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

Out[2]:

index		SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
0	0	ANDAMAN & NICOBAR ISLANDS	1901	49.2	87.1	29.2	2.3	528.8	517.5	365.1	481.1	332.6
1	1	ANDAMAN & NICOBAR ISLANDS	1902	0.0	159.8	12.2	0.0	446.1	537.1	228.9	753.7	666.2
2	2	ANDAMAN & 2 NICOBAR ISLANDS		12.7	144.0	0.0	1.0	235.1	479.9	728.4	326.7	339.0
3	3	ANDAMAN & NICOBAR ISLANDS	1904	9.4	14.7	0.0	202.4	304.5	495.1	502.0	160.1	820.4
4	4	ANDAMAN & NICOBAR ISLANDS	1905	1.3	0.0	3.3	26.9	279.5	628.7	368.7	330.5	297.0
4111	4111	LAKSHADWEEP	2011	5.1	2.8	3.1	85.9	107.2	153.6	350.2	254.0	255.2
4112	4112	LAKSHADWEEP	2012	19.2	0.1	1.6	76.8	21.2	327.0	231.5	381.2	179.8
4113	4113	LAKSHADWEEP	2013	26.2	34.4	37.5	5.3	88.3	426.2	296.4	154.4	180.0
4114	4114	LAKSHADWEEP	2014	53.2	16.1	4.4	14.9	57.4	244.1	116.1	466.1	132.2
4115	4115	LAKSHADWEEP	2015	2.2	0.5	3.7	87.1	133.1	296.6	257.5	146.4	160.4
4116 r	ows ×	20 columns										
4												

Naga Mizo tripura

In [18]: df=data.iloc[322:437]
 df

Out[18]:

	index	SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	0(
322	322	NAGA MANI MIZO TRIPURA	1901	11.7	18.1	29.4	206.2	124.0	443.3	331.4	466.0	304.1	16(
323	323	NAGA MANI MIZO TRIPURA	1902	4.8	0.5	36.3	297.8	215.5	480.1	392.4	312.8	318.7	102
324	324	NAGA MANI MIZO TRIPURA	1903	6.5	40.5	139.8	45.5	159.9	458.6	300.2	470.6	366.1	16(
325	325	NAGA MANI MIZO TRIPURA	1904	2.3	46.9	47.5	290.3	230.5	455.3	423.5	423.6	375.8	12{
326	326	NAGA MANI MIZO TRIPURA	1905	9.1	35.3	306.5	161.7	193.6	339.7	450.1	429.9	320.1	24(
432	432	NAGA MANI MIZO TRIPURA	2011	12.6	3.6	51.4	81.1	334.9	374.2	313.3	367.6	258.3	92
433	433	NAGA MANI MIZO TRIPURA	2012	24.5	10.2	20.3	243.5	163.5	396.2	280.1	342.7	248.7	16(
434	434	NAGA MANI MIZO TRIPURA	2013	0.2	5.7	19.7	60.3	348.9	206.6	255.9	291.3	241.4	12{
435	435	NAGA MANI MIZO TRIPURA	2014	1.2	21.0	25.4	49.6	192.5	268.3	295.7	372.3	300.9	69
436	436	NAGA MANI MIZO TRIPURA	2015	14.4	14.2	21.6	253.5	198.3	283.9	413.6	334.2	255.9	118

115 rows × 20 columns

4

In [4]: df.head()

Out[4]:

	index	SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	0(
321	321	ASSAM & MEGHALAYA	2015	13.4	15.5	37.5	250.9	332.5	558.5	300.1	590.9	279.9	62
322	322	NAGA MANI MIZO TRIPURA	1901	11.7	18.1	29.4	206.2	124.0	443.3	331.4	466.0	304.1	16(
323	323	NAGA MANI MIZO TRIPURA	1902	4.8	0.5	36.3	297.8	215.5	480.1	392.4	312.8	318.7	102
324	324	NAGA MANI MIZO TRIPURA	1903	6.5	40.5	139.8	45.5	159.9	458.6	300.2	470.6	366.1	16(
325	325	NAGA MANI MIZO TRIPURA	1904	2.3	46.9	47.5	290.3	230.5	455.3	423.5	423.6	375.8	128
4													•

In [5]: df.tail()

Out[5]:

	index	SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OC
432	432	NAGA MANI MIZO TRIPURA	2011	12.6	3.6	51.4	81.1	334.9	374.2	313.3	367.6	258.3	92
433	433	NAGA MANI MIZO TRIPURA	2012	24.5	10.2	20.3	243.5	163.5	396.2	280.1	342.7	248.7	160
434	434	NAGA MANI MIZO TRIPURA	2013	0.2	5.7	19.7	60.3	348.9	206.6	255.9	291.3	241.4	125
435	435	NAGA MANI MIZO TRIPURA	2014	1.2	21.0	25.4	49.6	192.5	268.3	295.7	372.3	300.9	69
436	436	NAGA MANI MIZO TRIPURA	2015	14.4	14.2	21.6	253.5	198.3	283.9	413.6	334.2	255.9	118
4													•

In [6]: df.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 116 entries, 321 to 436
Data columns (total 20 columns):

#	Column	Non-Null Count	Dtype
0	index	116 non-null	int64
1	SUBDIVISION	116 non-null	object
2	YEAR	116 non-null	int64
3	JAN	116 non-null	float64
4	FEB	116 non-null	float64
5	MAR	116 non-null	float64
6	APR	116 non-null	float64
7	MAY	116 non-null	float64
8	JUN	116 non-null	float64
9	JUL	116 non-null	float64
10	AUG	116 non-null	float64
11	SEP	116 non-null	float64
12	OCT	116 non-null	float64
13	NOV	116 non-null	float64
14	DEC	116 non-null	float64
15	ANNUAL	116 non-null	float64
16	Jan-Feb	116 non-null	float64
17	Mar-May	116 non-null	float64
18	Jun-Sep	116 non-null	float64
19	Oct-Dec	116 non-null	float64
dtyp	es: float64(1	7), int64(2), ob	ject(1)

memory usage: 18.3+ KB

In [7]: df1=data.fillna(0) df1

Out[7]:

index		SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
0	0	ANDAMAN & NICOBAR ISLANDS	1901	49.2	87.1	29.2	2.3	528.8	517.5	365.1	481.1	332.6
1	1	ANDAMAN & NICOBAR ISLANDS	1902	0.0	159.8	12.2	0.0	446.1	537.1	228.9	753.7	666.2
2	2	ANDAMAN & NICOBAR ISLANDS	1903	12.7	144.0	0.0	1.0	235.1	479.9	728.4	326.7	339.0
3	3	ANDAMAN & NICOBAR ISLANDS	1904	9.4	14.7	0.0	202.4	304.5	495.1	502.0	160.1	820.4
4	4	ANDAMAN & NICOBAR ISLANDS	1905	1.3	0.0	3.3	26.9	279.5	628.7	368.7	330.5	297.0
4111	4111	LAKSHADWEEP	2011	5.1	2.8	3.1	85.9	107.2	153.6	350.2	254.0	255.2
4112	4112	LAKSHADWEEP	2012	19.2	0.1	1.6	76.8	21.2	327.0	231.5	381.2	179.8
4113	4113	LAKSHADWEEP	2013	26.2	34.4	37.5	5.3	88.3	426.2	296.4	154.4	180.0
4114	4114	LAKSHADWEEP	2014	53.2	16.1	4.4	14.9	57.4	244.1	116.1	466.1	132.2
4115	4115	LAKSHADWEEP	2015	2.2	0.5	3.7	87.1	133.1	296.6	257.5	146.4	160.4

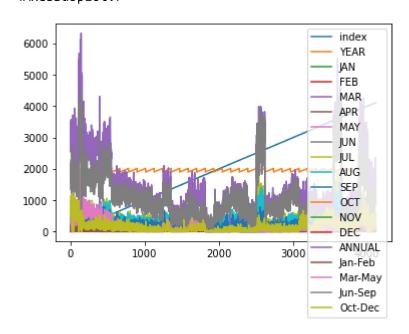
4116 rows × 20 columns

In [8]: df1.describe()

Out[8]:

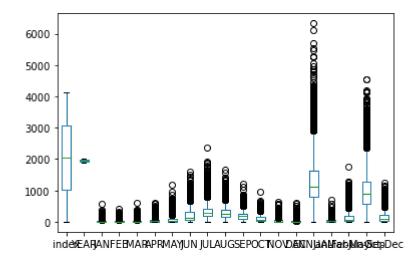
	index	YEAR	JAN	FEB	MAR	APR	MA
count	4116.000000	4116.000000	4116.000000	4116.000000	4116.000000	4116.000000	4116.00000
mean	2057.500000	1958.218659	18.938897	21.789431	27.319315	43.085520	85.68292
std	1188.331183	33.140898	33.574242	35.901220	46.936787	67.811512	123.2117 [,]
min	0.000000	1901.000000	0.000000	0.000000	0.000000	0.000000	0.00000
25%	1028.750000	1930.000000	0.600000	0.600000	1.000000	3.000000	8.60000
50%	2057.500000	1958.000000	6.000000	6.700000	7.800000	15.600000	36.40000
75%	3086.250000	1987.000000	22.125000	26.800000	31.225000	49.825000	96.82500
max	4115.000000	2015.000000	583.700000	403.500000	605.600000	595.100000	1168.60000
4							•

Out[10]: <AxesSubplot:>



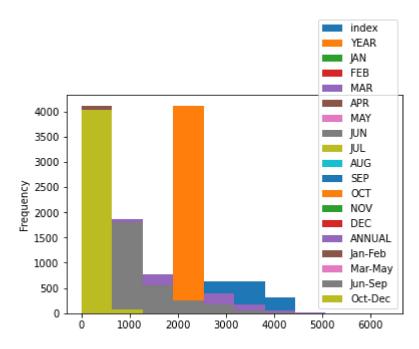


Out[11]: <AxesSubplot:>



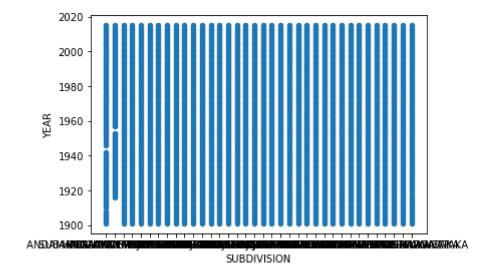
In [12]: df1.plot.hist()

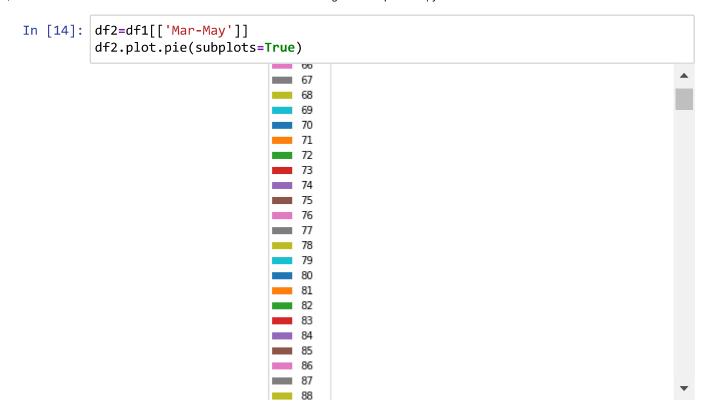
Out[12]: <AxesSubplot:ylabel='Frequency'>



In [13]: df1.plot.scatter(x="SUBDIVISION",y="YEAR")

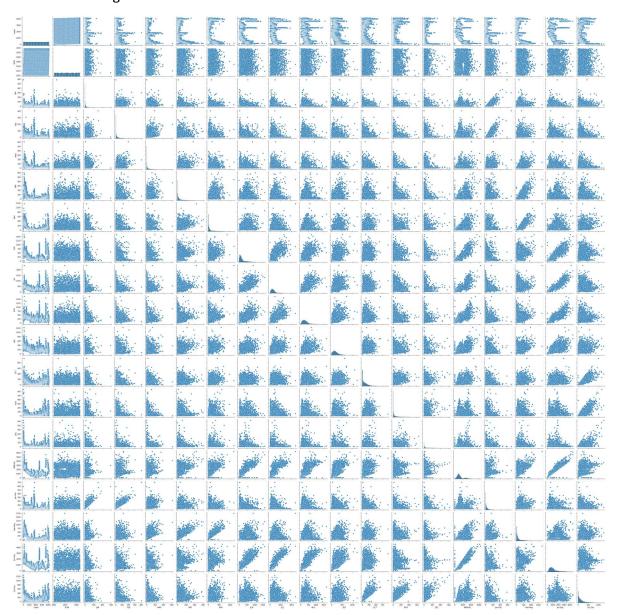
Out[13]: <AxesSubplot:xlabel='SUBDIVISION', ylabel='YEAR'>





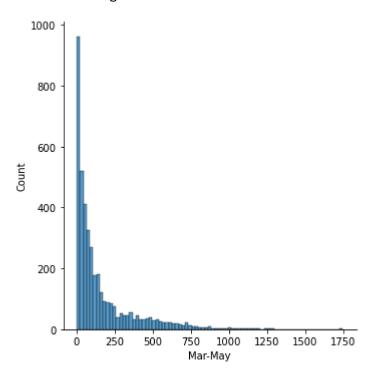
In [19]: sns.pairplot(df1)

Out[19]: <seaborn.axisgrid.PairGrid at 0x1c770d0c520>



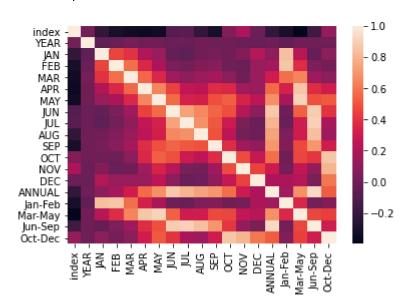
In [20]: sns.displot(data["Mar-May"])

Out[20]: <seaborn.axisgrid.FacetGrid at 0x1c71c5359a0>



In [21]: sns.heatmap(df1.corr())

Out[21]: <AxesSubplot:>



```
In [ ]:
```