working on data setfrom seaborn library

import seaborn as sns
df= sns.load_dataset("tips")
df

	total_bill	tip	sex	smoker	day	time	size	1
0	16.99	1.01	Female	No	Sun	Dinner	2	
1	10.34	1.66	Male	No	Sun	Dinner	3	
2	21.01	3.50	Male	No	Sun	Dinner	3	
3	23.68	3.31	Male	No	Sun	Dinner	2	
4	24.59	3.61	Female	No	Sun	Dinner	4	
239	29.03	5.92	Male	No	Sat	Dinner	3	
240	27.18	2.00	Female	Yes	Sat	Dinner	2	
241	22.67	2.00	Male	Yes	Sat	Dinner	2	
242	17.82	1.75	Male	No	Sat	Dinner	2	
243	18.78	3.00	Female	No	Thur	Dinner	2	

244 rows × 7 columns

CHECKING INFORMATION ABOUT DATA

df.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 244 entries, 0 to 243
Data columns (total 7 columns):

#	Column	Non-Null Count	Dtype
0	total_bill	244 non-null	float64
1	tip	244 non-null	float64
2	sex	244 non-null	category
3	smoker	244 non-null	category
4	day	244 non-null	category
5	time	244 non-null	category
6	size	244 non-null	int64
1.0		(4) C7 (64(2)	

dtypes: category(4), float64(2), int64(1)

memory usage: 7.4 KB

CHECKING FIRST ENTRIES

df.head()

	total_bill	tip	sex	smoker	day	time	size	1
0	16.99	1.01	Female	No	Sun	Dinner	2	
1	10.34	1.66	Male	No	Sun	Dinner	3	
2	21.01	3.50	Male	No	Sun	Dinner	3	
3	23.68	3.31	Male	No	Sun	Dinner	2	
4	24.59	3.61	Female	No	Sun	Dinner	4	

CHECKING LAST ENTRIES

df.tail()

	total_bill	tip	sex	smoker	day	time	size
239	29.03	5.92	Male	No	Sat	Dinner	3
240	27.18	2.00	Female	Yes	Sat	Dinner	2
241	22.67	2.00	Male	Yes	Sat	Dinner	2
242	17.82	1.75	Male	No	Sat	Dinner	2
243	18.78	3.00	Female	No	Thur	Dinner	2

SUMMARY STATITICS

df.describe()

	total_bill	tip	size
count	244.000000	244.000000	244.000000
mean	19.785943	2.998279	2.569672
std	8.902412	1.383638	0.951100
min	3.070000	1.000000	1.000000
25%	13.347500	2.000000	2.000000
50%	17.795000	2.900000	2.000000
75%	24.127500	3.562500	3.000000
max	50.810000	10.000000	6.000000

CHECKING NO. OF ROWS AND COLUMNS

df.shape

(244, 7)

```
# ROWS
df.shape[0]
     244
# COLUMN
df.shape[1]
     7
### CHECKING COLUMNS NAMES
df.columns
     Index(['total_bill', 'tip', 'sex', 'smoker', 'day', 'time', 'size'], dtype='object')
### CHECKING ROWS HEADING
df.index
     RangeIndex(start=0, stop=244, step=1)
### REMOVING SPECIFIES COLUMNS
df1=df.drop(["day","sex"],axis=1)
df1
```

```
total_bill tip smoker
                                     time size
                                              2
       0
                16.99 1.01
                                No Dinner
### CHECKING MISSING VALUES
df.isnull().sum()
     total_bill
     tip
                   0
     sex
                   0
     smoker
     day
     time
     size
     dtype: int64
### CHECKING UNIQUEE VALUES
      243
                18 78 3 00
                               No Dinner
df.day.unique()
     ['Sun', 'Sat', 'Thur', 'Fri']
     Categories (4, object): ['Thur', 'Fri', 'Sat', 'Sun']
```

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