STASTICAL DESCRIPTION ON DATA

0.000000

49.000000

2.000000

0.000000

0.000000

0.000000

0.000000

0.000000

75% 1.000000 56.000000 3.000000 1.000000 0.000000 0.000000 1.000000 144.000000 89.875000 28.040000 83.000000 0.000000 0.000000

0.000000 234.000000 128.000000

82.000000

25.400000

75.000000

78.000000

0.000000

In [2]: #Aim: To Perform Stastical Description on Data #Exp no:3 #Name:Shrutika Vijay Ambekar #Sec:3rd B #Roll no:01 #Sub:ET-1 #Date:19/07/2024 In [4]: import pandas as pd import os In [8]: os.getcwd() Out[8]: 'C:\\Users\\asus' os.chdir("C:\\Users\\asus\\Desktop") In [12]: df=pd.read_csv("framingham.csv") In [14]: df.head() Out[14]: male age education currentSmoker cigsPerDay BPMeds prevalentStroke prevalentHyp diabetes totChol sysBP diaBP BMI heartRate glucose TenYearCHD 4.0 0.0 0 195.0 106.0 70.0 26.97 77.0 0 1 39 80.0 0 46 2.0 0 0.0 0.0 0 250.0 121.0 81.0 28.73 95.0 76.0 1.0 1 20.0 0 0 245.0 127.5 80.0 25.34 70.0 0 1 48 0.0 75.0 0 61 3.0 1 30.0 0.0 0 0 225.0 150.0 95.0 28.58 65.0 103.0 0 0 46 1 23.0 0 0 285.0 130.0 84.0 23.10 3.0 0.0 85.0 85.0 df.tail() BMI heartRate glucose TenYearCHD male age education currentSmoker cigsPerDay BPMeds prevalentStroke prevalentHyp diabetes totChol sysBP diaBP 86.0 4233 1 50 1.0 1.0 0.0 0 0 313.0 179.0 92.0 25.97 66.0 1 51 1 0.0 0 0 207.0 126.5 80.0 19.71 68.0 4234 3.0 43.0 65.0 4235 0 48 2.0 1 20.0 NaN 0 0 0 248.0 131.0 72.0 22.00 84.0 86.0 0 0 44 0.0 0 0 210.0 126.5 87.0 19.16 86.0 4237 0 52 2.0 0 0.0 0.0 0 0 269.0 133.5 83.0 21.47 0.08 107.0 0 In [18]: df.info() <class 'pandas.core.frame.DataFrame'> RangeIndex: 4238 entries, 0 to 4237 Data columns (total 16 columns): # Column Non-Null Count Dtype _____ ____ 4238 non-null int64 male 4238 non-null int64 age 4133 non-null float64 education currentSmoker 4238 non-null int64 4209 non-null float64 cigsPerDay BPMeds 4185 non-null float64 prevalentStroke 4238 non-null prevalentHyp 4238 non-null int64 diabetes 4238 non-null int64 totChol 4188 non-null float64 10 sysBP 4238 non-null float64 11 diaBP 4238 non-null float64 12 BMI 4219 non-null float64 13 heartRate 4237 non-null float64 14 glucose 3850 non-null float64 15 TenYearCHD 4238 non-null int64 dtypes: float64(9), int64(7) memory usage: 529.9 KB In [20]: df.shape Out[20]: (4238, 16) In [22]: df.size Out[22]: 67808 In [24]: df.tail(10) Out[24]: male age education currentSmoker cigsPerDay BPMeds prevalentStroke prevalentHyp diabetes totChol sysBP diaBP BMI heartRate glucose TenYearCHD 4228 0 50 0.0 190.0 130.0 43.67 260.0 0 51 NaN 4229 20.0 0 251.0 140.0 80.0 25.60 75.0 4230 0 56 1.0 3.0 0.0 0 0 268.0 170.0 102.0 22.89 57.0 NaN 1 58 0.0 0 187.0 141.0 81.0 24.96 81.0 4231 3.0 0 0.0 80.0 4232 1 68 1.0 0 0.0 0.0 0 0 176.0 168.0 97.0 23.14 79.0 4233 1 50 1.0 1 1.0 0.0 0 0 313.0 179.0 92.0 25.97 66.0 86.0 4234 1 51 3.0 43.0 0.0 0 0 207.0 126.5 80.0 19.71 65.0 68.0 0 86.0 4235 0 48 2.0 20.0 NaN 0 0 248.0 131.0 72.0 22.00 84.0 1.0 15.0 0.0 0 0 210.0 126.5 87.0 19.16 NaN 0 269.0 133.5 83.0 21.47 80.0 107.0 0 52 2.0 0.0 In [26]: df.ndim Out[26]: 2 In [28]: df.describe() male education currentSmoker cigsPerDay BPMeds prevalentStroke prevalentHyp diabetes totChol sysBP diaBP BMI heartRate glucose TenYearCHD count 4238.000000 4238.000000 4133.000000 4238.000000 4209.000000 4185.000000 4238.000000 4238.000000 4238.000000 4188.000000 4238.000000 4238.000000 4237.000000 3850.000000 4238.000000 0.025720 236.721585 0.429212 49.584946 1.978950 0.494101 9.003089 0.029630 0.005899 0.310524 132.352407 82.893464 25.802008 75.878924 81.966753 0.151958 0.495022 0.500024 11.920094 0.462763 44.590334 22.038097 11.910850 12.026596 0.359023 std 8.572160 1.019791 0.169584 0.076587 0.158316 4.080111 23.959998 32.000000 0.000000 0.000000 0.000000 44.000000 0.000000 0.000000 1.000000 0.000000 0.000000 0.000000 107.000000 83.500000 48.000000 15.540000 40.000000 0.000000 0.000000 42.000000 1.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 206.000000 117.000000 75.000000 23.070000 68.000000 71.000000

max 1.000000 70.000000 4.000000 1.000000 70.000000 1.000000 1.000000 1.000000 1.000000 295.000000 142.500000 56.800000 143.000000 394.000000 1.000000