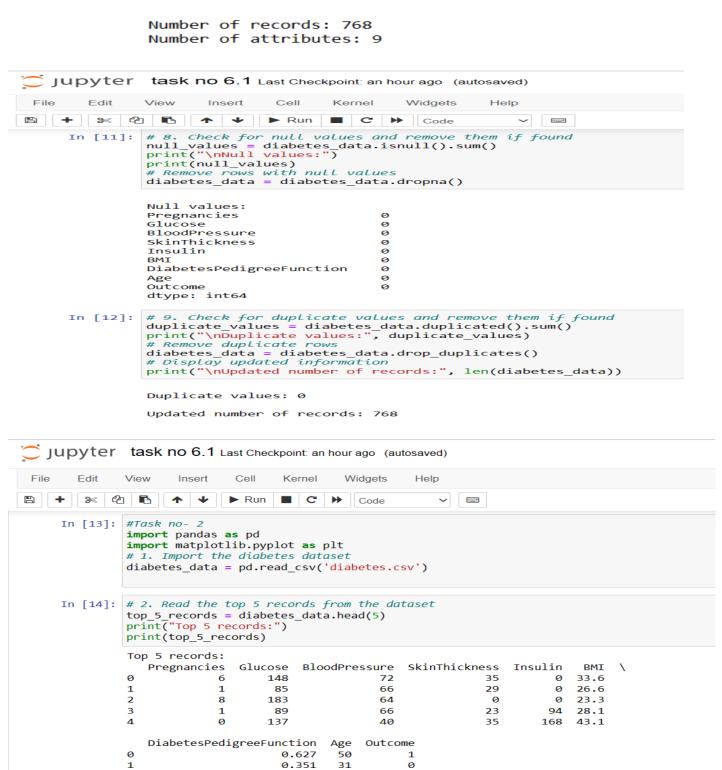


<class 'pandas.core.frame.DataFrame'> RangeIndex: 768 entries, 0 to 767 Data columns (total 9 columns): # Column Non-Null Count Dtype 0 Pregnancies 768 non-null int64 1 Glucose 768 non-null int64 2 BloodPressure 768 non-null int64 SkinThickness 3 768 non-null int64 4 Insulin 768 non-null int64 5 768 non-null float64 BMT 6 DiabetesPedigreeFunction 768 non-null float64 Age 768 non-null int64 int64 8 Outcome 768 non-null dtypes: float64(2), int64(7) memory usage: 54.1 KB Attribute information: None In [7]: # 6. Display the list of columns for the given dataset columns_list = diabetes_data.columns print("\nList of columns:") print(columns_list) List of columns:

In [8]: # 7. Display number of records and attributes
num_records, num_attributes = diabetes_data.shape
print("\nNumber of records:", num_records)
print("Number of attributes:", num_attributes)



0.672

0.167

2.288

32

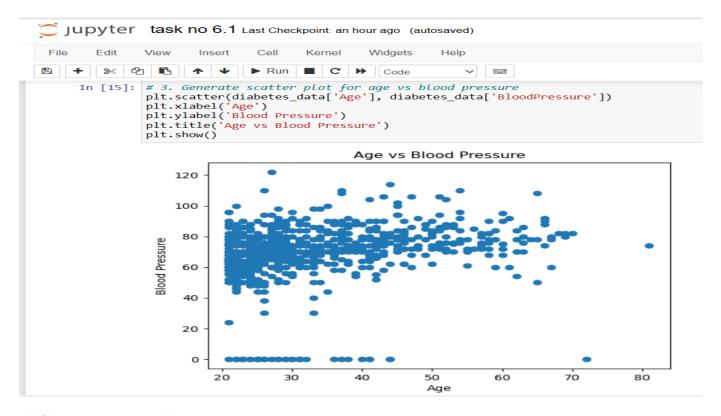
21

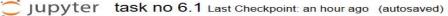
33

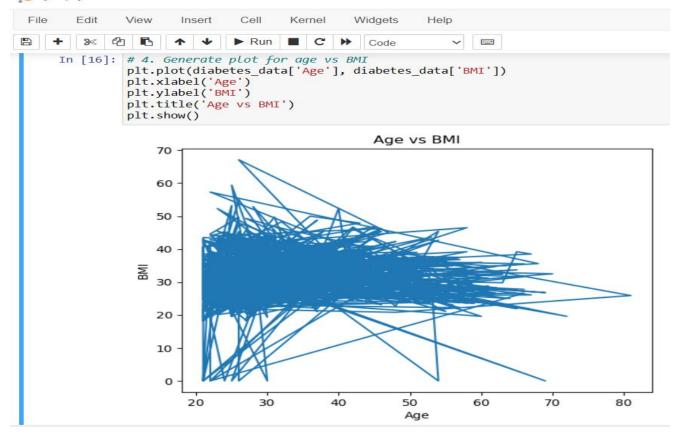
1

2

3

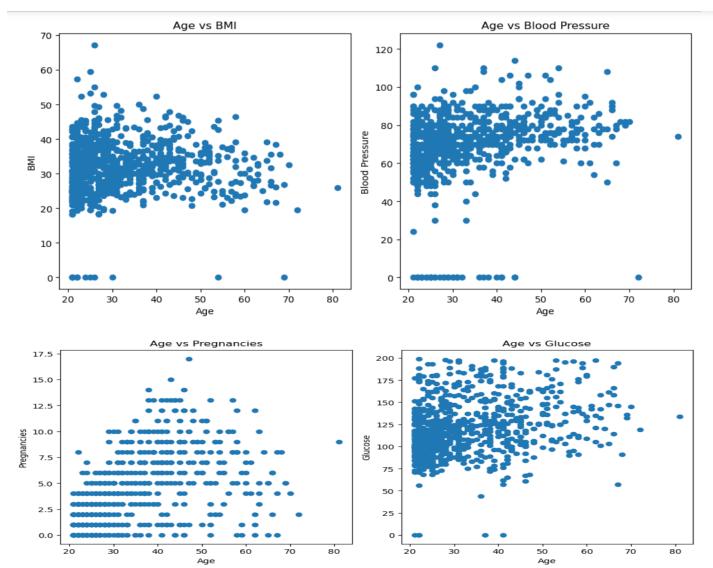


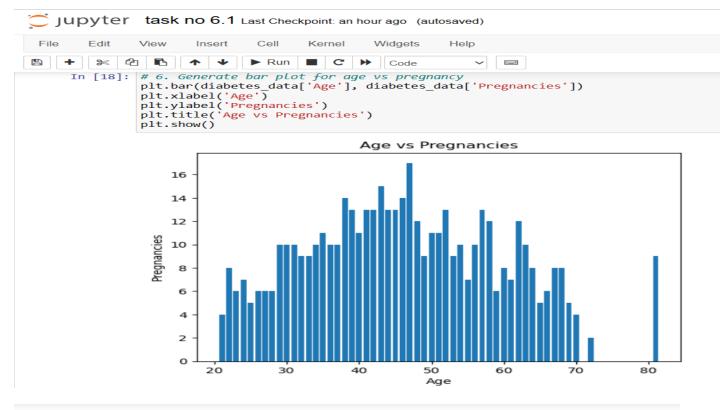




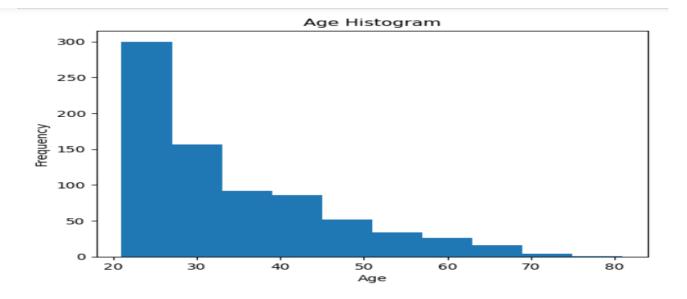
jupyter task no 6.1 Last Checkpoint: an hour ago (autosaved)

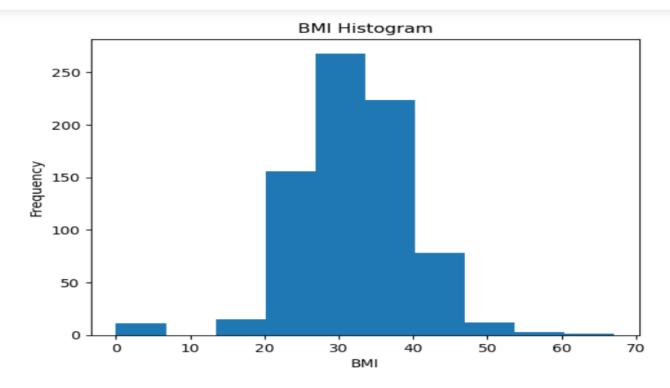
```
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                                                                                Code
                                                                                                           In [17]:
                                Generate 4 scatter plots using subplot
                         fig,
                                         = plt.subplots(2, 2, figsize=(10, 10))
                         axes[0, 0].scatter(diabetes_data['Age'], diabetes_data['BMI'])
                        axes[0, 0].set_xlabel('Age')
axes[0, 0].set_ylabel('BMI')
axes[0, 0].set_title('Age vs BMI')
                         axes[0, 1].scatter(diabetes_data['Age'], diabetes_data['BloodPressure'])
                        axes[0, 1].set_xlabel('Age')
axes[0, 1].set_ylabel('Blood Pressure')
axes[0, 1].set_title('Age vs Blood Pressure')
                        axes[0, 0].scatter(diabetes_data['Age'], diabetes_data['Pregnancies'])
axes[1, 0].set_xlabel('Age')
axes[1, 0].set_ylabel('Pregnancies')
axes[1, 0].set_title('Age vs Pregnancies')
                        axes[1, 0].set_title( Age vs Pregnancies )
axes[1, 1].scatter(diabetes_data['Age'], diabetes_data['Glucose'])
axes[1, 1].set_xlabel('Age')
axes[1, 1].set_ylabel('Glucose')
axes[1, 1].set_title('Age vs Glucose')
                         plt.tight_layout()
                         plt.show()
```











```
In [20]: # 8. Generate box plot for age and glucose
plt.boxplot(diabetes_data['Age'])
plt.xlabel('Age')
plt.title('Age Box Plot')
plt.show()
plt.boxplot(diabetes_data['Glucose'])
plt.xlabel('Glucose')
plt.title('Glucose Box Plot')
plt.show()
```

