import pandas as pd
df=pd.read_csv("SAMPLEIDS.csv")
df

	SNO	REGNO	NAME	DOB	GENDER	ADDRESS	M1	M2	МЗ	M4	TOTAL	AV
0	1	1220121	ARUN	2000-02- 10	MALE	THANDALAM	82.0	81.0	90.0	NaN	NaN	Naf
1	2	1220122	BABU	1999-01- 25	MALE	KANCHIPURAM	56.0	61.0	80.0	56.0	253.0	84.33333
2	3	1220123	CHARAN	2000.09.21	MALE	THANDALAM	NaN	59.0	60.0	70.0	NaN	0.00000
3	4	1220124	DEVA	2000-11- 09	MALE	POONAMALEE	74.0	79.0	80.0	74.0	307.0	102.33333
4	5	1220125	ESTER	2000-11- 21	FEMALE	CHITHUR	92.0	95.0	96.0	92.0	375.0	125.00000
5	6	1220126	FARHANA	1999-03- 05	FEMALE	THANDALAM	91.0	88.0	90.0	91.0	360.0	120.00000
6	7	1220127	GANI	2000-10- 02	MALE	KANCHIPURAM	49.0	51.0	70.0	49.0	219.0	73.00000
7	7	1220127	GANI	2000-10- 02	MALE	KANCHIPURAM	49.0	51.0	70.0	49.0	219.0	73.00000
8	8	1220128	HEMA	1999-01- 25	FEMALE	POONAMALEE	95.0	96.0	90.0	95.0	376.0	125.33333
9	9	1220129	INDRA	2000.09.21	FEMALE	KANCHIPURAM	64.0	NaN	NaN	64.0	NaN	0.00000
10	10	1220130	JAHITH	2000-11- 09	MALE	THANDALAM	34.0	45.0	50.0	34.0	163.0	54.33333
11	11	1220131	KANI	2000-11- 21	FEMALE	CHITHUR	96.0	95.0	96.0	96.0	383.0	127.66666
12	12	1220132	LATHESSH	1999-03- 05	MALE	THANDALAM	NaN	68.0	70.0	70.0	208.0	69.33333
13	13	1220133	MANI	2000-10- 02	MALE	KANCHIPURAM	71.0	76.0	NaN	71.0	NaN	0.00000
14	14	1220134	NANI	20001109	MALE	POONAMALEE	79.0	77.0	80.0	79.0	315.0	105.00000
15	15	1220135	NaN	19990125	NaN	NaN	NaN	NaN	NaN	NaN	0.0	0.00000
16	16	1220136	PRATHAP	20000921	MALE	KANCHIPURAM	86.0	84.0	90.0	86.0	346.0	115.3333
17	17	1220137	RAGHU	20001109	MALE	POONAMALEE	67.0	64.0	70.0	NaN	201.0	67.0000
18	18	1220138	RATHI	20001121	FEMALE	KANCHIPURAM	81.0	86.0	90.0	81.0	338.0	112.6666
19	19	1220139	SARVESH	19990305	MALE	THANDALAM	84.0	87.0	NaN	84.0	NaN	0.0000
20	20	1220140	SANTHOSH	20001002	MALE	KANCHIPURAM	76.0	69.0	80.0	76.0	301.0	100.3333

Next steps: Generate code with df

View recommended plots

New interactive sheet

df.isnull()

		SNO	REGNO	NAME	DOB	GENDER	ADDRESS	M1	M2	МЗ	M4	TOTAL	AVG
	0	False	False	False	False	False	False	False	False	False	True	True	True
	1	False	False	False	False	False	False	False	False	False	False	False	False
	2	False	False	False	False	False	False	True	False	False	False	True	False
	3	False	False	False	False	False	False	False	False	False	False	False	False
	4	False	False	False	False	False	False	False	False	False	False	False	False
	5	False	False	False	False	False	False	False	False	False	False	False	False
	6	False	False	False	False	False	False	False	False	False	False	False	False
	7	False	False	False	False	False	False	False	False	False	False	False	False
	8	False	False	False	False	False	False	False	False	False	False	False	False
	9	False	False	False	False	False	False	False	True	True	False	True	False
	10	False	False	False	False	False	False	False	False	False	False	False	False
	11	False	False	False	False	False	False	False	False	False	False	False	False
	12	False	False	False	False	False	False	True	False	False	False	False	False
	13	False	False	False	False	False	False	False	False	True	False	True	False
	14	False	False	False	False	False	False	False	False	False	False	False	False
	15	False	False	True	False	True	True	True	True	True	True	False	False
	16	False	False	False	False	False	False	False	False	False	False	False	False
	17	False	False	False	False	False	False	False	False	False	True	False	False
	18	False	False	False	False	False	False	False	False	False	False	False	False
	19	False	False	False	False	False	False	False	False	True	False	True	False
:	20	False	False	False	False	False	False	False	False	False	False	False	False

```
df.isnull().sum()
          0
   SNO
          0
 REGNO
          0
  NAME
          1
  DOB
          0
 GENDER 1
ADDRESS 1
   M1
          3
          2
   M2
   М3
          4
   Μ4
          3
  TOTAL
          5
   AVG
          1
dtype: int64
```

df.isnull().any()

```
df.dropna(axis=1)
                              \blacksquare
           REGNO
                        DOB
    SNO
 0
    1 1220121 2000-02-10
                              th
 1
      2 1220122 1999-01-25
      3 1220123 2000.09.21
      4 1220124 2000-11-09
 3
      5 1220125 2000-11-21
      6 1220126 1999-03-05
      7 1220127 2000-10-02
 7
      7 1220127 2000-10-02
      8 1220128 1999-01-25
      9 1220129 2000.09.21
     10 1220130 2000-11-09
10
     11 1220131
                  2000-11-21
12
     12 1220132 1999-03-05
    13 1220133 2000-10-02
13
14
    14 1220134
                   20001109
15
     15 1220135
                   19990125
     16 1220136
                   20000921
16
                   20001109
17
     17 1220137
18
     18 1220138
                   20001121
     19 1220139
19
                   19990305
20
     20 1220140
                   20001002
```

```
df.dropna(axis=0)
```

	SNO	REGNO	NAME	DOB	GENDER	ADDRESS	M1	M2	МЗ	M4	TOTAL	AVG
1	2	1220122	BABU	1999-01- 25	MALE	KANCHIPURAM	56.0	61.0	80.0	56.0	253.0	84.333333
3	4	1220124	DEVA	2000-11- 09	MALE	POONAMALEE	74.0	79.0	80.0	74.0	307.0	102.333333
4	5	1220125	ESTER	2000-11- 21	FEMALE	CHITHUR	92.0	95.0	96.0	92.0	375.0	125.000000
5	6	1220126	FARHANA	1999-03- 05	FEMALE	THANDALAM	91.0	88.0	90.0	91.0	360.0	120.000000
6	7	1220127	GANI	2000-10- 02	MALE	KANCHIPURAM	49.0	51.0	70.0	49.0	219.0	73.000000
7	7	1220127	GANI	2000-10- 02	MALE	KANCHIPURAM	49.0	51.0	70.0	49.0	219.0	73.000000
8	8	1220128	HEMA	1999-01- 25	FEMALE	POONAMALEE	95.0	96.0	90.0	95.0	376.0	125.333333
10	10	1220130	JAHITH	2000-11- 09	MALE	THANDALAM	34.0	45.0	50.0	34.0	163.0	54.333333
11	11	1220131	KANI	2000-11- 21	FEMALE	CHITHUR	96.0	95.0	96.0	96.0	383.0	127.666667
14	14	1220134	NANI	20001109	MALE	POONAMALEE	79.0	77.0	80.0	79.0	315.0	105.000000
16	16	1220136	PRATHAP	20000921	MALE	KANCHIPURAM	86.0	84.0	90.0	86.0	346.0	115.333333
18	18	1220138	RATHI	20001121	FEMALE	KANCHIPURAM	81.0	86.0	90.0	81.0	338.0	112.666667
20	20	1220140	SANTHOSH	20001002	MALE	KANCHIPURAM	76.0	69.0	80.0	76.0	301.0	100.333333

	SNO	REGNO	NAME	DOB	GENDER	ADDRESS	M1	M2	М3	M4	TOTAL	А
0	1	1220121	ARUN	2000-02- 10	MALE	THANDALAM	82.0	81.0	90.0	NaN	NaN	N
1	2	1220122	BABU	1999-01- 25	MALE	KANCHIPURAM	56.0	61.0	80.0	56.0	253.0	84.3333
2	3	1220123	CHARAN	2000.09.21	MALE	THANDALAM	NaN	59.0	60.0	70.0	NaN	0.0000
3	4	1220124	DEVA	2000-11- 09	MALE	POONAMALEE	74.0	79.0	80.0	74.0	307.0	102.3333
4	5	1220125	ESTER	2000-11- 21	FEMALE	CHITHUR	92.0	95.0	96.0	92.0	375.0	125.0000
5	6	1220126	FARHANA	1999-03- 05	FEMALE	THANDALAM	91.0	88.0	90.0	91.0	360.0	120.0000
6	7	1220127	GANI	2000-10- 02	MALE	KANCHIPURAM	49.0	51.0	70.0	49.0	219.0	73.0000
7	7	1220127	GANI	2000-10- 02	MALE	KANCHIPURAM	49.0	51.0	70.0	49.0	219.0	73.0000
8	8	1220128	HEMA	1999-01- 25	FEMALE	POONAMALEE	95.0	96.0	90.0	95.0	376.0	125.3333

df.tail()

	SNO	REGNO	NAME	DOB	GENDER	ADDRESS	M1	M2	МЗ	M4	TOTAL	AVG
16	16	1220136	PRATHAP	20000921	MALE	KANCHIPURAM	86.0	84.0	90.0	86.0	346.0	115.333333
17	17	1220137	RAGHU	20001109	MALE	POONAMALEE	67.0	64.0	70.0	NaN	201.0	67.000000
18	18	1220138	RATHI	20001121	FEMALE	KANCHIPURAM	81.0	86.0	90.0	81.0	338.0	112.666667
19	19	1220139	SARVESH	19990305	MALE	THANDALAM	84.0	87.0	NaN	84.0	NaN	0.000000
20	20	1220140	SANTHOSH	20001002	MALE	KANCHIPURAM	76.0	69.0	80.0	76.0	301.0	100.333333

	SNO	REGNO	NAME	DOB	GENDER	ADDRESS	M1	M2	М3	M4	TOTAL	
0	1	1220121	ARUN	2000-02- 10	MALE	THANDALAM	82.0	81.0	90.0	empty	empty	
1	2	1220122	BABU	1999-01- 25	MALE	KANCHIPURAM	56.0	61.0	80.0	56.0	253.0	
2	3	1220123	CHARAN	2000.09.21	MALE	THANDALAM	empty	59.0	60.0	70.0	empty	
3	4	1220124	DEVA	2000-11- 09	MALE	POONAMALEE	74.0	79.0	80.0	74.0	307.0	
4	5	1220125	ESTER	2000-11- 21	FEMALE	CHITHUR	92.0	95.0	96.0	92.0	375.0	
5	6	1220126	FARHANA	1999-03- 05	FEMALE	THANDALAM	91.0	88.0	90.0	91.0	360.0	
6	7	1220127	GANI	2000-10- 02	MALE	KANCHIPURAM	49.0	51.0	70.0	49.0	219.0	
7	7	1220127	GANI	2000-10- 02	MALE	KANCHIPURAM	49.0	51.0	70.0	49.0	219.0	
8	8	1220128	HEMA	1999-01- 25	FEMALE	POONAMALEE	95.0	96.0	90.0	95.0	376.0	
9	9	1220129	INDRA	2000.09.21	FEMALE	KANCHIPURAM	64.0	empty	empty	64.0	empty	
10	10	1220130	JAHITH	2000-11- 09	MALE	THANDALAM	34.0	45.0	50.0	34.0	163.0	
11	11	1220131	KANI	2000-11- 21	FEMALE	CHITHUR	96.0	95.0	96.0	96.0	383.0	
12	12	1220132	LATHESSH	1999-03- 05	MALE	THANDALAM	empty	68.0	70.0	70.0	208.0	
13	13	1220133	MANI	2000-10- 02	MALE	KANCHIPURAM	71.0	76.0	empty	71.0	empty	
14	14	1220134	NANI	20001109	MALE	POONAMALEE	79.0	77.0	80.0	79.0	315.0	
15	15	1220135	empty	19990125	empty	empty	empty	empty	empty	empty	0.0	
16	16	1220136	PRATHAP	20000921	MALE	KANCHIPURAM	86.0	84.0	90.0	86.0	346.0	
17	17	1220137	RAGHU	20001109	MALE	POONAMALEE	67.0	64.0	70.0	empty	201.0	
18	18	1220138	RATHI	20001121	FEMALE	KANCHIPURAM	81.0	86.0	90.0	81.0	338.0	
19	19	1220139	SARVESH	19990305	MALE	THANDALAM	84.0	87.0	empty	84.0	empty	

df.fillna(method='ffill')

/tmp/ipython-input-1193302488.py:1: FutureWarning: DataFrame.fillna with 'method' is deprecated and will
 df.fillna(method='ffill')

٠	CNO	DECNO	NAME	DOD	CENDED	ADDDECC	м-1	мэ	мэ	MA	TOTAL	A)/C
	SNO	REGNO	NAME	DOB	GENDER	ADDRESS	M1	M2	М3	M4	TOTAL	AVG
0	1	1220121	ARUN	2000-02- 10	MALE	THANDALAM	82.0	81.0	90.0	NaN	NaN	NaN
1	2	1220122	BABU	1999-01- 25	MALE	KANCHIPURAM	56.0	61.0	80.0	56.0	253.0	84.333333
2	3	1220123	CHARAN	2000.09.21	MALE	THANDALAM	56.0	59.0	60.0	70.0	253.0	0.000000
3	4	1220124	DEVA	2000-11- 09	MALE	POONAMALEE	74.0	79.0	80.0	74.0	307.0	102.333333
4	5	1220125	ESTER	2000-11- 21	FEMALE	CHITHUR	92.0	95.0	96.0	92.0	375.0	125.000000
5	6	1220126	FARHANA	1999-03- 05	FEMALE	THANDALAM	91.0	88.0	90.0	91.0	360.0	120.000000
6	7	1220127	GANI	2000-10- 02	MALE	KANCHIPURAM	49.0	51.0	70.0	49.0	219.0	73.000000
7	7	1220127	GANI	2000-10- 02	MALE	KANCHIPURAM	49.0	51.0	70.0	49.0	219.0	73.000000
8	8	1220128	HEMA	1999-01- 25	FEMALE	POONAMALEE	95.0	96.0	90.0	95.0	376.0	125.333333
9	9	1220129	INDRA	2000.09.21	FEMALE	KANCHIPURAM	64.0	96.0	90.0	64.0	376.0	0.000000
10	10	1220130	JAHITH	2000-11- 09	MALE	THANDALAM	34.0	45.0	50.0	34.0	163.0	54.333333
11	11	1220131	KANI	2000-11- 21	FEMALE	CHITHUR	96.0	95.0	96.0	96.0	383.0	127.666667
12	12	1220132	LATHESSH	1999-03- 05	MALE	THANDALAM	96.0	68.0	70.0	70.0	208.0	69.333333
13	13	1220133	MANI	2000-10- 02	MALE	KANCHIPURAM	71.0	76.0	70.0	71.0	208.0	0.000000
14	14	1220134	NANI	20001109	MALE	POONAMALEE	79.0	77.0	80.0	79.0	315.0	105.000000
15	15	1220135	NANI	19990125	MALE	POONAMALEE	79.0	77.0	80.0	79.0	0.0	0.000000
16	16	1220136	PRATHAP	20000921	MALE	KANCHIPURAM	86.0	84.0	90.0	86.0	346.0	115.333333
17	17	1220137	RAGHU	20001109	MALE	POONAMALEE	67.0	64.0	70.0	86.0	201.0	67.000000
18	18	1220138	RATHI	20001121	FEMALE	KANCHIPURAM	81.0	86.0	90.0	81.0	338.0	112.666667
19	19	1220139	SARVESH	19990305	MALE	THANDALAM	84.0	87.0	90.0	84.0	338.0	0.000000
20	20	1220140	SANTHOSH	20001002	MALE	KANCHIPURAM	76.0	69.0	80.0	76.0	301.0	100.333333

df.fillna(method='bfill')

/tmp/ipython-input-2831856154.py:1: FutureWarning: DataFrame.fillna with 'method' is deprecated and will
 df.fillna(method='bfill')

	SNO	REGNO	NAME	DOB	GENDER	ADDRESS	M1	M2	МЗ	M4	TOTAL	AVG
0	1	1220121	ARUN	2000-02- 10	MALE	THANDALAM	82.0	81.0	90.0	56.0	253.0	84.333333
1	2	1220122	BABU	1999-01- 25	MALE	KANCHIPURAM	56.0	61.0	80.0	56.0	253.0	84.333333
2	3	1220123	CHARAN	2000.09.21	MALE	THANDALAM	74.0	59.0	60.0	70.0	307.0	0.000000
3	4	1220124	DEVA	2000-11- 09	MALE	POONAMALEE	74.0	79.0	80.0	74.0	307.0	102.333333
4	5	1220125	ESTER	2000-11- 21	FEMALE	CHITHUR	92.0	95.0	96.0	92.0	375.0	125.000000
5	6	1220126	FARHANA	1999-03- 05	FEMALE	THANDALAM	91.0	88.0	90.0	91.0	360.0	120.000000
6	7	1220127	GANI	2000-10- 02	MALE	KANCHIPURAM	49.0	51.0	70.0	49.0	219.0	73.000000
7	7	1220127	GANI	2000-10- 02	MALE	KANCHIPURAM	49.0	51.0	70.0	49.0	219.0	73.000000
8	8	1220128	HEMA	1999-01- 25	FEMALE	POONAMALEE	95.0	96.0	90.0	95.0	376.0	125.333333
9	9	1220129	INDRA	2000.09.21	FEMALE	KANCHIPURAM	64.0	45.0	50.0	64.0	163.0	0.000000
10	10	1220130	JAHITH	2000-11- 09	MALE	THANDALAM	34.0	45.0	50.0	34.0	163.0	54.333333
11	11	1220131	KANI	2000-11- 21	FEMALE	CHITHUR	96.0	95.0	96.0	96.0	383.0	127.666667
12	12	1220132	LATHESSH	1999-03- 05	MALE	THANDALAM	71.0	68.0	70.0	70.0	208.0	69.333333
13	13	1220133	MANI	2000-10- 02	MALE	KANCHIPURAM	71.0	76.0	80.0	71.0	315.0	0.000000
14	14	1220134	NANI	20001109	MALE	POONAMALEE	79.0	77.0	80.0	79.0	315.0	105.000000
15	15	1220135	PRATHAP	19990125	MALE	KANCHIPURAM	86.0	84.0	90.0	86.0	0.0	0.000000
16	16	1220136	PRATHAP	20000921	MALE	KANCHIPURAM	86.0	84.0	90.0	86.0	346.0	115.333333
17	17	1220137	RAGHU	20001109	MALE	POONAMALEE	67.0	64.0	70.0	81.0	201.0	67.000000
18	18	1220138	RATHI	20001121	FEMALE	KANCHIPURAM	81.0	86.0	90.0	81.0	338.0	112.666667
19	19	1220139	SARVESH	19990305	MALE	THANDALAM	84.0	87.0	80.0	84.0	301.0	0.000000
20	20	1220140	SANTHOSH	20001002	MALE	KANCHIPURAM	76.0	69.0	80.0	76.0	301.0	100.333333

df.fillna({'NAME':'SRI','GENDER':'MALE','ADDRESS':'CHITHUR','M1':90,'M2':90,'M3':89,'M4':87})

	SNO	REGNO	NAME	DOB	GENDER	ADDRESS	M1	M2	МЗ	M4	TOTAL	AVG
0	1	1220121	ARUN	2000-02- 10	MALE	THANDALAM	82.0	81.0	90.0	87.0	NaN	NaN
1	2	1220122	BABU	1999-01- 25	MALE	KANCHIPURAM	56.0	61.0	80.0	56.0	253.0	84.333333
2	3	1220123	CHARAN	2000.09.21	MALE	THANDALAM	90.0	59.0	60.0	70.0	NaN	0.000000
3	4	1220124	DEVA	2000-11- 09	MALE	POONAMALEE	74.0	79.0	80.0	74.0	307.0	102.333333
4	5	1220125	ESTER	2000-11- 21	FEMALE	CHITHUR	92.0	95.0	96.0	92.0	375.0	125.000000
5	6	1220126	FARHANA	1999-03- 05	FEMALE	THANDALAM	91.0	88.0	90.0	91.0	360.0	120.000000
6	7	1220127	GANI	2000-10- 02	MALE	KANCHIPURAM	49.0	51.0	70.0	49.0	219.0	73.000000
7	7	1220127	GANI	2000-10- 02	MALE	KANCHIPURAM	49.0	51.0	70.0	49.0	219.0	73.000000
8	8	1220128	HEMA	1999-01- 25	FEMALE	POONAMALEE	95.0	96.0	90.0	95.0	376.0	125.333333
9	9	1220129	INDRA	2000.09.21	FEMALE	KANCHIPURAM	64.0	90.0	89.0	64.0	NaN	0.000000
10	10	1220130	JAHITH	2000-11- 09	MALE	THANDALAM	34.0	45.0	50.0	34.0	163.0	54.333333
11	11	1220131	KANI	2000-11- 21	FEMALE	CHITHUR	96.0	95.0	96.0	96.0	383.0	127.666667
12	12	1220132	LATHESSH	1999-03- 05	MALE	THANDALAM	90.0	68.0	70.0	70.0	208.0	69.333333
13	13	1220133	MANI	2000-10- 02	MALE	KANCHIPURAM	71.0	76.0	89.0	71.0	NaN	0.000000
14	14	1220134	NANI	20001109	MALE	POONAMALEE	79.0	77.0	80.0	79.0	315.0	105.000000
15	15	1220135	SRI	19990125	MALE	CHITHUR	90.0	90.0	89.0	87.0	0.0	0.000000
16	16	1220136	PRATHAP	20000921	MALE	KANCHIPURAM	86.0	84.0	90.0	86.0	346.0	115.333333
17	17	1220137	RAGHU	20001109	MALE	POONAMALEE	67.0	64.0	70.0	87.0	201.0	67.000000
18	18	1220138	RATHI	20001121	FEMALE	KANCHIPURAM	81.0	86.0	90.0	81.0	338.0	112.666667
19	19	1220139	SARVESH	19990305	MALE	THANDALAM	84.0	87.0	89.0	84.0	NaN	0.000000
20	20	1220140	SANTHOSH	20001002	MALE	KANCHIPURAM	76.0	69.0	80.0	76.0	301.0	100.333333

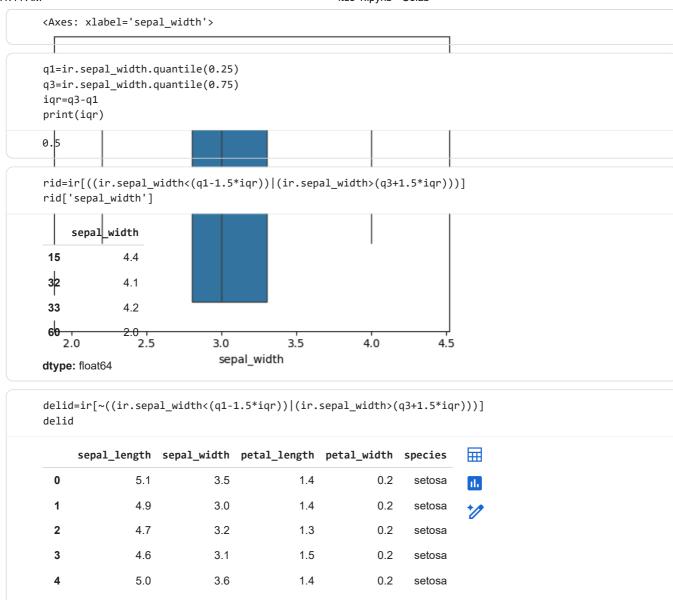
ir=pd.read_csv("iris.csv")

ir

	sepal_length	sepal_width	petal_length	petal_width	species	
0	5.1	3.5	1.4	0.2	setosa	ıl.
1	4.9	3.0	1.4	0.2	setosa	*/
2	4.7	3.2	1.3	0.2	setosa	
3	4.6	3.1	1.5	0.2	setosa	
4	5.0	3.6	1.4	0.2	setosa	
145	6.7	3.0	5.2	2.3	virginica	
146	6.3	2.5	5.0	1.9	virginica	
147	6.5	3.0	5.2	2.0	virginica	
148	6.2	3.4	5.4	2.3	virginica	
149	5.9	3.0	5.1	1.8	virginica	
150 rc	ows × 5 columns					

ir.describe() ${\tt sepal_length} {\tt \ sepal_width} {\tt \ petal_length} {\tt \ petal_width}$ \blacksquare 150.000000 150.000000 150.000000 count 150.000000 3.054000 3.758667 5.843333 1.198667 mean std 0.828066 0.433594 1.764420 0.763161 4.300000 2.000000 1.000000 0.100000 min 25% 5.100000 2.800000 1.600000 0.300000 50% 5.800000 3.000000 4.350000 1.300000 75% 6.400000 3.300000 5.100000 1.800000 7.900000 4.400000 6.900000 2.500000 max

import seaborn as sns
sns.boxplot(x='sepal_width',data=ir)



Double-click (or enter) to edit

146 rows × 5 columns

6.7

6.3

6.5

6.2

5.9

Generate code with delid

3.0

2.5

3.0

3.4

3.0

5.2

5.0

5.2

5.4

5.1

View recommended plots

2.3

1.9

2.0

2.3

1.8

virginica

virginica

virginica

virginica

virginica

New interactive sheet

145

146

147

148

149

Next steps:

```
0.10644536, 0.80065426, 2.42047502, 2.65187798, 0.10644536,
0.33784833, 1.03205722, 0.10644536, 0.1249576 , 0.80065426,
1.03205722, 1.74477836, 0.33784833, 1.03205722, 1.72626612,
0.1249576 , 1.72626612, 0.33784833, 1.49486315, 0.56925129,
0.33784833, 0.33784833, 0.10644536, 1.74477836, 0.58776353,
0.58776353, 0.56925129, 1.51337539, 0.35636057, 0.8191665,
2.43898725, 0.1249576 , 1.97618132, 0.35636057, 0.35636057,
0.10644536, 0.1249576 , 0.8191665 , 1.97618132, 1.28197243, 0.33784833, 0.58776353, 1.28197243, 0.58776353, 0.35636057,
0.1249576 , 0.58776353, 0.1249576 , 0.35636057, 1.05056946,
1.51337539, 1.51337539, 0.8191665, 0.8191665, 0.1249576,
 0.80065426, \ 0.10644536, \ 1.74477836, \ 0.1249576 \ , \ 1.28197243, 
1.05056946, 0.1249576 , 1.05056946, 1.74477836, 0.8191665 ,
0.1249576 , 0.35636057, 0.35636057, 1.28197243, 0.58776353,
0.56925129, 0.8191665 , 0.1249576 , 0.35636057, 0.1249576 ,
0.1249576 , 1.28197243, 0.35636057, 1.28197243, 1.26346019,
 0.33784833, \ 0.8191665 \ , \ 0.1249576 \ , \ 1.28197243, \ 0.58776353, 
0.33784833, 0.1249576 , 1.72626612, 1.05056946, 1.97618132,
 0.33784833, \ 0.58776353, \ 0.58776353, \ 0.8191665 \ , \ 0.56925129, 
0.33784833, 0.58776353, 0.1249576 , 0.58776353, 0.1249576 ,
0.58776353, 1.72626612, 0.58776353, 0.58776353, 1.05056946,
0.1249576 , 0.80065426, 0.10644536, 0.1249576 , 0.10644536,
0.10644536, 0.10644536, 0.8191665, 0.33784833, 0.56925129,
0.1249576 , 1.28197243, 0.1249576 , 0.80065426, 0.1249576 ])
```