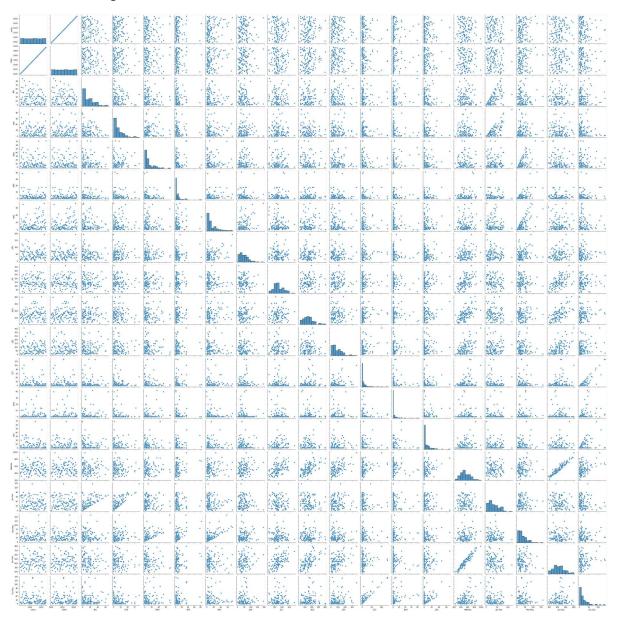
In [15]: df.describe()

Out[15]:

	index	YEAR	JAN	FEB	MAR	APR	MAY	
cou	nt 115.000000	115.000000	115.000000	115.000000	115.000000	115.000000	115.000000	11!
mea	n 1414.000000	1958.000000	16.889565	17.433913	12.935652	7.633913	14.533913	4
s	td 33.341666	33.341666	15.514478	18.893422	15.251840	12.847533	15.900347	3,
m	in 1357.000000	1901.000000	0.000000	0.000000	0.000000	0.000000	0.000000	:
25	% 1385.500000	1929.500000	3.550000	2.250000	2.100000	0.800000	3.700000	24
50	% 1414.000000	1958.000000	14.300000	12.100000	7.200000	2.800000	7.900000	4:
75	% 1442.500000	1986.500000	25.150000	27.850000	17.700000	8.750000	20.700000	61
ma	1471.000000	2015.000000	66.500000	91.000000	71.800000	82.500000	72.900000	19:
4								

In [16]: sns.pairplot(df)

Out[16]: <seaborn.axisgrid.PairGrid at 0x149a4caf6d0>

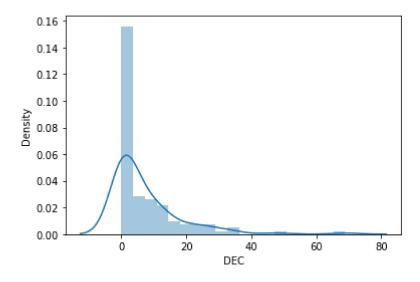


In [17]: | sns.distplot(df['DEC'])

C:\ProgramData\Anaconda3\lib\site-packages\seaborn\distributions.py:2557: Fut ureWarning: `distplot` is a deprecated function and will be removed in a futu re version. Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).

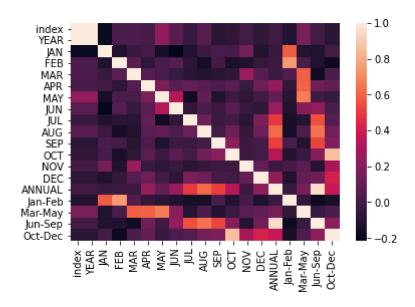
warnings.warn(msg, FutureWarning)

Out[17]: <AxesSubplot:xlabel='DEC', ylabel='Density'>



In [18]: sns.heatmap(df.corr())

Out[18]: <AxesSubplot:>



In []: