# Question1

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application

Description automatically generated

# Question2

Graphical user interface, text

Description automatically generated

Table

Description automatically generated

Proof that null data replaced in data types int64 and float64

Text

Description automatically generated

Deleting categorical data

Graphical user interface, text

Description automatically generated

Table

Description automatically generated with medium confidence

Text

Description automatically generated with low confidence

Before reducing outliers

Chart, box and whisker chart

Description automatically generated

After reducing outliers :

Chart, box and whisker chart

Description automatically generated

# Question 3

Text

Description automatically generated

Table

Description automatically generated

Graphical user interface, text, application

Description automatically generated

Chart, box and whisker chart

Description automatically generated

# Question 4

Graphical user interface, text, application

Description automatically generated

Table

Description automatically generated

Text

Description automatically generated

Graphical user interface, text

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, application

Description automatically generated

Text, letter

Description automatically generated

Chart, scatter chart

Description automatically generatedChart

Description automatically generated

Chart

Description automatically generatedChart

Description automatically generated

Chart, scatter chart

Description automatically generatedChart, scatter chart

Description automatically generated

Chart, scatter chart

Description automatically generatedChart, scatter chart

Description automatically generated

Chart, scatter chart

Description automatically generated

# Question 5

Performed 3 of them, K means KNN and Linear Regression but for the comment of exam question:

The method I chose, which is K Nearest Neighbors (KNN) regression, is useful for this dataset because it is a non-parametric method that can handle both numerical and categorical data, K Nearest Neighbors (KNN) regression is a good choice for this dataset.

Graphical user interface, text, application

Description automatically generated

Table

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface

Description automatically generated with low confidence

# Question6

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application

Description automatically generated

Text

Description automatically generated

# Question7

Text

Description automatically generated

Table

Description automatically generated

Table

Description automatically generated

Output CSV

Text

Description automatically generated with medium confidence

# Question 8

Graphical user interface, text, application

Description automatically generated

Graphical user interface, application, table

Description automatically generated

Graphical user interface

Description automatically generated with medium confidence

Table

Description automatically generated

Graphical user interface, text, application

Description automatically generated

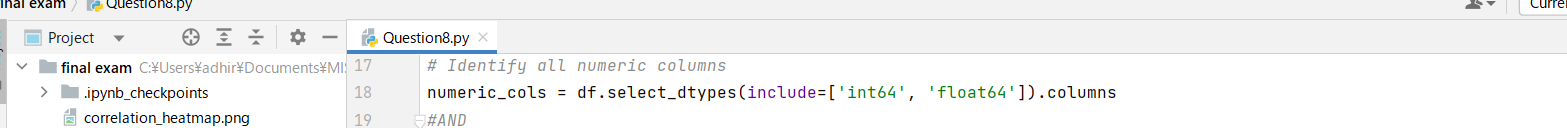
Graphical user interface, table

Description automatically generated

Chart

Description automatically generated

File created locally



# Question9

Graphical user interface, text, application

Description automatically generated

Chart, scatter chart

Description automatically generated

Chart, bar chart

Description automatically generated

Chart

Description automatically generated

Zoom next image

Chart

Description automatically generated

Text, application

Description automatically generated

Chart, histogram

Description automatically generated

Chart, pie chart

Description automatically generated

Graphical user interface, text, application

Description automatically generated

# Chart, histogram Description automatically generated

# Question 10

Graphical user interface, text, application

Description automatically generated

Text

Description automatically generated

Text

Description automatically generated

o/p

A picture containing text

Description automatically generated

Table

Description automatically generated