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PDS Assignment-1

1. There are three stages in work reproducible they are :
2. Data collection: It is a collection of raw data from various sources.
3. Data Processing or Data Cleaning: I have cleaned the data of frailty and processed the data.
4. Data Analysis: Perform analysis on the data to draw the plots and visualize the data.

Above mentioned methods have been performed on the given data:

Raw Data :

Table

Description automatically generated with medium confidence

Data after adding BMI column:

Table

Description automatically generated

Data after cleaning and making Frailty row accessible to perform plots:

Table

Description automatically generated

Code for scatter plot graph:

Text, letter

Description automatically generated

Scatter plot graph:

Chart, scatter chart

Description automatically generated

Age between 45-50 has the highest grip among the given data.

Code for Line plot graph:

Text

Description automatically generated

Line Plot Graph:

Chart, line chart

Description automatically generated

1. There are three stages in work reproducible they are :

1. Data collection: It is a collection of raw data from StudentPerformance.csv.

2. Data Processing or Data Cleaning: I have cleaned the raw data and added the total and rank after processing.

3. Data Analysis: Perform analysis of the data to draw the plots so that they can be understood and visualized the data.

Reproducible Workflow:

Graphical user interface, text, application

Description automatically generated

Above mentioned methods have been performed on the given data:

Raw Data :

Table

Description automatically generated

Data after cleaning the raw data:

Table

Description automatically generated

Writing Score Vs Parent level of education

In the below Bar Graph the associate’s degree has the highest data and the master’s degree has the lowest data.

Total Vs Math

In the below scatter plot when the total score increases math score also increases.

Rank Vs Ethnicity

In the below Bar Graph Group C has the highest rank in the data and group A is lowest rank.

Gender Vs Total

In the below Bar Graph the average of male has the lowest total when compared to female.

Math Score Vs Reading Score :

In the below Scatter plot when the math score increases reading score also increases simultaneously.