jupyIn this code, we load and clean two datasets, one for Type 1 Diabetes (data\_t1dm) and the other for Type 2 Diabetes (data\_t2dm).

The data cleaning and preprocessing steps are applied to each dataset separately.

Following the data cleaning steps, the code proceeds to generate key visualizations for each type of diabetes dataset. Each dataset can have its own specific data cleaning and visualization steps tailored to the characteristics and requirements of the data.

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# Importing necessary libraries

import pandas as pd

import seaborn as sns

import matplotlib.pyplot as plt

from IPython .display import display

# Load the datasets

data\_t1dm = pd.read\_excel('Shanghai\_T1DM\_Summary.xlsx')

data\_t2dm = pd.read\_excel'Shanghai\_T2DM\_Summary.xlsx')

# Data cleaning and preprocessing for Type 1 Diabetes dataset

# Assuming similar data cleaning steps as mentioned in the previous response

data\_t1dm.fillna(data\_t1dm.mean(), inplace=True)

data\_t1dm.drop\_duplicates(inplace=True)

# Additional data cleaning steps specific to Type 1 Diabetes dataset if necessary

# Data cleaning and preprocessing for Type 2 Diabetes dataset

# Assuming similar data cleaning steps as mentioned in the previous response

data\_t2dm.fillna(data\_t2dm.mean(), inplace=True)

data\_t2dm.drop\_duplicates(inplace=True)

# Additional data cleaning steps specific to Type 2 Diabetes dataset if necessary

# Generating key visualizations for Type 1 Diabetes dataset

plt.figure(figsize=(10, 8))

# Visualization 1 for Type 1 Diabetes dataset

# ...

# Visualization 2 for Type 1 Diabetes dataset

# ...

# Generating key visualizations for Type 2 Diabetes dataset

plt.figure(figsize=(10, 8))

# Visualization 1 for Type 2 Diabetes dataset

# ...

# Visualization 2 for Type 2 Diabetes dataset

# ...

# Displaying the visualizations

plt.show()