Data manipulation

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In []: #Aim :- To perform operation of data manipulation on dataset

import pandas as pd

import os In [3]:

In [4]: os.getcwd() 'C:\\Users\\HP' Out[4]:

os.chdir("C:\\Users\\HP\\Desktop") In [5]:

In [6]: df=pd.read_csv("diabetes.csv")

In [8]: df.head(10)

Out[8]: Pregnancies Glucose BloodPressure SkinThickness Insulin BMI DiabetesPedigreeFunction Age Outcome 0 33.6 0.627 0 26.6 0.351 0 23.3 0.672 94 28.1 0.167 168 43.1 2.288 0 25.6 0.201 88 31.0 0.248 0.134 0 35.3 543 30.5 0.158 0.0 0.232 54

In [9]: df.tail()

Pregnancies Glucose BloodPressure SkinThickness Insulin BMI DiabetesPedigreeFunction Age Outcome Out[9]: 180 32.9 0.171 0 36.8 0.340 27 112 26.2 0.245 0 30.1 0.349 0 30.4 0.315 23

In [11]: df.shape

(768, 9) Out[11]:

In [13]: df.size

Out[13]:

In [15]: df.ndim

In [16]: df.columns

Index(['Pregnancies', 'Glucose', 'BloodPressure', 'SkinThickness', 'Insulin', 'BMI', 'DiabetesPedigreeFunction', 'Age', 'Outcome'], dtype='object')

In [17]: df.head

<bound method NDFrame.head of</pre> Out[17]:

Pregnancies Glucose BloodPressure SkinThickness Insulin BMI \ 0 33.6 0 26.6 0 23.3 94 28.1 168 43.1 . . . 180 32.9 0 36.8 112 26.2 0 30.1 0 30.4

DiabetesPedigreeFunction Age Outcome 0.627 0.351 0.672 0.167 2.288 0.171 0.340 0.245 0.349 0.315

[768 rows x 9 columns]>

In [19]: df.drop(labels="Age", axis=1)

Out[19]: Pregnancies Glucose BloodPressure SkinThickness Insulin BMI DiabetesPedigreeFunction Outcome 0 33.6 0.627 0 26.6 0.351 0 23.3 0.672 94 28.1 0.167 168 43.1 2.288 180 32.9 0.171 0.340 0 36.8 112 26.2 0.245 0 30.1 0.349 0 30.4 0.315

768 rows × 8 columns

In [21]: df.drop(labels=["Age", "Glucose"], axis=1) Out[21]:

Pregnancies BloodPressure SkinThickness Insulin BMI DiabetesPedigreeFunction Outcome 0 33.6 0.627 0.351 0 26.6 0 23.3 0.672 94 28.1 0.167 168 43.1 2.288 180 32.9 0.171 0.340 0 36.8 112 26.2 0.245 0 30.1 0.349 0 30.4 0.315

768 rows × 7 columns

In [22]: df.drop(labels=2,axis=0) Out[22]:

Pregnancies Glucose BloodPressure SkinThickness Insulin BMI DiabetesPedigreeFunction Age Outcome 0 33.6 0.627 50 0.351 31 0 26.6 0.167 21 94 28.1 168 43.1 2.288 33 0 25.6 0.201 30 180 32.9 0.171 63 0 36.8 0.340 27 112 26.2 0.245 30 0 30.1 0.349 0 30.4 0.315 23

767 rows × 9 columns

In [23]: df.drop(labels=[2,3],axis=0)

Pregnancies Glucose BloodPressure SkinThickness Insulin BMI DiabetesPedigreeFunction Age Outcome Out[23]: 0 33.6 0.627 50 0.351 31 0 26.6 168 43.1 2.288 33 0 25.6 0.201 30 88 31.0 0.248 26 180 32.9 0.171 63 0.340 27 0 36.8 112 26.2 0.245 30 0 30.1 0.349 47 0 30.4 0.315 23

766 rows × 9 columns