import pandas as pd

```
import numpy as np

data = pd.read_csv('students.csv')
data
```

₹		Roll Number	Name	Gender	Marks1	Marks2	Marks3
	0	1	Alice	F	85	90	78
	1	2	Bob	М	92	85	91
	2	3	Charlie	М	88	82	84
	3	4	David	M	76	79	80
	4	5	Eve	F	95	88	92
	5	6	Faythe	F	89	87	85
	6	7	Grace	F	77	80	79
	7	8	Heidi	F	83	84	88
	8	9	Ivan	M	91	93	90
	9	10	Judy	F	78	86	87

Next steps: Generate code with data View recommended plots

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q1. Create a new column with total marks

data['Total'] = data['Marks1']+ data['Marks2']+ data['Marks3']
data

₹		Roll Number	Name	Gender	Marks1	Marks2	Marks3	Total	Avg	
	0	1	Alice	F	85	90	78	253	84.333333	ılı
	1	2	Bob	М	92	85	91	268	89.333333	+/
	2	3	Charlie	М	88	82	84	254	84.666667	
	3	4	David	М	76	79	80	235	78.333333	
	4	5	Eve	F	95	88	92	275	91.666667	
	5	6	Faythe	F	89	87	85	261	87.000000	
	6	7	Grace	F	77	80	79	236	78.666667	
	7	8	Heidi	F	83	84	88	255	85.000000	
	8	9	Ivan	М	91	93	90	274	91.333333	
	9	10	Judy	F	78	86	87	251	83.666667	

Next steps: Generate code with data

View recommended plots

q2. Find the lowest marks in Marks1

data['Marks1'].min()

→ 76

v q3. Find the Highest marks in Marks2

data['Marks2'].max()

⋺▼ 93

→ q4. Find the average marks in Marks3

```
data['Marks3'].mean()
```

₹ 85.4

q5. Find student name with highest average

data['Avg']= data['Total']/3
data

_										
₹		Roll Number	Name	Gender	Marks1	Marks2	Marks3	Total	Avg	
	0	1	Alice	F	85	90	78	253	84.333333	ıl.
	1	2	Bob	М	92	85	91	268	89.333333	+/
	2	3	Charlie	М	88	82	84	254	84.666667	-
	3	4	David	М	76	79	80	235	78.333333	
	4	5	Eve	F	95	88	92	275	91.666667	
	5	6	Faythe	F	89	87	85	261	87.000000	
	6	7	Grace	F	77	80	79	236	78.666667	
	7	8	Heidi	F	83	84	88	255	85.000000	
	8	9	Ivan	М	91	93	90	274	91.333333	
	9	10	Judy	F	78	86	87	251	83.666667	

View recommended plots

data.sort_values(by='Avg', ascending=False)

Next steps:

Generate code with data

→ ▼		Roll Number	Name	Gender	Marks1	Marks2	Marks3	Total	Avg	
	4	5	Eve	F	95	88	92	275	91.666667	
	8	9	Ivan	М	91	93	90	274	91.333333	
	1	2	Bob	М	92	85	91	268	89.333333	
	5	6	Faythe	F	89	87	85	261	87.000000	
	7	8	Heidi	F	83	84	88	255	85.000000	
	2	3	Charlie	М	88	82	84	254	84.666667	
	0	1	Alice	F	85	90	78	253	84.333333	
	9	10	Judy	F	78	86	87	251	83.666667	
	6	7	Grace	F	77	80	79	236	78.666667	
	3	4	David	М	76	79	80	235	78.333333	

highest = data.loc[data['Avg'].idxmax()]
highest



y q6. Find how many students clear cutoff in Marks2 (<85)</p>

```
df = data[data['Marks2']<85]
df</pre>
```



data.describe()



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