**TP1 : Pandas\_for\_Beginners\_Part\_1\_DataFrame\_Basics**

import pandas as pd

import matplotlib.pyplot as plt

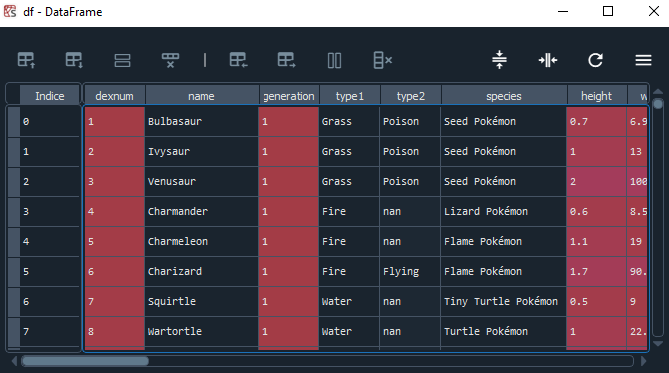
# Importing pandas

# Importing mathplotlib for visualization

Entrée:

df

Sortie:

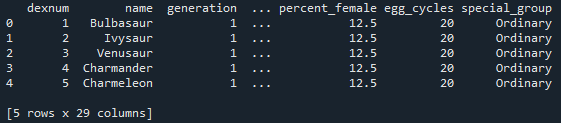


entrée

df.head()

Sortie:

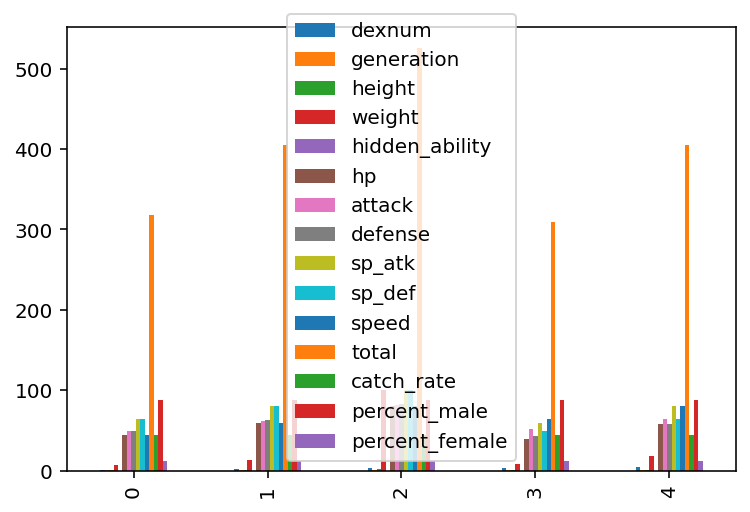
Le 5 premières lignes



Entrée

df.head().plot.bar()

Sortie:

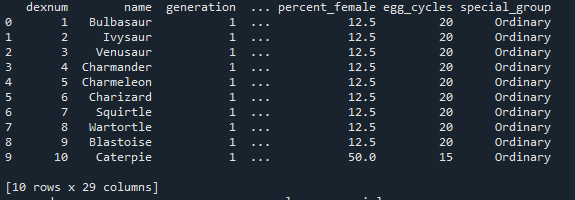


Entrée

print(df.head(10))

Sortie :

Les dix premières lignes

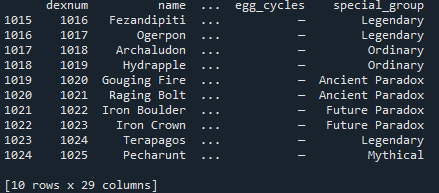


Entrée

df.tail(10)

Sortie

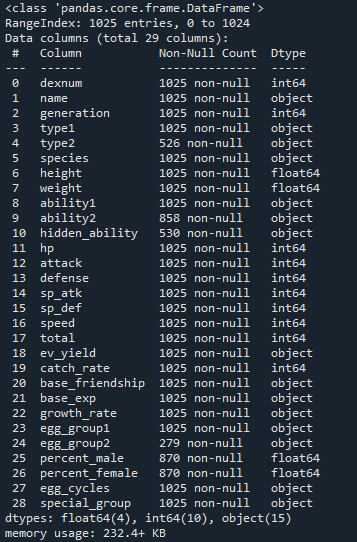
les dix dernières lignes



Entrée

df.info()

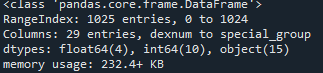
Sortie



Entrée

df.info(verbose=False)

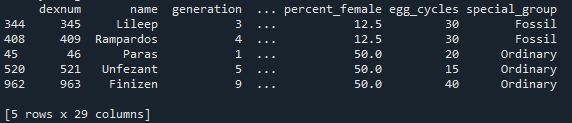
sortie



Entrée

print(df.sample(5))

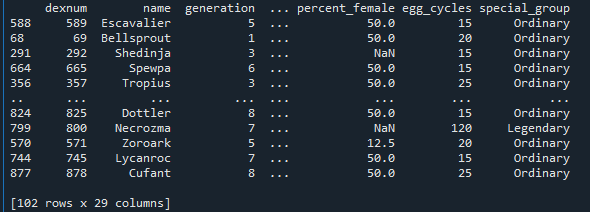
Sortie



Entrée

df.sample(frac = 0.1)

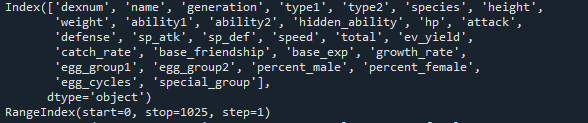
Sotie



Entrée

print(df.columns)

sortie



Entrée

print(df.infex)

Sortie

Index(['dexnum', 'name', 'generation', 'type1', 'type2', 'species', 'height',

'weight', 'ability1', 'ability2', 'hidden\_ability', 'hp', 'attack',

'defense', 'sp\_atk', 'sp\_def', 'speed', 'total', 'ev\_yield',

'catch\_rate', 'base\_friendship', 'base\_exp', 'growth\_rate',

'egg\_group1', 'egg\_group2', 'percent\_male', 'percent\_female',

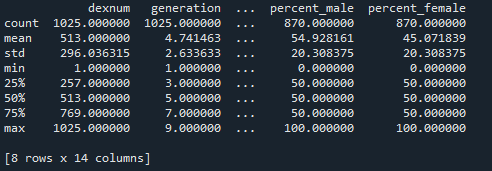
'egg\_cycles', 'special\_group'],

dtype='object')

RangeIndex(start=0, stop=1025, step=1)

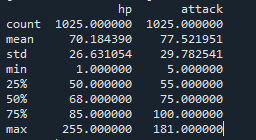
print(df.describe())

Sortie



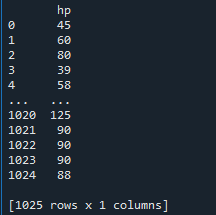
print(df[['hp', 'attack']].describe())

Sortie



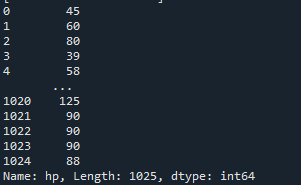
print(df[['hp']]) # Shows the DataFrame of "hp" column

Sotie



print(df['hp']) # Shows the DataFrame of "HP" column

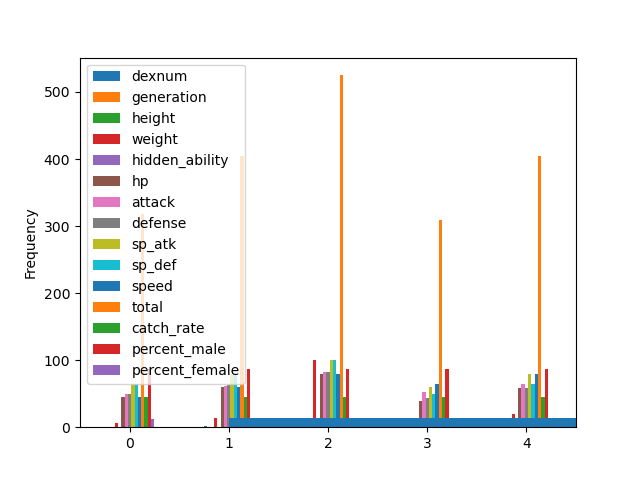
Sortie



df['hp'].plot.hist()

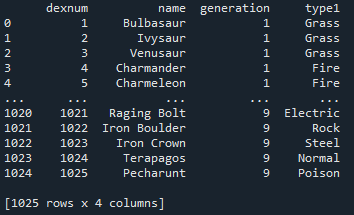
plt.show() # Shows the histogram of DataFrame in "HP" column

Sortie



print(df[df.columns[:4]])

Sortie



print(df.select\_dtypes('int')) # here we see rows only with filtering columns as intege

