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In [13]: #Cargar Librerias
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
```

```
In [11]: # Cargar la base de datos
import kagglehub

# Download latest version
path = kagglehub.dataset_download("uciml/pima-indians-diabetes-database")

print("Path to dataset files:", path)
```

Using Colab cache for faster access to the 'pima-indians-diabetes-database' dataset.

Path to dataset files: /kaggle/input/pima-indians-diabetes-database

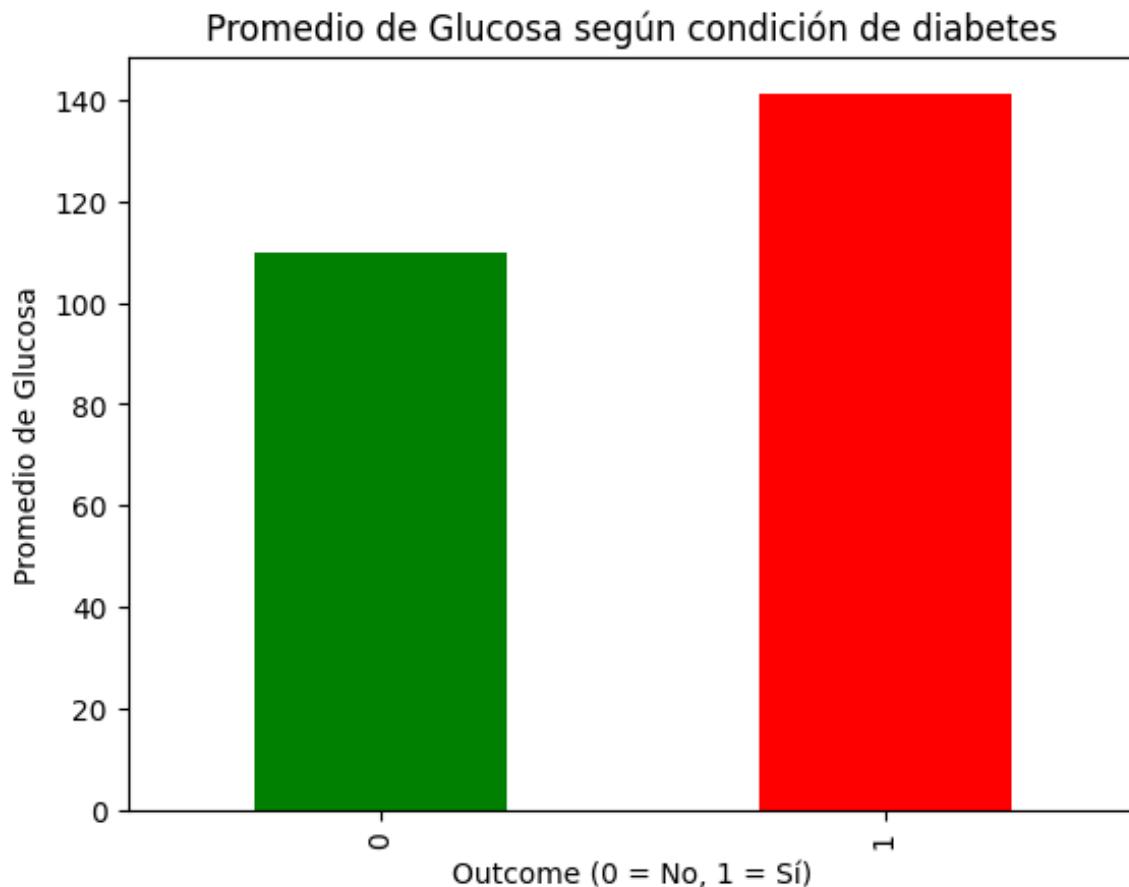
```
In [14]: # Crear un Dataframe del Archivo
df = pd.read_csv(f"{path}/diabetes.csv")
```

```
In [17]: plt.figure(figsize=(5,4))
df['Outcome'].value_counts().plot(kind='bar', color=['green', 'red'])
plt.title('Distribución de personas con y sin diabetes')
plt.xlabel('Outcome (0 = No, 1 = Sí)')
plt.ylabel('Cantidad de personas')
plt.show()
```



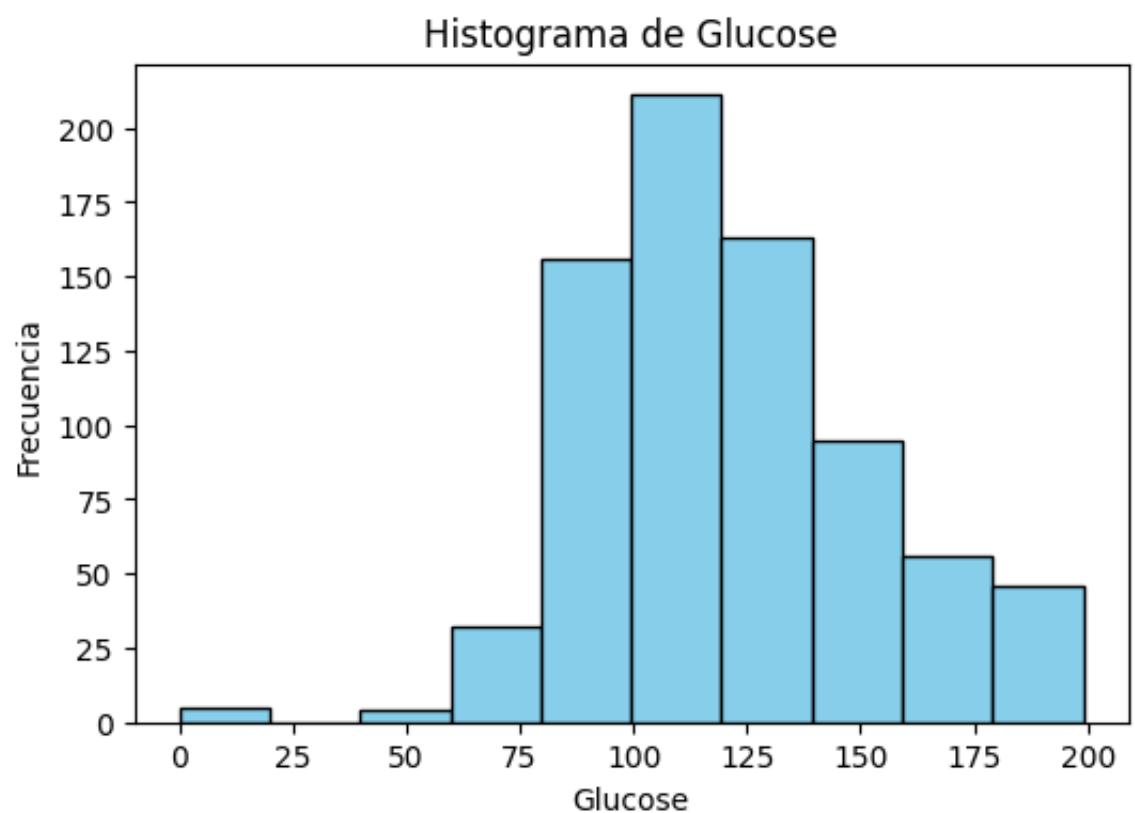
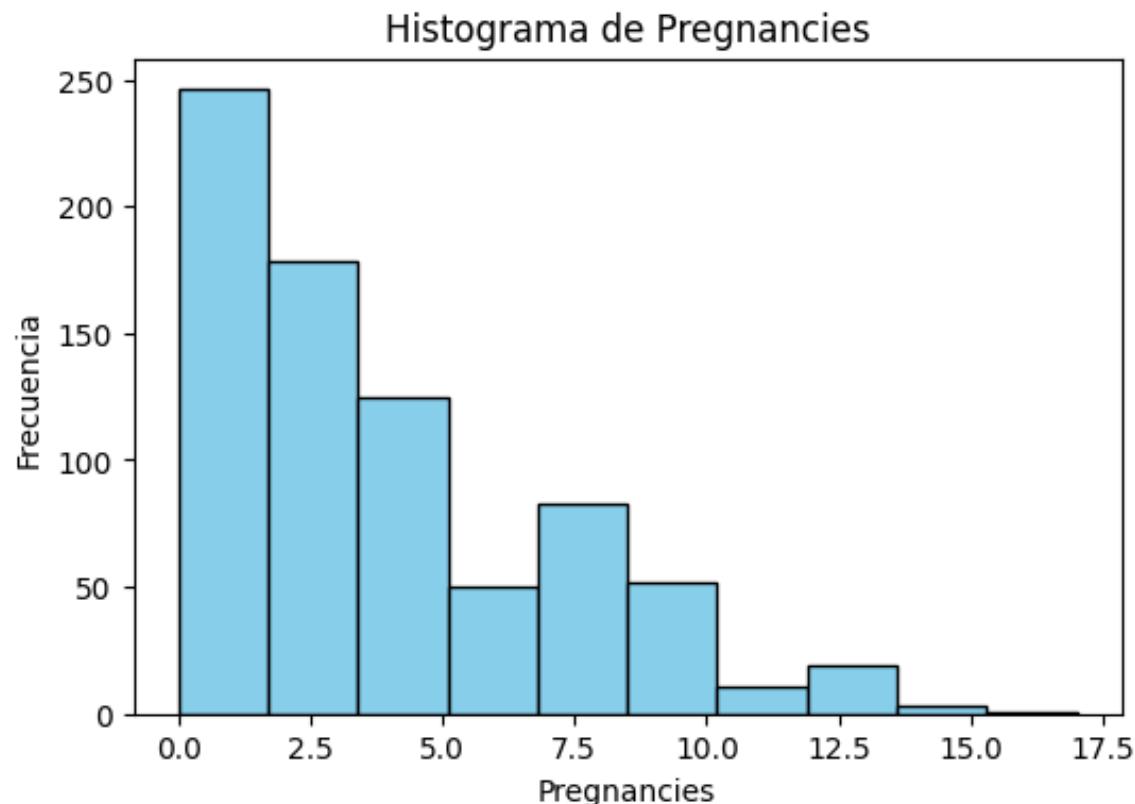
```
In [26]: df.groupby('Outcome')['Glucose'].mean().plot(kind='bar', color=['green', 'red'])
plt.title('Promedio de Glucosa según condición de diabetes')
plt.xlabel('Outcome (0 = No, 1 = Sí)')
```

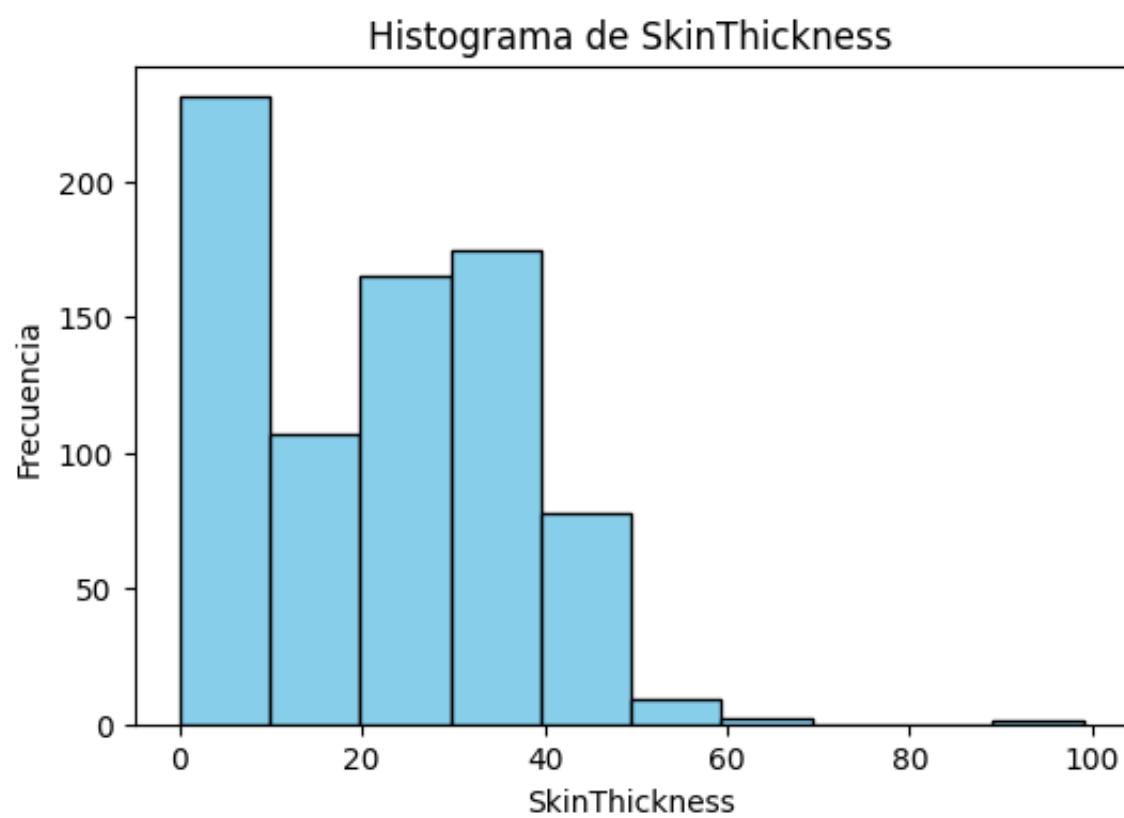
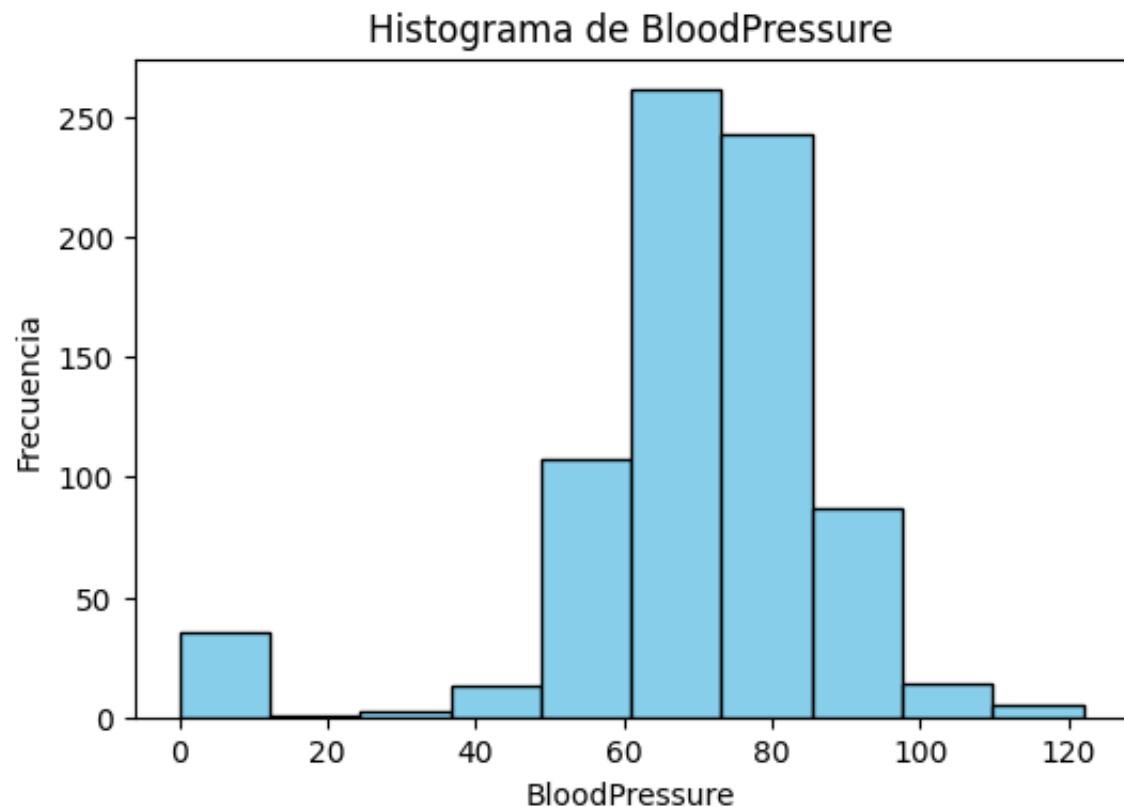
```
plt.ylabel('Promedio de Glucosa')
plt.show()
```

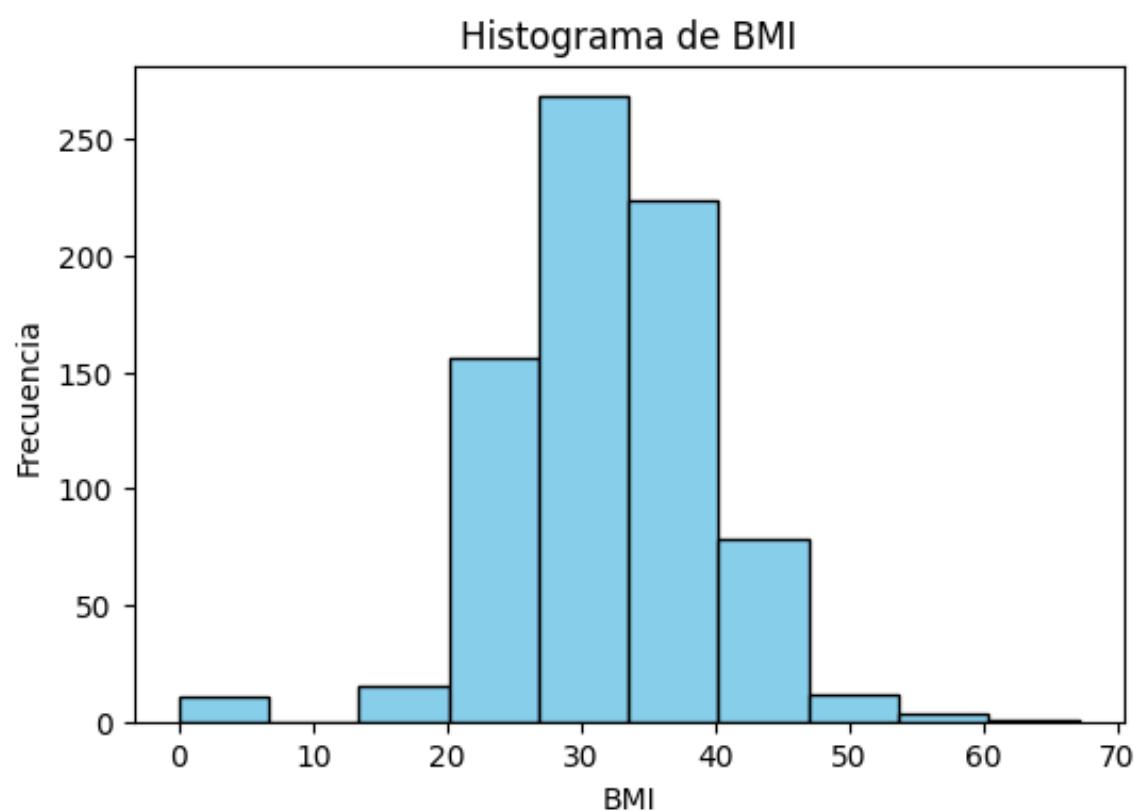
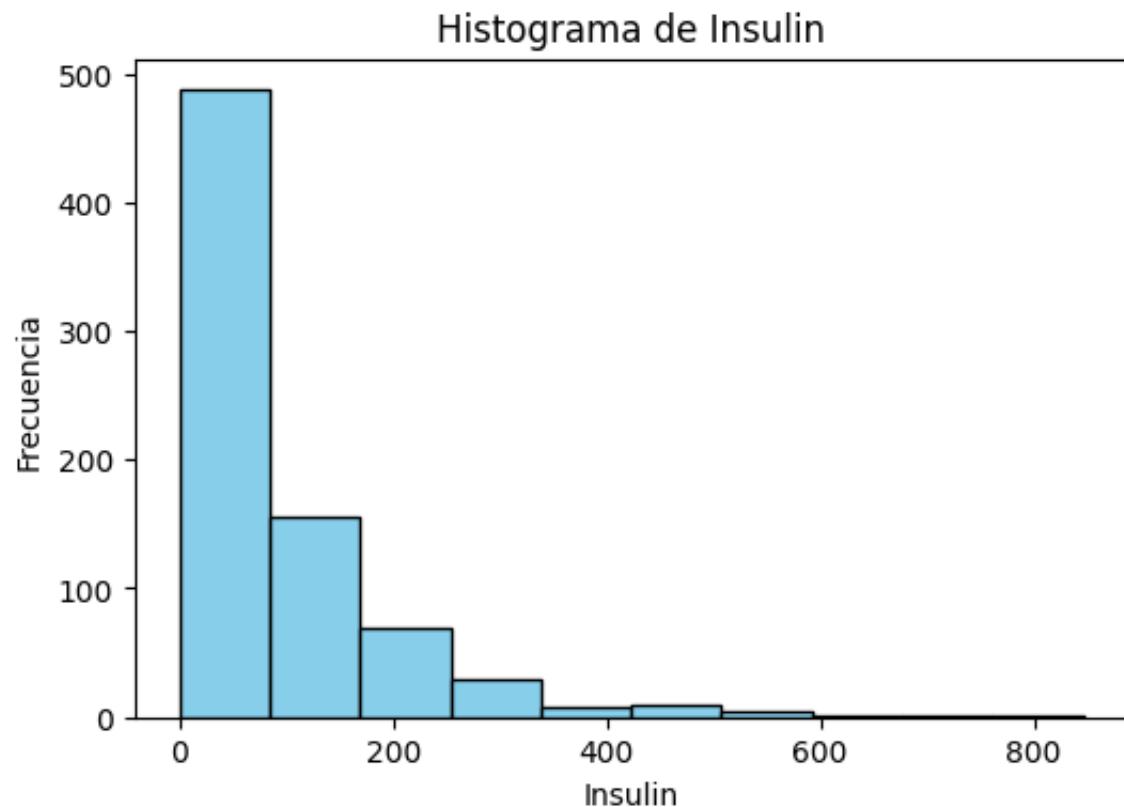


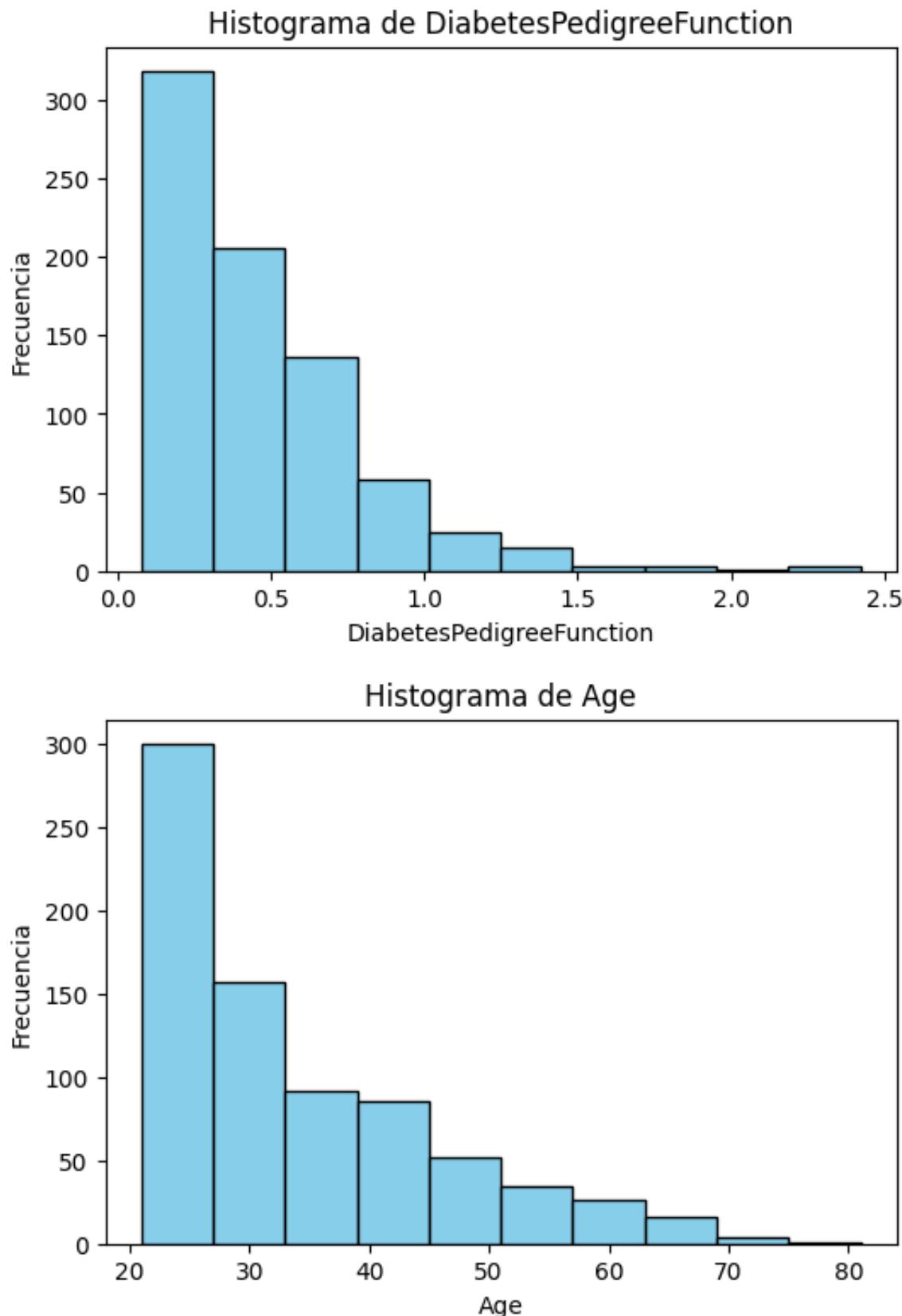
```
In [20]: num_cols = ['Pregnancies', 'Glucose', 'BloodPressure', 'SkinThickness',
                  'Insulin', 'BMI', 'DiabetesPedigreeFunction', 'Age']

for col in num_cols:
    plt.figure(figsize=(6,4))
    plt.hist(df[col].dropna(), bins=10, color='skyblue', edgecolor='black')
    plt.title(f'Histograma de {col}')
    plt.xlabel(col)
    plt.ylabel('Frecuencia')
    plt.show()
```









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In [21]: for col in num_cols:  
    plt.figure(figsize=(6,4))  
    plt.boxplot(df[col].dropna())  
    plt.title(f'Boxplot de {col}')  
    plt.ylabel(col)  
    plt.show()
```

