Vijay(Book12) 04/08/2023

Out[2]:

	index	SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ
0	2737	MATATHWADA	1901	15.8	3.3	32.1	48.5	26.5	193.1	184.1	249.8	74.0	81.€
1	2738	MATATHWADA	1902	1.3	0.0	0.4	7.2	8.0	52.4	120.9	85.2	273.3	61.3
2	2739	MATATHWADA	1903	2.6	0.8	0.0	1.7	58.3	104.4	264.2	281.9	173.3	139.9
3	2740	MATATHWADA	1904	0.0	0.9	12.1	0.3	7.2	79.2	118.4	57.3	339.0	76.2
4	2741	MATATHWADA	1905	1.3	2.0	0.0	6.6	4.8	84.6	94.8	137.6	157.8	15.4
													•••
110	2847	MATATHWADA	2011	0.0	3.8	0.7	3.5	3.1	79.2	230.1	228.5	90.0	24.8
111	2848	MATATHWADA	2012	0.0	0.0	0.0	0.6	2.3	72.2	161.1	101.4	120.0	68.8
112	2849	MATATHWADA	2013	1.5	9.4	2.6	7.9	6.4	160.9	293.4	136.9	154.1	94.3
113	2850	MATATHWADA	2014	1.4	13.4	79.0	11.9	7.0	30.4	105.0	178.9	84.5	14.2
114	2851	MATATHWADA	2015	10.1	1.6	32.0	39.6	12.3	118.3	27.4	112.2	154.3	19.5

115 rows × 20 columns

```
In [3]: 1 a.info()
```

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 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)					
momony usage 19 1, VD								

memory usage: 18.1+ KB

```
In [4]: 1 b=a.fillna(method='ffill')
2 b
```

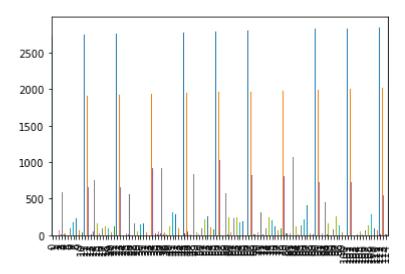
Out[4]:

	index	SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ
0	2737	MATATHWADA	1901	15.8	3.3	32.1	48.5	26.5	193.1	184.1	249.8	74.0	81.6
1	2738	MATATHWADA	1902	1.3	0.0	0.4	7.2	0.8	52.4	120.9	85.2	273.3	61.3
2	2739	MATATHWADA	1903	2.6	8.0	0.0	1.7	58.3	104.4	264.2	281.9	173.3	139.9
3	2740	MATATHWADA	1904	0.0	0.9	12.1	0.3	7.2	79.2	118.4	57.3	339.0	76.2
4	2741	MATATHWADA	1905	1.3	2.0	0.0	6.6	4.8	84.6	94.8	137.6	157.8	15.4
													•••
110	2847	MATATHWADA	2011	0.0	3.8	0.7	3.5	3.1	79.2	230.1	228.5	90.0	24.8
111	2848	MATATHWADA	2012	0.0	0.0	0.0	0.6	2.3	72.2	161.1	101.4	120.0	3.86
112	2849	MATATHWADA	2013	1.5	9.4	2.6	7.9	6.4	160.9	293.4	136.9	154.1	94.3
113	2850	MATATHWADA	2014	1.4	13.4	79.0	11.9	7.0	30.4	105.0	178.9	84.5	14.2
114	2851	MATATHWADA	2015	10.1	1.6	32.0	39.6	12.3	118.3	27.4	112.2	154.3	19.5

115 rows × 20 columns

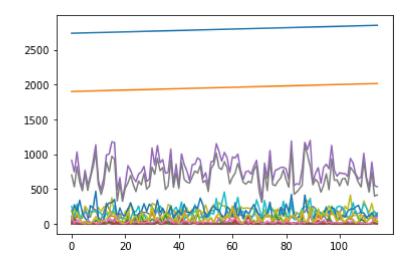
In [5]: 1 b.plot.bar(legend=None)

Out[5]: <AxesSubplot:>



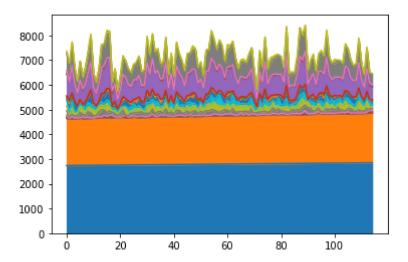
In [6]: 1 b.plot.line(legend=None)

Out[6]: <AxesSubplot:>



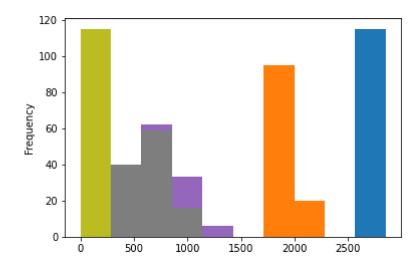
In [7]: 1 b.plot.area(legend=None)

Out[7]: <AxesSubplot:>



In [8]: 1 b.plot.hist(legend=None)

Out[8]: <AxesSubplot:ylabel='Frequency'>



In [9]: 1 b.plot.pie(y='SEP',figsize=(8,8),labels=None,legend=None)

Out[9]: <AxesSubplot:ylabel='SEP'>



In []: 1