JUPYTER IS BEST FOR DATA ANALYSIS

Out[1]:		id	city	team1	team2	toss_winner	toss_decision	winner	win_by_runs	win_by_wickets
	0	1	Hyderabad	Sunrisers Hyderabad	Royal Challengers Bangalore	Royal Challengers Bangalore	field	Sunrisers Hyderabad	35	0
	1	2	Pune	Mumbai Indians	Rising Pune Supergiant	Rising Pune Supergiant	field	Rising Pune Supergiant	0	7
	2	3	Rajkot	Gujarat Lions	Kolkata Knight Riders	Kolkata Knight Riders	field	Kolkata Knight Riders	0	10
	3	4	Indore	Rising Pune Supergiant	Kings XI Punjab	Kings XI Punjab	field	Kings XI Punjab	0	6
	4	5	Bangalore	Royal Challengers Bangalore	Delhi Daredevils	Royal Challengers Bangalore	bat	Royal Challengers Bangalore	15	0
	5	6	Hyderabad	Gujarat Lions	Sunrisers Hyderabad	Sunrisers Hyderabad	field	Sunrisers Hyderabad	0	9
	6	7	Mumbai	Kolkata Knight Riders	Mumbai Indians	Mumbai Indians	field	Mumbai Indians	0	4
	7		Indore	Royal Challengers Bangalore	Kings XI Punjab	Royal Challengers Bangalore	bat	Kings XI Punjab	0	8
	8	9	Pune	Delhi Daredevils	Rising Pune Supergiant	Rising Pune Supergiant	field	Delhi Daredevils	97	0
9		10	Mumbai	Sunrisers Hyderabad	Mumbai Indians	Mumbai Indians	field	Mumbai Indians	0	4

Out[2]: (10, 9)

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 10 entries, 0 to 9
Data columns (total 9 columns):

dtypes: int64(3), object(6)
memory usage: 848.0+ bytes

Out[4]:		id	city	team1	team2	toss_winner	toss_decision	winner	win_by_runs	win_by_wickets
	0	1	Hyderabad	Sunrisers Hyderabad	Royal Challengers Bangalore	Royal Challengers Bangalore	field	Sunrisers Hyderabad	35	0
	1	2	Pune	Mumbai Indians	Rising Pune Supergiant	Rising Pune Supergiant	field	Rising Pune Supergiant	0	7
	2	3	Rajkot	Gujarat Lions	Kolkata Knight Riders	Kolkata Knight Riders	field	Kolkata Knight Riders	0	10
	3	4	Indore	Rising Pune Supergiant	Kings XI Punjab	Kings XI Punjab	field	Kings XI Punjab	0	6
	4	5	Bangalore	Royal Challengers Bangalore	Delhi Daredevils	Royal Challengers Bangalore	bat	Royal Challengers Bangalore	15	0

Out[5]: (5, 9)

In [6]: ► csv1.head(3) #3 rows from top

Out[6]:		id	city	team1	team2	toss_winner	toss_decision	winner	win_by_runs	win_by_wickets
	0	1	Hyderabad	Sunrisers Hyderabad	Royal Challengers Bangalore	Royal Challengers Bangalore	field	Sunrisers Hyderabad	35	0
	1	2	Pune	Mumbai Indians	Rising Pune Supergiant	Rising Pune Supergiant	field	Rising Pune Supergiant	0	7
	2	3	Rajkot	Gujarat Lions	Kolkata Knight Riders	Kolkata Knight Riders	field	Kolkata Knight Riders	0	10

In [7]: ► csv1.tail() #few rows from bottom

Out[7]:		id	city	team1	team2	toss_winner	toss_decision	winner	win_by_runs	win_by_wickets
	5	6	Hyderabad	Gujarat Lions	Sunrisers Hyderabad	Sunrisers Hyderabad	field	Sunrisers Hyderabad	0	9
	6	7	Mumbai	Kolkata Knight Riders	Mumbai Indians	Mumbai Indians	field	Mumbai Indians	0	4
	7	8	Indore	Royal Challengers Bangalore	Kings XI Punjab	Royal Challengers Bangalore	bat	Kings XI Punjab	0	8
	8	9	Pune	Delhi Daredevils	Rising Pune Supergiant	Rising Pune Supergiant	field	Delhi Daredevils	97	0
	9	10	Mumbai	Sunrisers Hyderabad	Mumbai Indians	Mumbai Indians	field	Mumbai Indians	0	4

In [8]: ⋈ csv1.tail(3) #3 rows from bottom

Out[8]:		id	city	team1	team2	toss_winner	toss_decision	winner	win_by_runs	win_by_wickets
	7	8	Indore	Royal Challengers Bangalore	Kings XI Punjab	Royal Challengers Bangalore	bat	Kings XI Punjab	0	8
	8	9	Pune	Delhi Daredevils	Rising Pune Supergiant	Rising Pune Supergiant	field	Delhi Daredevils	97	0
	9	10	Mumbai	Sunrisers Hyderabad	Mumbai Indians	Mumbai Indians	field	Mumbai Indians	0	4

```
Out[9]:
                          id win_by_runs win_by_wickets
                     10.00000
                                10.000000
                                               10.000000
               count
                      5 50000
                                14.700000
                                               4.800000
               mean
                      3.02765
                                31.087868
                                                3.823901
                 std
                      1.00000
                                 0.000000
                                               0.000000
                min
                25%
                      3.25000
                                 0.000000
                                                1.000000
                50%
                      5.50000
                                 0.000000
                                               5.000000
                75%
                      7.75000
                                11.250000
                                                7.750000
                max 10.00000
                                97.000000
                                               10.000000
In [10]: ► csv1['city'] #show a perticular column
    Out[10]: 0
                   Hyderabad
              1
                        Pune
              2
                       Rajkot
              3
                       Indore
              4
                   Bangalore
              5
                   Hyderabad
              6
                      Mumbai
              7
                       Indore
              8
                         Pune
              9
                      Mumbai
              Name: city, dtype: object
In [11]: ▶ csv1['city'][5] #show a perticular column with perticular row
    Out[11]: 'Hyderabad'
In [12]: ▶ csv1['city'][5]=0 #change a perticular column & perticular row's value with warning.original file wont be
              \verb|C:\Users\Asus\AppData\Local\Temp\ipykernel\_11592\569454076.py:1: SettingWithCopyWarning: \\
              A value is trying to be set on a copy of a slice from a DataFrame
```

In [9]: ► csv1.describe() # statistical values for numeric values column

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy (https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy)

csv1['city'][5]=0 #change a perticular column & perticular row's value with warning.original file wont be changed

Punjab

0

6

Bangalore

15

0

0

9

0

4

0

8

97

0

0

4

Supergiant

0

7

35

0

win_by_runs

win_by_wickets

Riders

0

10

csv1

In [13]:

Out[18]:		id	city team1		team2	toss_winner	toss_decision	winner	win_by_runs	win_by_wickets
	0	1	Hyderabad	Sunrisers Hyderabad	Royal Challengers Bangalore	Royal Challengers Bangalore	field	Sunrisers Hyderabad	35	0
	1	2	Pune	Mumbai Indians	Rising Pune Supergiant	Rising Pune Supergiant	field	Rising Pune Supergiant	0	7
	2	2 3 Rajk		Gujarat Lions	Kolkata Knight Riders	Kolkata Knight Riders	field	Kolkata Knight Riders	0	10
	3		Indore	Rising Pune Supergiant	Kings XI Punjab	Kings XI Punjab	field	Kings XI Punjab	0	6
	4	5	Bangalore	Royal Challengers Bangalore	Delhi Daredevils	Royal Challengers Bangalore	bat	Royal Challengers Bangalore	15	0

In [19]: ► csv1.sort_index(axis=0,ascending = False) #reverse order index axix=0 is row and axis=1 is column

Out[19]:		id	city	team1	team2	toss_winner	toss_decision	winner	win_by_runs	win_by_wickets
	9	10	Mumbai	Sunrisers Hyderabad	Mumbai Indians	Mumbai Indians	field	Mumbai Indians	0	4
	8	9	Pune	Delhi Daredevils	Rising Pune Supergiant	Rising Pune Supergiant	field	Delhi Daredevils	97	0
	7	8	Indore	Royal Challengers Bangalore	Kings XI Punjab	Royal Challengers Bangalore	bat	Kings XI Punjab	0	8
	6	7	Mumbai	Kolkata Knight Riders	Mumbai Indians	Mumbai Indians	field	Mumbai Indians	0	4
	5	6	0	Gujarat Lions	Sunrisers Hyderabad	Sunrisers Hyderabad	field	Sunrisers Hyderabad	0	9
	4	5	Bangalore	Royal Challengers Bangalore	Delhi Daredevils	Royal Challengers Bangalore	bat	Royal Challengers Bangalore	15	0
	3	4	Indore	Rising Pune Supergiant	Kings XI Punjab	Kings XI Punjab	field	Kings XI Punjab	0	6
	2	3	Rajkot	Gujarat Lions	Kolkata Knight Riders	Kolkata Knight Riders	field	Kolkata Knight Riders	0	10
	1	2	Pune	Mumbai Indians	Rising Pune Supergiant	Rising Pune Supergiant	field	Rising Pune Supergiant	0	7
	0	1	Hyderabad	Sunrisers Hyderabad	Royal Challengers Bangalore	Royal Challengers Bangalore	field	Sunrisers Hyderabad	35	0

In [20]: ► csv1.sort_index(axis=1,ascending = False) #reverse order column

Out[20]:		winner	win_by_wickets	win_by_runs	toss_winner	toss_decision	team2	team1	id	city
	0	Sunrisers Hyderabad	0	35	Royal Challengers Bangalore	field	Royal Challengers Bangalore	Sunrisers Hyderabad	1	Hyderabad
	1	Rising Pune Supergiant	7	0	Rising Pune Supergiant	field	Rising Pune Supergiant	Mumbai Indians	2	Pune
	2	Kolkata Knight Riders	10	0	Kolkata Knight Riders	field	Kolkata Knight Riders	Gujarat Lions	3	Rajkot
	3	Kings XI Punjab	6	0	Kings XI Punjab	field	Kings XI Punjab	Rising Pune Supergiant	4	Indore
	4	Royal Challengers Bangalore	0	15	Royal Challengers Bangalore	bat	Delhi Daredevils	Royal Challengers Bangalore	5	Bangalore
	5	Sunrisers Hyderabad	9	0	Sunrisers Hyderabad	field	Sunrisers Hyderabad	Gujarat Lions	6	0
	6	Mumbai Indians	4	0	Mumbai Indians	field	Mumbai Indians	Kolkata Knight Riders	7	Mumbai
	7	Kings XI Punjab	8	0	Royal Challengers Bangalore	bat	Kings XI Punjab	Royal Challengers Bangalore	8	Indore
	8	Delhi Daredevils	0	97	Rising Pune Supergiant	field	Rising Pune Supergiant	Delhi Daredevils	9	Pune
	9	Mumbai Indians	4	0	Mumbai Indians	field	Mumbai Indians	Sunrisers Hyderabad	10	Mumbai

#its a view mode so csv2 will basically point at csv1's memory location. #Any changes made in csv2 will be reflected in csv1 as well.

In [22]: ► csv2['city'][0]="prayagraj"

 $C: \label{local-Temp-ipykernel_11592-1436405055.py:1: SettingWithCopyWarning: A value is trying to be set on a copy of a slice from a DataFrame \\$

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy (https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy)
csv2['city'][0]="prayagraj"

Out[23]:	3]: <u>id</u>		city	team1	team2	toss_winner	toss_decision	winner	win_by_runs	win_by_wickets
	0	1	prayagraj	Sunrisers Hyderabad	Royal Challengers Bangalore	Royal Challengers Bangalore	field	Sunrisers Hyderabad	35	0
	1	2	Pune	Mumbai Indians	Rising Pune Supergiant	Rising Pune Supergiant	field	Rising Pune Supergiant	0	7
	2	3 Rajko		Gujarat Lions	Kolkata Knight Riders	Kolkata Knight Riders	field	Kolkata Knight Riders	0	10
	3 4		Indore	Rising Pune Supergiant	Kings XI Punjab	Kings XI Punjab	field	Kings XI Punjab	0	6
	4	5	Bangalore	Royal Challengers Bangalore	Delhi Daredevils	Royal Challengers Bangalore	bat	Royal Challengers Bangalore	15	0

Out[24]:		id	city	team1	team2	toss_winner	toss_decision	winner	win_by_runs	win_by_wickets
	0	1	prayagraj	Sunrisers Hyderabad	Royal Challengers Bangalore	Royal Challengers Bangalore	field	Sunrisers Hyderabad	35	0
	1	2	Pune	Mumbai Indians	Rising Pune Supergiant	Rising Pune Supergiant	field	Rising Pune Supergiant	0	7
	2	3	Rajkot	Gujarat Lions	Kolkata Knight Riders	Kolkata Knight Riders	field	Kolkata Knight Riders	0	10
	3	4	Indore	Rising Pune Supergiant	Kings XI Punjab	Kings XI Punjab	field	Kings XI Punjab	0	6
	4	5	Bangalore	Royal Challengers	Delhi Daredevils	Royal Challengers	bat	Royal Challengers	15	0

Bangalore

Bangalore

In [25]: N csv3=csv1.copy() # Its a copy mode in which a copy of csv1 will be copied in csv3 #and any changes made in csv3 will not be reflected in csv1

Bangalore

In [26]: Ŋ csv3['city'][1]='GreNo'

C:\Users\Asus\AppData\Local\Temp\ipykernel_11592\3909947299.py:1: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy (https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy)

csv3['city'][1]='GreNo'

In [27]: ► csv1.head() #no change in original file csv1

Out[27]:

	id	city	team1	team2	toss_winner	toss_decision	winner	win_by_runs	win_by_wickets
0	1	prayagraj	Sunrisers Hyderabad	Royal Challengers Bangalore	Royal Challengers Bangalore	field	Sunrisers Hyderabad	35	0
1	2	Pune	Mumbai Indians	Rising Pune Supergiant	Rising Pune Supergiant	field	Rising Pune Supergiant	0	7
2	3	Rajkot	Gujarat Lions	Kolkata Knight Riders	Kolkata Knight Riders	field	Kolkata Knight Riders	0	10
3	4	Indore	Rising Pune Supergiant	Kings XI Punjab	Kings XI Punjab	field	Kings XI Punjab	0	6
4	5	Bangalore	Royal Challengers Bangalore	Delhi Daredevils	Royal Challengers Bangalore	bat	Royal Challengers Bangalore	15	0

In [28]: ► csv3.head() #only changes are made in csv3

Out[28]:

	id	city	team1	team2	toss_winner	toss_decision	winner	win_by_runs	win_by_wickets
0	1	prayagraj	Sunrisers Hyderabad	Royal Challengers Bangalore	Royal Challengers Bangalore	field	Sunrisers Hyderabad	35	0
1	2	GreNo	Mumbai Indians	Rising Pune Supergiant	Rising Pune Supergiant	field	Rising Pune Supergiant	0	7
2	3	Rajkot	Gujarat Lions	Kolkata Knight Riders	Kolkata Knight Riders	field	Kolkata Knight Riders	0	10
3	4	Indore	Rising Pune Supergiant	Kings XI Punjab	Kings XI Punjab	field	Kings XI Punjab	0	6
4	5	Bangalore	Royal Challengers Bangalore	Delhi Daredevils	Royal Challengers Bangalore	bat	Royal Challengers Bangalore	15	0

In [29]: ► csv2.loc[3,'city']='nainital' #no error will show.

In [30]: ► csv2

Out[30]:

	id	city	team1	team2	toss_winner	toss_decision	winner	win_by_runs	win_by_wickets
0	1	prayagraj	Sunrisers Hyderabad	Royal Challengers Bangalore	Royal Challengers Bangalore	field	Sunrisers Hyderabad	35	0
1	2	Pune	Mumbai Indians	Rising Pune Supergiant	Rising Pune Supergiant	field	Rising Pune Supergiant	0	7
2	3	Rajkot	Gujarat Lions	Kolkata Knight Riders	Kolkata Knight Riders	field	Kolkata Knight Riders	0	10
3	4	nainital	Rising Pune Supergiant	Kings XI Punjab	Kings XI Punjab	field	Kings XI Punjab	0	6
4	5	Bangalore	Royal Challengers Bangalore	Delhi Daredevils	Royal Challengers Bangalore	bat	Royal Challengers Bangalore	15	0
5	6	0	Gujarat Lions	Sunrisers Hyderabad	Sunrisers Hyderabad	field	Sunrisers Hyderabad	0	9
6	7	Mumbai	Kolkata Knight Riders	Mumbai Indians	Mumbai Indians	field	Mumbai Indians	0	4
7	8	Indore	Royal Challengers Bangalore	Kings XI Punjab	Royal Challengers Bangalore	bat	Kings XI Punjab	0	8
8	9	Pune	Delhi Daredevils	Rising Pune Supergiant	Rising Pune Supergiant	field	Delhi Daredevils	97	0
9	10	Mumbai	Sunrisers Hyderabad	Mumbai Indians	Mumbai Indians	field	Mumbai Indians	0	4

In [31]: ► csv2[0]='pooja'

In [32]: ► csv2

Out[32]:

:		id	city	team1	team2	toss_winner	toss_decision	winner	win_by_runs	win_by_wickets	0
	0	1	prayagraj	Sunrisers Hyderabad	Royal Challengers Bangalore	Royal Challengers Bangalore	field	Sunrisers Hyderabad	35	0	pooja
	1	2	Pune	Mumbai Indians	Rising Pune Supergiant	Rising Pune Supergiant	field	Rising Pune Supergiant	0	7	pooja
	2	3	Rajkot	Gujarat Lions	Kolkata Knight Riders	Kolkata Knight Riders	field	Kolkata Knight Riders	0	10	pooja
	3	4	nainital	Rising Pune Supergiant	Kings XI Punjab	Kings XI Punjab	field	Kings XI Punjab	0	6	pooja
	4	5	Bangalore	Royal Challengers Bangalore	Delhi Daredevils	Royal Challengers Bangalore	bat	Royal Challengers Bangalore	15	0	pooja
	5	6	0	Gujarat Lions	Sunrisers Hyderabad	Sunrisers Hyderabad	field	Sunrisers Hyderabad	0	9	pooja
	6	7	Mumbai	Kolkata Knight Riders	Mumbai Indians	Mumbai Indians	field	Mumbai Indians	0	4	pooja
	7	8	Indore	Royal Challengers Bangalore	Kings XI Punjab	Royal Challengers Bangalore	bat	Kings XI Punjab	0	8	pooja
	8	9	Pune	Delhi Daredevils	Rising Pune Supergiant	Rising Pune Supergiant	field	Delhi Daredevils	97	0	pooja
	9	10	Mumbai	Sunrisers Hyderabad	Mumbai Indians	Mumbai Indians	field	Mumbai Indians	0	4	pooja

:		id	city	team1	team2	toss_winner	toss_decision	winner	win_by_runs	win_by_wickets	0
	0	1	prayagraj	Sunrisers Hyderabad	Royal Challengers Bangalore	Royal Challengers Bangalore	field	Sunrisers Hyderabad	35	0	pooja
	1	2	Pune	Mumbai Indians	Rising Pune Supergiant	Rising Pune Supergiant	field	Rising Pune Supergiant	0	7	pooja
	2	3	Rajkot	Gujarat Lions	Kolkata Knight Riders	Kolkata Knight Riders	field	Kolkata Knight Riders	0	10	pooja
	3	4	nainital	Rising Pune Supergiant	Kings XI Punjab	Kings XI Punjab	field	Kings XI Punjab	0	6	pooja
	4	5	Bangalore	Royal Challengers Bangalore	Delhi Daredevils	Royal Challengers Bangalore	bat	Royal Challengers Bangalore	15	0	pooja
	6	7	Mumbai	Kolkata Knight Riders	Mumbai Indians	Mumbai Indians	field	Mumbai Indians	0	4	pooja
	7	8	Indore	Royal Challengers Bangalore	Kings XI Punjab	Royal Challengers Bangalore	bat	Kings XI Punjab	0	8	pooja
	8	9	Pune	Delhi Daredevils	Rising Pune Supergiant	Rising Pune Supergiant	field	Delhi Daredevils	97	0	pooja
	9	10	Mumbai	Sunrisers Hyderabad	Mumbai Indians	Mumbai Indians	field	Mumbai Indians	0	4	pooja

In [34]: ► csv2.drop(0,axis=1) #dropped the column named 0.

C)u	էլ	3	4]	1

	id	city	team1	team2	toss_winner	toss_decision	winner	win_by_runs	win_by_wickets
0	1	prayagraj	Sunrisers Hyderabad	Royal Challengers Bangalore	Royal Challengers Bangalore	field	Sunrisers Hyderabad	35	0
1	2	Pune	Mumbai Indians	Rising Pune Supergiant	Rising Pune Supergiant	field	Rising Pune Supergiant	0	7
2	3	Rajkot	Gujarat Lions	Kolkata Knight Riders	Kolkata Knight Riders	field	Kolkata Knight Riders	0	10
3	4	nainital	Rising Pune Supergiant	Kings XI Punjab	Kings XI Punjab	field	Kings XI Punjab	0	6
4	5	Bangalore	Royal Challengers Bangalore	Delhi Daredevils	Royal Challengers Bangalore	bat	Royal Challengers Bangalore	15	0
5	6	0	Gujarat Lions	Sunrisers Hyderabad	Sunrisers Hyderabad	field	Sunrisers Hyderabad	0	9
6	7	Mumbai	Kolkata Knight Riders	Mumbai Indians	Mumbai Indians	field	Mumbai Indians	0	4
7	8	Indore	Royal Challengers Bangalore	Kings XI Punjab	Royal Challengers Bangalore	bat	Kings XI Punjab	0	8
8	9	Pune	Delhi Daredevils	Rising Pune Supergiant	Rising Pune Supergiant	field	Delhi Daredevils	97	0
9	10	Mumbai	Sunrisers Hyderabad	Mumbai Indians	Mumbai Indians	field	Mumbai Indians	0	4

In [35]: | csv2.loc[[3,4],['city','winner']]

Out[35]:

	city	winner
3	nainital	Kings XI Punjab

4 Bangalore Royal Challengers Bangalore

In	[36]: 🕨	csv	/2.l	nead()								
	Out[36]:		id	city	team1	team2	toss_winner	toss_decision	winner	win_by_runs	win_by_wickets	0
		0	1	prayagraj	Sunrisers Hyderabad	Royal Challengers Bangalore	Royal Challengers Bangalore	field	Sunrisers Hyderabad	35	0	pooja
		1	2	Pune	Mumbai Indians	Rising Pune Supergiant	Rising Pune Supergiant	field	Rising Pune Supergiant	0	7	pooja
		2	3	Rajkot	Gujarat Lions	Kolkata Knight Riders	Kolkata Knight Riders	field	Kolkata Knight Riders	0	10	pooja
		3	4	nainital	Rising Pune Supergiant	Kings XI Punjab	Kings XI Punjab	field	Kings XI Punjab	0	6	pooja
		4	5	Bangalore	Royal Challengers Bangalore	Delhi Daredevils	Royal Challengers Bangalore	bat	Royal Challengers Bangalore	15	0	pooja
In	[37]: M	csv	/2.	loc[:,['c	ity','winne	^']]						
	Out[37]:			city		winner						
		0	pr	ayagraj	Sunrisers H							
		1		Pune	Rising Pune S	Supergiant						
		2		Rajkot	Kolkata Kni	ght Riders						
		3		nainital	Kings	XI Punjab						
		4	Bai	ngalore Ro	yal Challengers I	Bangalore						
		5		0	Sunrisers H	lyderabad						
		6	N	Mumbai	Mumb	ai Indians						
		7		Indore	Kings	XI Punjab						
		8		Pune	Delhi [Daredevils						
		9	N	Mumbai	Mumb	ai Indians						
In	[38]:)	csv	/2.	loc[[3,4]	,:]							
	Out[38]:		id	city	team	1 team2	toss_winner	toss_decision	winner	win_by_runs	win_by_wickets	0
		3	4	nainital	Rising Pund Supergian		Kings XI Punjab	field	Kings XI Punjab	0	6	pooja
		4	5	Bangalore	Roya Challenger Bangalor	S Daradavile	Royal Challengers Bangalore	bat	Royal Challengers Bangalore	15	0	pooja
In	[39]: 🔰	csv	/2.	loc[(csv2	['toss_deci	sion'] =='fie	eld')]					
	Out[39]:		id	city	team1	team2	toss_winner	toss_decision	winner	win_by_runs	win_by_wickets	0
		0	1	prayagraj	Sunrisers Hyderabad	Royal Challengers Bangalore	Royal Challengers Bangalore	field	Sunrisers Hyderabad	35	0	pooja
		1	2	Pune	Mumbai Indians	Rising Pune Supergiant	Rising Pune Supergiant		Rising Pune Supergiant	0	7	pooja
		2	3	Rajkot	Gujarat Lions	Kolkata Knight Riders	Kolkata Knight Riders		Kolkata Knight Riders	0	10	pooja
		3	4	nainital	Rising Pune Supergiant	Kings XI Punjab	Kings XI Punjab	field	Kings XI Punjab	0	6	pooja
		5	6	0	Gujarat Lions	Sunrisers Hyderabad	Sunrisers Hyderabad		пуцегарац	0	9	pooja
		6	7	Mumbai	Kolkata Knight Riders	Mumbai Indians	Mumbai Indians		indians	0	4	pooja
		8	9	Pune	Delhi Daredevils	Rising Pune Supergiant	Rising Pune Supergiant		Daredeviis	97	0	pooja
		9	10	Mumbai	Sunrisers Hyderabad	Mumbai Indians	Mumbai Indians	field	Mumbai Indians	0	4	pooja

```
In [40]:
            M csv2.loc[(csv2['toss_decision'] =='field')& (csv2['city'] =='Mumbai' )]
    Out[40]:
                                                                                                                               win_by_wickets
                     id
                            city
                                             team1
                                                            team2
                                                                     toss_winner
                                                                                   toss_decision
                                                                                                        winner
                                                                                                                 win by runs
                                                                                                                                                    0
                                      Kolkata Knight
                                                           Mumbai
                                                                          Mumbai
                                                                                                        Mumbai
                        Mumbai
                                                                                                                            0
                  6
                     7
                                                                                             field
                                                                                                                                             4 pooja
                                             Riders
                                                           Indians
                                                                           Indians
                                                                                                         Indians
                                                          Mumbai
                                                                          Mumbai
                                                                                                        Mumbai
                                           Sunrisers
                     10
                        Mumbai
                                                                                             field
                                                                                                                            0
                                                                                                                                                pooja
                                                           Indians
                                                                           Indians
                                         Hyderabad
                                                                                                        Indians
In [41]:
             ▶ csv2.iloc[0,6] #show 0th row and 6th column value
    Out[41]: 'Sunrisers Hyderabad'
In [42]:
             csv2.iloc[[0,6],[2,5]]
    Out[42]:
                                  team1 toss decision
                     Sunrisers Hyderabad
                                                    field
                  6 Kolkata Knight Riders
                                                   field
In [43]:
             M csv2.head(3)
    Out[43]:
                    id
                             city
                                         team1
                                                         team2
                                                                     toss_winner
                                                                                  toss_decision
                                                                                                        winner
                                                                                                                win_by_runs
                                                                                                                              win_by_wickets
                                                                                                                                                    0
                                                          Royal
                                                                            Royal
                                       Sunrisers
                                                                                                      Sunrisers
                     1
                        prayagraj
                                                     Challengers
                                                                      Challengers
                                                                                             field
                                                                                                                           35
                                                                                                                                                pooja
                                     Hvderabad
                                                                                                     Hyderabad
                                                      Bangalore
                                                                        Bangalore
                                                                      Rising Pune
                                                     Rising Pune
                                                                                                    Rising Pune
                                        Mumbai
                     2
                            Pune
                                                                                             field
                                                                                                                            0
                                                                                                                                                pooja
                                        Indians
                                                      Supergiant
                                                                       Supergiant
                                                                                                     Supergiant
                                                   Kolkata Knight
                                                                    Kolkata Knight
                                                                                                        Kolkata
                           Rajkot Gujarat Lions
                  2
                     3
                                                                                                                            n
                                                                                                                                            10 pooja
                                                                                            field
                                                          Riders
                                                                           Riders
                                                                                                   Knight Riders
In [44]:
                csv2.drop([1]) #delete row 1
    Out[44]:
                     id
                                                                     toss_winner toss_decision
                                                                                                        winner
                                                                                                                win_by_runs win_by_wickets
                              city
                                           team1
                                                          team2
                                                                                                                                                    0
                                                           Royal
                                                                           Royal
                                         Sunrisers
                                                                                                      Sunrisers
                                                                      Challengers
                                                      Challengers
                                                                                                                           35
                  0
                                                                                            field
                                                                                                                                             0
                      1
                          prayagraj
                                                                                                                                                pooja
                                       Hyderabad
                                                                                                     Hyderabad
                                                       Bangalore
                                                                       Bangalore
                                                    Kolkata Knight
                                                                    Kolkata Knight
                                                                                                  Kolkata Knight
                  2
                      3
                                     Gujarat Lions
                                                                                                                            0
                                                                                                                                            10 pooja
                            Rajkot
                                                                                            field
                                                           Riders
                                                                           Riders
                                                                                                         Riders
                                       Rising Pune
                                                         Kings XI
                                                                         Kings XI
                                                                                                       Kings XI
                  3
                      4
                            nainital
                                                                                            field
                                                                                                                            0
                                                                                                                                                pooja
                                                                          Punjab
                                       Supergiant
                                                          Punjab
                                                                                                        Punjab
                                            Royal
                                                                           Royal
                                                                                                          Royal
                                                            Delhi
                      5
                         Bangalore
                                       Challengers
                                                                      Challengers
                                                                                             bat
                                                                                                    Challengers
                                                                                                                           15
                                                                                                                                             0
                                                                                                                                                pooja
                                                       Daredevils
                                        Bangalore
                                                                       Bangalore
                                                                                                      Bangalore
                                                        Sunrisers
                                                                        Sunrisers
                                                                                                      Sunrisers
                      6
                                 0
                                     Gujarat Lions
                                                                                                                            0
                                                                                            field
                                                                                                                                                pooja
                                                       Hyderabad
                                                                       Hyderabad
                                                                                                     Hyderabad
                                    Kolkata Knight
                                                         Mumbai
                                                                         Mumbai
                                                                                                        Mumbai
                      7
                           Mumbai
                                                                                            field
                                                                                                                            0
                                                                                                                                             4
                                                                                                                                                pooja
                                                          Indians
                                                                          Indians
                                                                                                        Indians
                                           Riders
                                                                           Royal
                                            Royal
                                                         Kings XI
                                                                                                       Kings XI
                                      Challengers
                                                                      Challengers
                      8
                                                                                                                            0
                            Indore
                                                                                             bat
                                                                                                                                             8
                                                                                                                                                pooja
                                                          Punjab
                                                                                                         Punjab
                                        Bangalore
                                                                       Bangalore
                                                      Rising Pune
                                                                      Rising Pune
                                             Delhi
                                                                                                          Delhi
                  8
                      9
                             Pune
                                                                                            field
                                                                                                                           97
                                                                                                                                             0
                                                                                                                                                pooja
                                        Daredevils
                                                       Supergiant
                                                                       Supergiant
                                                                                                      Daredevils
```

Sunrisers

Hvderabad

10

Mumbai

Mumbai

Indians

Mumbai

Indians

Mumbai

Indians

0

4 pooja

field

Out[45]:		id	city	team1	team2	toss_winner	toss_decision	winner	win_by_runs	win_by_wickets
	0	1	prayagraj	Sunrisers Hyderabad	Royal Challengers Bangalore	Royal Challengers Bangalore	field	Sunrisers Hyderabad	35	0
	1	2	Pune	Mumbai Indians	Rising Pune Supergiant	Rising Pune Supergiant	field	Rising Pune Supergiant	0	7
	2	3	Rajkot	Gujarat Lions	Kolkata Knight Riders	Kolkata Knight Riders	field	Kolkata Knight Riders	0	10
	3	4	nainital	Rising Pune Supergiant	Kings XI Punjab	Kings XI Punjab	field	Kings XI Punjab	0	6
	4	5	Bangalore	Royal Challengers Bangalore	Delhi Daredevils	Royal Challengers Bangalore	bat	Royal Challengers Bangalore	15	0
	5	6	0	Gujarat Lions	Sunrisers Hyderabad	Sunrisers Hyderabad	field	Sunrisers Hyderabad	0	9
	6	7	Mumbai	Kolkata Knight Riders	Mumbai Indians	Mumbai Indians	field	Mumbai Indians	0	4
	7	8	Indore	Royal Challengers Bangalore	Kings XI Punjab	Royal Challengers Bangalore	bat	Kings XI Punjab	0	8
	8	9	Pune	Delhi Daredevils	Rising Pune Supergiant	Rising Pune Supergiant	field	Delhi Daredevils	97	0
	9	10	Mumbai	Sunrisers Hyderabad	Mumbai Indians	Mumbai Indians	field	Mumbai Indians	0	4

In [46]: ▶ csv2 #column 0 is not deleted from original data

Out[46]:		id	city	team1	team2	toss_winner	toss_decision	winner	win_by_runs	win_by_wickets	0
	0	1	prayagraj	Sunrisers Hyderabad	Royal Challengers Bangalore	Royal Challengers Bangalore	field	Sunrisers Hyderabad	35	0	pooja
	1	2	Pune	Mumbai Indians	Rising Pune Supergiant	Rising Pune Supergiant	field	Rising Pune Supergiant	0	7	pooja
	2	3	Rajkot	Gujarat Lions	Kolkata Knight Riders	Kolkata Knight Riders	field	Kolkata Knight Riders	0	10	pooja
	3	4	nainital	Rising Pune Supergiant	Kings XI Punjab	Kings XI Punjab	field	Kings XI Punjab	0	6	pooja
	4	5	Bangalore	Royal Challengers Bangalore	Delhi Daredevils	Royal Challengers Bangalore	bat	Royal Challengers Bangalore	15	0	pooja
	5	6	0	Gujarat Lions	Sunrisers Hyderabad	Sunrisers Hyderabad	field	Sunrisers Hyderabad	0	9	pooja
	6	7	Mumbai	Kolkata Knight Riders	Mumbai Indians	Mumbai Indians	field	Mumbai Indians	0	4	pooja
	7	8	Indore	Royal Challengers Bangalore	Kings XI Punjab	Royal Challengers Bangalore	bat	Kings XI Punjab	0	8	pooja
	8	9	Pune	Delhi Daredevils	Rising Pune Supergiant	Rising Pune Supergiant	field	Delhi Daredevils	97	0	pooja
	9	10	Mumbai	Sunrisers Hyderabad	Mumbai Indians	Mumbai Indians	field	Mumbai Indians	0	4	pooja

In [47]: | #csv2=csv2.drop([0],axis=1) # column 0 get deleted permanently from original file. (1st method) csv2.drop([0],axis=1,inplace=True) # column 0 get deleted permanently from original file.(2nd method)

In [51]:

:		id	city	team1	team2	toss_winner	win_by_runs	win_by_wickets
	0	1	prayagraj	Sunrisers Hyderabad	Royal Challengers Bangalore	Royal Challengers Bangalore	35	0
	1	2	Pune	Mumbai Indians	Rising Pune Supergiant	Rising Pune Supergiant	0	7
	3	4	nainital	Rising Pune Supergiant	Kings XI Punjab	Kings XI Punjab	0	6
	5	6	0	Gujarat Lions	Sunrisers Hyderabad	Sunrisers Hyderabad	0	9
	6	7	Mumbai	Kolkata Knight Riders	Mumbai Indians	Mumbai Indians	0	4
	7	8	Indore	Royal Challengers Bangalore	Kings XI Punjab	Royal Challengers Bangalore	0	8
	8	9	Pune	Delhi Daredevils	Rising Pune Supergiant	Rising Pune Supergiant	97	0
	9	10	Mumbai	Sunrisers Hyderabad	Mumbai Indians	Mumbai Indians	0	4

In [52]: M csv2.head()

Out[52]:

:		id	city	team1	team2	toss_winner	win_by_runs	win_by_wickets
-	0	1	prayagraj	Sunrisers Hyderabad	Royal Challengers Bangalore	Royal Challengers Bangalore	35	0
	1	2	Pune	Mumbai Indians	Rising Pune Supergiant	Rising Pune Supergiant	0	7
	3	4	nainital	Rising Pune Supergiant	Kings XI Punjab	Kings XI Punjab	0	6
	5	6	0	Gujarat Lions	Sunrisers Hyderabad	Sunrisers Hyderabad	0	9
	6	7	Mumbai	Kolkata Knight Riders	Mumbai Indians	Mumbai Indians	0	4

csv2.reset_index() #to reset index but one column index is also there. In [53]: Out[53]: index id city team1 team2 toss winner win_by_runs win_by_wickets Royal Challengers Royal Challengers 0 0 0 35 1 prayagraj Sunrisers Hyderabad Bangalore Bangalore 1 1 2 Mumbai Indians Rising Pune Supergiant Rising Pune Supergiant 0 7 Pune 3 4 nainital Rising Pune Supergiant Kings XI Punjab Kings XI Punjab 0 6 3 5 6 0 **Gujarat Lions** Sunrisers Hyderabad Sunrisers Hyderabad 0 6 7 Mumbai Kolkata Knight Riders Mumbai Indians Mumbai Indians n Royal Challengers Royal Challengers 7 8 Kings XI Punjab Indore 0 8 Bangalore Bangalore Rising Pune Supergiant 8 9 Pune Delhi Daredevils Rising Pune Supergiant 97 0 7 9 10 Mumbai Sunrisers Hyderabad Mumbai Indians Mumbai Indians 0 csv2.reset_index(drop=True,inplace=True) #index column will be removed In [54]: In [55]: csv2.head(4) Out[55]: id city team1 team2 toss_winner win_by_runs win_by_wickets 0 1 Royal Challengers Bangalore Royal Challengers Bangalore 0 prayagraj Sunrisers Hyderabad 35 2 0 7 1 Mumbai Indians Rising Pune Supergiant Rising Pune Supergiant Pune 2 4 Rising Pune Supergiant Kings XI Punjab Kings XI Punjab 0 6 nainital 6 0 **Gujarat Lions** Sunrisers Hyderabad Sunrisers Hyderabad 9 3 0 csv2['win_by_runs']=None #make this column value as None In [56]: In [57]: M csv2 Out[57]: id city team1 team2 toss_winner win_by_runs win_by_wickets 0 1 Sunrisers Hyderabad Royal Challengers Bangalore Royal Challengers Bangalore 0 prayagraj None 1 2 Pune Mumbai Indians Rising Pune Supergiant Rising Pune Supergiant None 7 Kings XI Punjab 2 4 nainital Rising Pune Supergiant Kings XI Punjab 6 None 3 6 0 **Gujarat Lions** Sunrisers Hyderabad Sunrisers Hyderabad None 9 7 Mumbai Kolkata Knight Riders Mumbai Indians Mumbai Indians None 8 Royal Challengers Bangalore Kings XI Punjab Royal Challengers Bangalore Indore None 8 6 q Pune Delhi Daredevils Rising Pune Supergiant Rising Pune Supergiant None 0 Mumbai Indians 10 Mumbai Sunrisers Hyderabad Mumbai Indians None 4 csv2.isnull() #return True for Null/None values rest will be False Out[58]: id city team1 team2 toss_winner win_by_runs win_by_wickets False False False 0 False False False True False False False True False False False False True False False False False False False False False False True False False False False False False True False False False False False False False True

False

False

False

False

False

False

False

False

False

True

True

False

False

```
In [59]: M csv2['win_by_runs'].isnull() #return True for Null/None values
    Out[59]: 0
                    True
                    True
              2
                    True
              3
                    True
              4
                    True
              5
                    True
              6
                    True
              7
                    True
              Name: win_by_runs, dtype: bool
           ▶ csv2['win_by_runs']=99 #make this column value as 99
In [60]:
In [61]:
           csv2
    Out[61]:
                  id
                          city
                                                team1
                                                                        team2
                                                                                            toss_winner win_by_runs
                                                                                                                    win_by_wickets
               0
                                     Sunrisers Hyderabad
                                                       Royal Challengers Bangalore
                                                                               Royal Challengers Bangalore
                                                                                                                                0
                   1
                     prayagraj
                                                                                                                99
               1
                   2
                                         Mumbai Indians
                                                           Rising Pune Supergiant
                                                                                    Rising Pune Supergiant
                                                                                                                99
                         Pune
               2
                   4
                       nainital
                                   Rising Pune Supergiant
                                                                 Kings XI Punjab
                                                                                         Kings XI Punjab
                                                                                                                99
                                                                                                                                6
               3
                   6
                            0
                                                             Sunrisers Hyderabad
                                                                                     Sunrisers Hyderabad
                                                                                                                                9
                                           Gujarat Lions
                                                                                                                99
                   7
                       Mumbai
                                    Kolkata Knight Riders
                                                                 Mumbai Indians
                                                                                         Mumbai Indians
                                                                                                                99
                   8
                        Indore Royal Challengers Bangalore
                                                                 Kings XI Punjab Royal Challengers Bangalore
                                                                                                                99
                                                                                                                                8
                   9
                         Pune
                                         Delhi Daredevils
                                                           Rising Pune Supergiant
                                                                                    Rising Pune Supergiant
                                                                                                                99
                                     Sunrisers Hyderabad
                                                                 Mumbai Indians
                                                                                         Mumbai Indians
                  10
                      Mumbai
                                                                                                                99
           In [62]:
                                    "toy": [np.nan, 'Batmobile', 'Bullwhip'],
                                    "born": [pd.NaT, pd.Timestamp("1940-04-25"),
                                             pd.NaT]})
In [63]:
           ⋈ df
    Out[63]:
                      name
                                 toy
                                           born
               0
                      Alfred
                                           NaT
                                NaN
                    Batman Batmobile
                                     1940-04-25
               2 Catwoman
                             Bullwhip
                                           NaT
In [64]:
           ▶ df.dropna() #drop rows and column having values NA
    Out[64]:
                   name
               1 Batman Batmobile 1940-04-25
           ▶ df.dropna(how='all') #wont drop till all values of row or column is NA
In [65]:
    Out[65]:
                      name
                                           born
                                 toy
                      Alfred
                                NaN
                                           NaT
                    Batman Batmobile
                                     1940-04-25
               2 Catwoman
                             Bullwhip
                                           NaT
```

```
"toy": [np.nan, np.nan, np.nan],
                          "born": [pd.NaT, pd.Timestamp("1940-04-25"),
                                 pd.NaT]})
In [67]: ► df1
   Out[67]:
                name
                     toy
                            born
                Alfred NaN
                            NaT
               Batman NaN 1940-04-25
           2 Catwoman NaN
                            NaT
In [68]: | df1.dropna(how='all',axis=1)
   Out[68]:
                        born
                name
                         NaT
                Alfred
               Batman 1940-04-25
           2 Catwoman
                         NaT
Out[69]:
                name
                     toy
                            born
                Alfred NaN
                            NaT
           1
               Batman NaN 1940-04-25
           2 Catwoman NaN
                            NaT
"born": [pd.NaT, pd.Timestamp("1940-04-25"),
                                  pd.NaT]})
In [71]: ▶ df2
   Out[71]:
                name
                        toy
                               born
                 NaN
                        NaN
                                NaT
               Batman Batmobile 1940-04-25
           2 Catwoman
                     Bullwhip
                                NaT
Out[72]:
                name
                        toy
                               born
               Batman Batmobile
                           1940-04-25
           2 Catwoman
                     Bullwhip
                                NaT
In [73]: ► df2
   Out[73]:
                name
                        toy
                               born
           0
                 NaN
                        NaN
                                NaT
               Batman Batmobile 1940-04-25
           2 Catwoman
                     Bullwhip
                                NaT
```

```
"toy": [np.nan, 'Batmobile', 'Bullwhip'],
                               "born": [pd.NaT, pd.Timestamp("1940-04-25"),
                                       pd.NaT]})
In [75]:
         M df3
   Out[75]:
                 name
                          toy
                                   born
                Alfred
                                   NaT
             0
                          NaN
             1 Batman Batmobile 1940-04-25
                Alfred
                       Bullwhip
                                   NaT
In [76]: M df3.drop_duplicates(subset=['name']) #drop the row having duplicate value in column 'name'.Bydefault keep
   Out[76]:
                 name
                          tov
                                   born
                 Alfred
                                   NaT
             1 Batman Batmobile 1940-04-25
In [77]: M df3.drop_duplicates(subset=['name'], keep='last') #droped duplicate value.Keeps second value
   Out[77]:
                 name
                          toy
                                   born
             1 Batman Batmobile 1940-04-25
                Alfred
                       Bullwhip
                                   NaT
In [78]: M df3.drop_duplicates(subset=['name'],keep=False) #droped all duplicate value from file.
   Out[78]:
                                   born
                 name
                          toy
             1 Batman Batmobile 1940-04-25
In [79]: ▶ df3.shape # no. of rows and columns
   Out[79]: (3, 3)
In [80]: ► df3.info()
            <class 'pandas.core.frame.DataFrame'>
            RangeIndex: 3 entries, 0 to 2
            Data columns (total 3 columns):
             # Column Non-Null Count Dtype
             0
                 name
                         3 non-null
                                        object
             1
                 toy
                         2 non-null
                                        object
                         1 non-null
                                        datetime64[ns]
                 born
            dtypes: datetime64[ns](1), object(2)
            memory usage: 200.0+ bytes
         da=pd.read_excel('C:\\Users\\Asus\\Downloads\\DUTY CHART MTE March 2024.xlsx',sheet_name='sheet1')
In [81]:
            #read excel file sheet wise
```

Out[82]:

	Sr.No	Emp ID	Emp Name	Designation	Dept.	School	2024-03- 14 00:00:00	2024-03- 15 00:00:00	2024-03- 16 00:00:00	2024-03- 19 00:00:00	2024-03- 21 00:00:00
0	1	GUSMAS201927445	Dr. Ambreen Fatima	Assistant Professor	Physiotherapy	SMAS	D	D	D	D	D
1	2	GUSMAS202332413	Dr. Chandan kumar	Professor	Physiotherapy	SMAS	NaN	D	D	NaN	NaN
2	3	GUSMAS202131425	Dr. Tanya Gujral	Assistant Professor	Physiotherapy	SMAS	D	NaN	NaN	D	D
3	4	GUSMAS202332538	Dr. Aksh chahal	Professor	Physiotherapy	SMAS	NaN	NaN	NaN	D	NaN
4	5	GUSMAS201827355	Dr. Shahiduz Zafar	Professor	Physiotherapy	SMAS	NaN	NaN	NaN	D	D
5	6	GUSMAS201827351	Dr. Sajjad Alam	Professor	Physiotherapy	SMAS	NaN	D	NaN	D	NaN
6	7	GUSMAS202332791	Dr. Nitesh	Assistant Professor	CVT	SMAS	D	NaN	NaN	NaN	NaN
7	8	GUSMAS202232232	Dr. Gaurav	Assistant Professor	CVT	SMAS	D	NaN	NaN	NaN	D
8	9	GUSMAS201927476	Ms. Awaneet Kaur	Assistant Professor	Pharmacy	SMAS	NaN	NaN	D	D	NaN
9	10	GUSMAS201927587	Ms. Neha Sharma	Assistant Professor	Pharmacy	SMAS	NaN	NaN	D	NaN	NaN
10	11	GUSMAS202031019	Ms. Sonali Sundram	Assistant Professor	Pharmacy	SMAS	NaN	NaN	D	NaN	NaN
11	12	GUSMAS202031036	Mr. Rakesh Sahu	Assistant Professor	Pharmacy	SMAS	D	NaN	NaN	D	NaN
12	13	GUSMAS202131070	Ms. Shikha Chaudhary	Assistant Professor	Pharmacy	SMAS	NaN	D	D	NaN	NaN
13	14	GUSMAS202131226	Ms. Pratibha Kumari	Assistant Professor	Pharmacy	SMAS	NaN	NaN	D	NaN	NaN
14	15	GUSMAS202131396	Mr. Bahadur Singh	Assistant Professor	Pharmacy	SMAS	D	D	D	NaN	NaN
15	16	GUSMAS202131394	Mr. Satendra Kumar	Assistant Professor	Pharmacy	SMAS	NaN	D	D	NaN	NaN
16	17	GUSMAS202231780	Ms. Manjeet Kaur	Assistant Professor	Pharmacy	SMAS	D	D	D	D	NaN
17	18	GUSMAS202131673	Ms. Deepika Sharma	Assistant Professor	Pharmacy	SMAS	NaN	D	D	D	NaN
18	19	GUSMAS202131704	Mr.Shriyansh Srivastava	Assistant Professor	Pharmacy	SMAS	D	NaN	NaN	NaN	NaN
19	20	GUSMAS202231850	Mr. Nishant Kumar Sharma	Assistant Professor	Pharmacy	SMAS	D	D	D	NaN	NaN

In [83]: #da['Emp Name']='pooja vajpayee'

In [84]: ▶ #da

In [85]: | #da.to_excel('C:\\Users\\Asus\\Downloads\\DUTY CHART MTE March 2024.xlsx',sheet_name='Sheet3')

In [86]: ► #da

In []: M