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sample_data

StudentsPerformance (1).csv

StudentsPerformance.csv

cleaned_Data2.csv

```python
import pandas as pd
import seaborn as sb
import matplotlib.pyplot as plt

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

# Load the data
data = pd.read_csv('StudentsPerformance.csv')
data
data.to_csv('cleaned_Data2.csv', index=False)

# Generate a direct download link
from google.colab import files
files.download('cleaned_Data2.csv')

"""histplot between input data and gender"""

plt.plot()
ax =sb.histplot(data, x = 'gender', color='black')

"""Based on the information provided above, we can conclude that the data is not skewed or biased in terms of gender, as it contains a nearly equal numb

plt.plot()
ax =sb.histplot(data, x = 'race/ethnicity', color='black')

plt.plot()
ax =sb.histplot(data, x = 'lunch', color='black')

plt.plot()
```

Disk 81.41 GB available

Connected to Python 3 Google Compute Engine backend

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sample_data

StudentsPerformance (1).csv

StudentsPerformance.csv

cleaned_Data2.csv

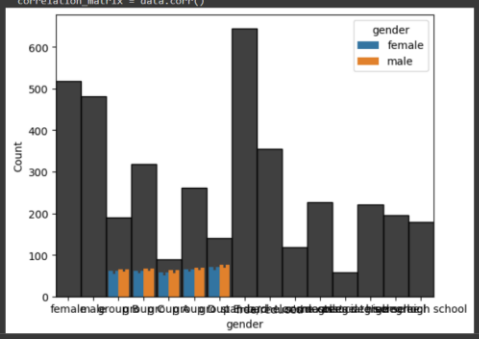
```python
sb.catplot(data=data,x= 'gender' ,y= 'reading score' ,kind= 'box' ,col= 'test preparation course' , whis=[0,100])
plt.show()

"""From the provided data, it's evident that students who have completed the course tend to achieve higher average scores in reading compared to student
```

StudentsP...rmance.csv

- StudentsPerformance.csv(text/csv) - 56020 bytes, last modified: 2/12/2024 - 100% done

```
Saving StudentsPerformance.csv to StudentsPerformance.csv
<ipython-input-4-d497d1c9d47e>:50: FutureWarning: The default value of numeric_only in DataFrame.corr is deprecated. In a future version, it will defa
  correlation_matrix = data.corr()
```



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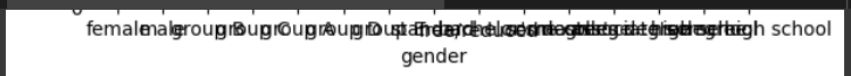
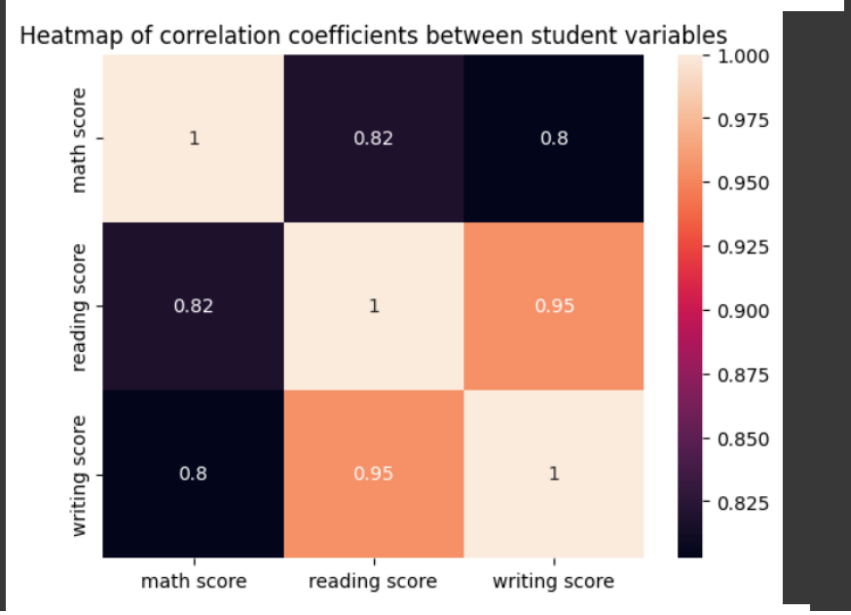
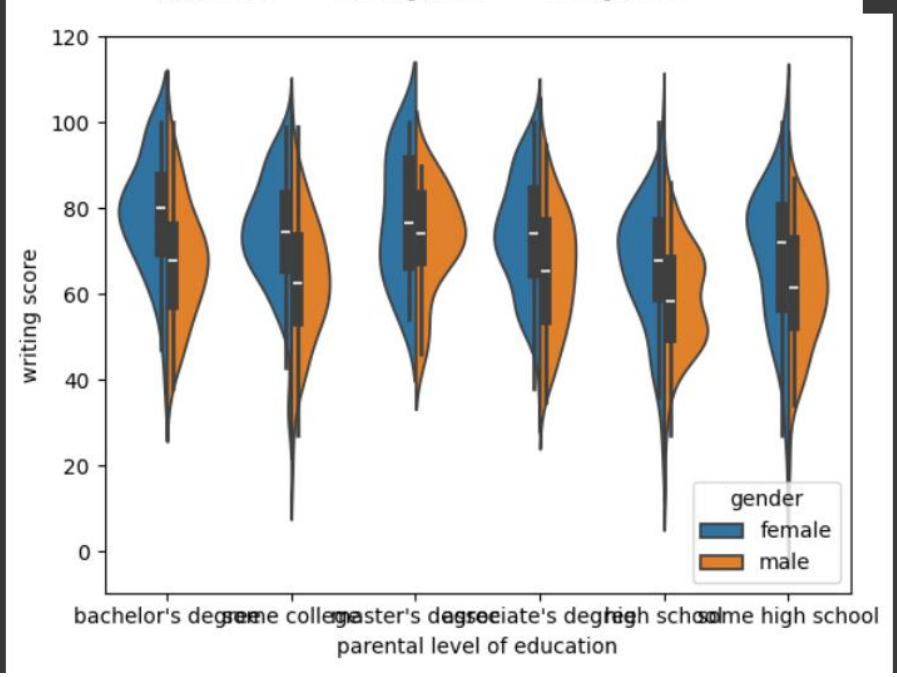
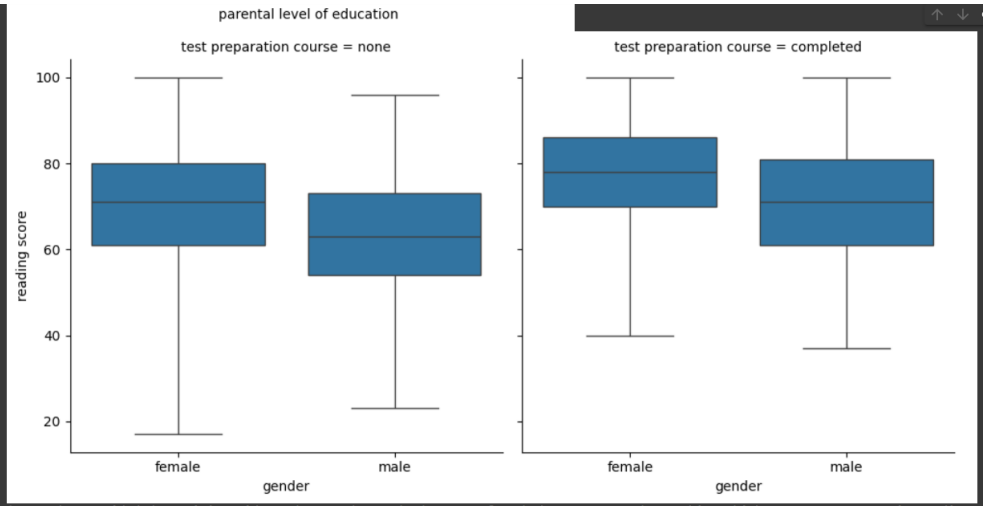
```
sb.catplot(data=data,x='gender',y='reading score',kind='box',col='test preparation course', whis=[0,1
plt.show()

"""From the provided data, it's evident that students who have completed the course tend to achieve h
```






```
"""From the provided data, it's evident that students who have completed the course tend
```





'From the provided data, it's evident that students who have completed the course tend to achieve higher average scores in reading compared to students who haven't completed the course or haven't taken any course, regardless of their gender. Moreover, it's noteworthy that, in general, female students tend to score higher in reading compared to their male counterparts. However, this trend is the opposite when it comes to math scores.'