import pandas as pd

from google.colab import files
uploaded=files.upload()

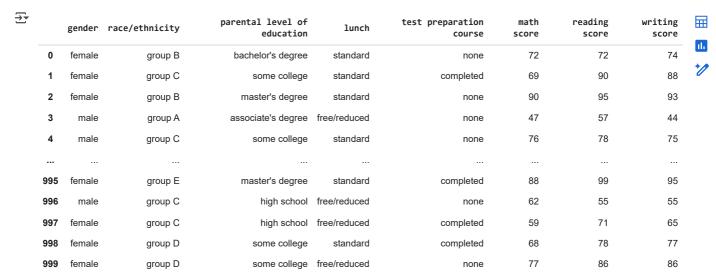


Choose Files StudentsPerformance.csv

• StudentsPerformance.csv(text/csv) - 72036 bytes, last modified: 4/16/2025 - 100% done Saving StudentsPerformance.csv to StudentsPerformance.csv

df=pd.read_csv('StudentsPerformance.csv')

df



1000 rows × 8 columns

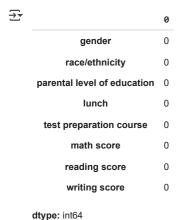
Next steps: (

Generate code with df

View recommended plots

New interactive sheet

df.isnull().sum()



df.dropna()

→ *		gender	race/ethnicity	parental level of education	lunch	test preparation course	math score	reading score	writing score	
	0	female	group B	bachelor's degree	standard	none	72	72	74	
	1	female	group C	some college	standard	completed	69	90	88	
	2	female	group B	master's degree	standard	none	90	95	93	
	3	male	group A	associate's degree	free/reduced	none	47	57	44	
	4	male	group C	some college	standard	none	76	78	75	
	995	female	group E	master's degree	standard	completed	88	99	95	
	996	male	group C	high school	free/reduced	none	62	55	55	
	997	female	group C	high school	free/reduced	completed	59	71	65	
	998	female	group D	some college	standard	completed	68	78	77	
	999	female	aroup D	some college	free/reduced	none	77	86	86	

1000 rows × 8 columns

df["math score"]=df["math score"].fillna(df["math score"].mean())

df

₹		gender	race/ethnicity	parental level of education	lunch	test preparation course	math score	reading score	writing score	
	0	female	group B	bachelor's degree	standard	none	72	72	74	•
	1	female	group C	some college	standard	completed	69	90	88	1
	2	female	group B	master's degree	standard	none	90	95	93	
	3	male	group A	associate's degree	free/reduced	none	47	57	44	
	4	male	group C	some college	standard	none	76	78	75	
							•••			
	995	female	group E	master's degree	standard	completed	88	99	95	
	996	male	group C	high school	free/reduced	none	62	55	55	
	997	female	group C	high school	free/reduced	completed	59	71	65	
	998	female	group D	some college	standard	completed	68	78	77	
	999	female	group D	some college	free/reduced	none	77	86	86	
1000 rows × 8 columns										

Next steps: Generate code with df View recommended plots New interactive sheet

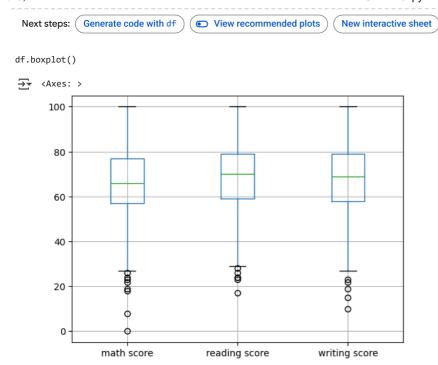
df["reading score"]=df["reading score"].fillna(df["reading score"].median())

df

~										
		gender	race/ethnicity	parental level of education	lunch	test preparation course	math score	reading score	writing score	
	0	female	group B	bachelor's degree	standard	none	72	72	74	•
	1	female	group C	some college	standard	completed	69	90	88	1
	2	female	group B	master's degree	standard	none	90	95	93	
	3	male	group A	associate's degree	free/reduced	none	47	57	44	
	4	male	group C	some college	standard	none	76	78	75	
	995	female	group E	master's degree	standard	completed	88	99	95	
	996	male	group C	high school	free/reduced	none	62	55	55	
	997	female	group C	high school	free/reduced	completed	59	71	65	
	998	female	group D	some college	standard	completed	68	78	77	
	999	female	group D	some college	free/reduced	none	77	86	86	

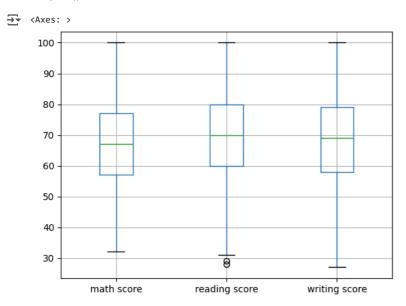
1000 rows × 8 columns

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newdf=df[df["math score"]>30]

newdf.boxplot()



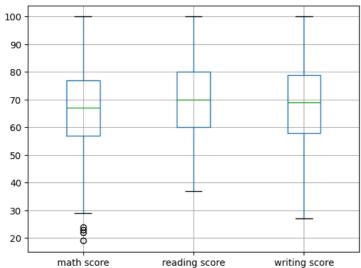
newdf=df[df["reading score"]>35]

TypeError: '>' not supported between instances of 'list' and 'int'

Next steps: Explain error

newdf.boxplot()





Q1=df["reading score"].quantile(0.25)
Q3=df["reading score"].quantile(0.75)
IQR=Q3-Q1
lower_bound=Q1-1.5 * IQR
upper_bound=Q3+1.5 * IQR