

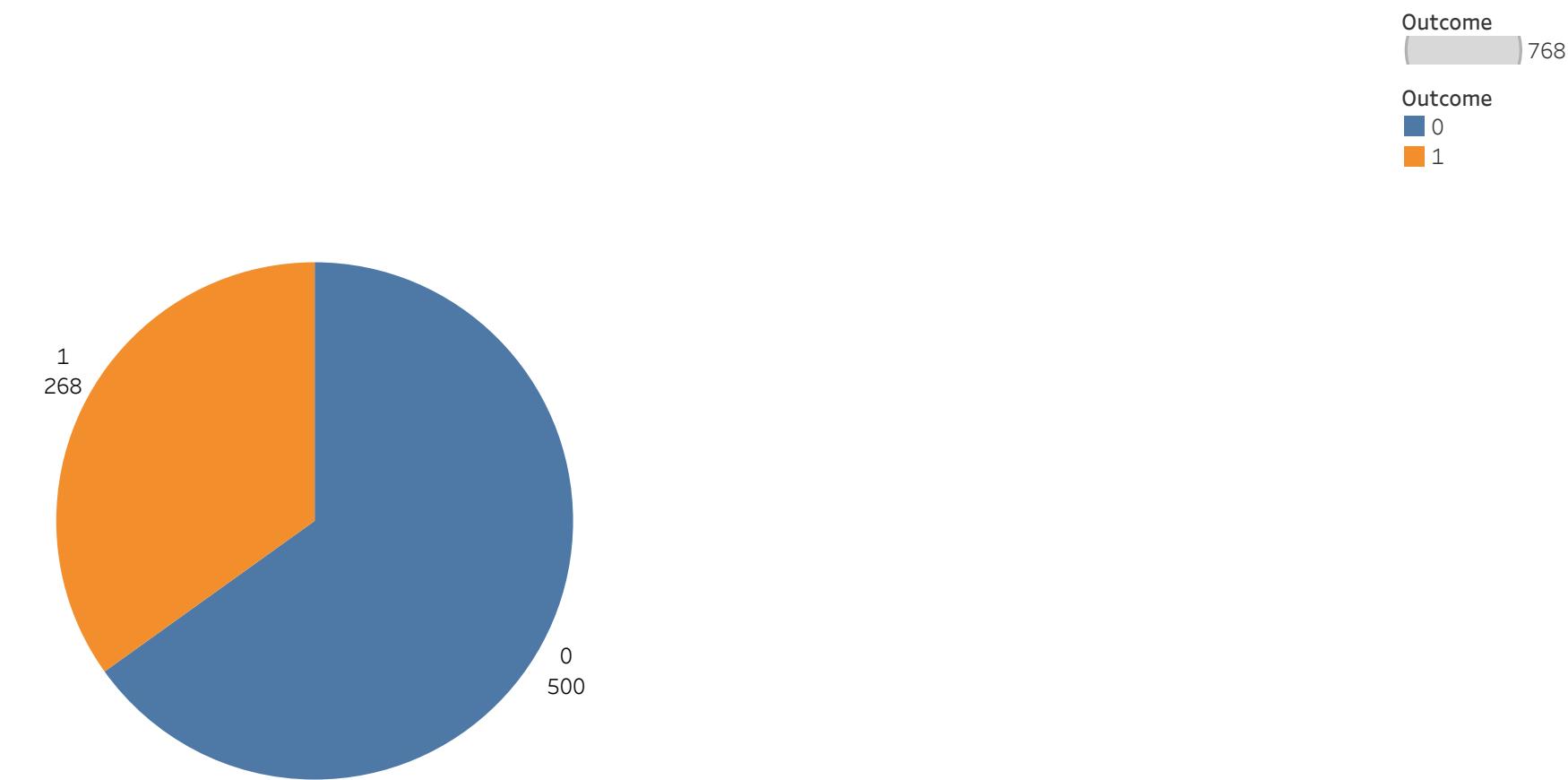
Context:

This dataset is originally from the National Institute of Diabetes and Digestive and Kidney Diseases. The objective of the dataset is to diagnostically predict whether or not a patient has diabetes, based on certain diagnostic measurements included in the dataset. Several constraints were placed on the selection of these instances from a larger database. In particular, all patients here are females at least 21 years old of Pima Indian heritage.

Problem Statement:

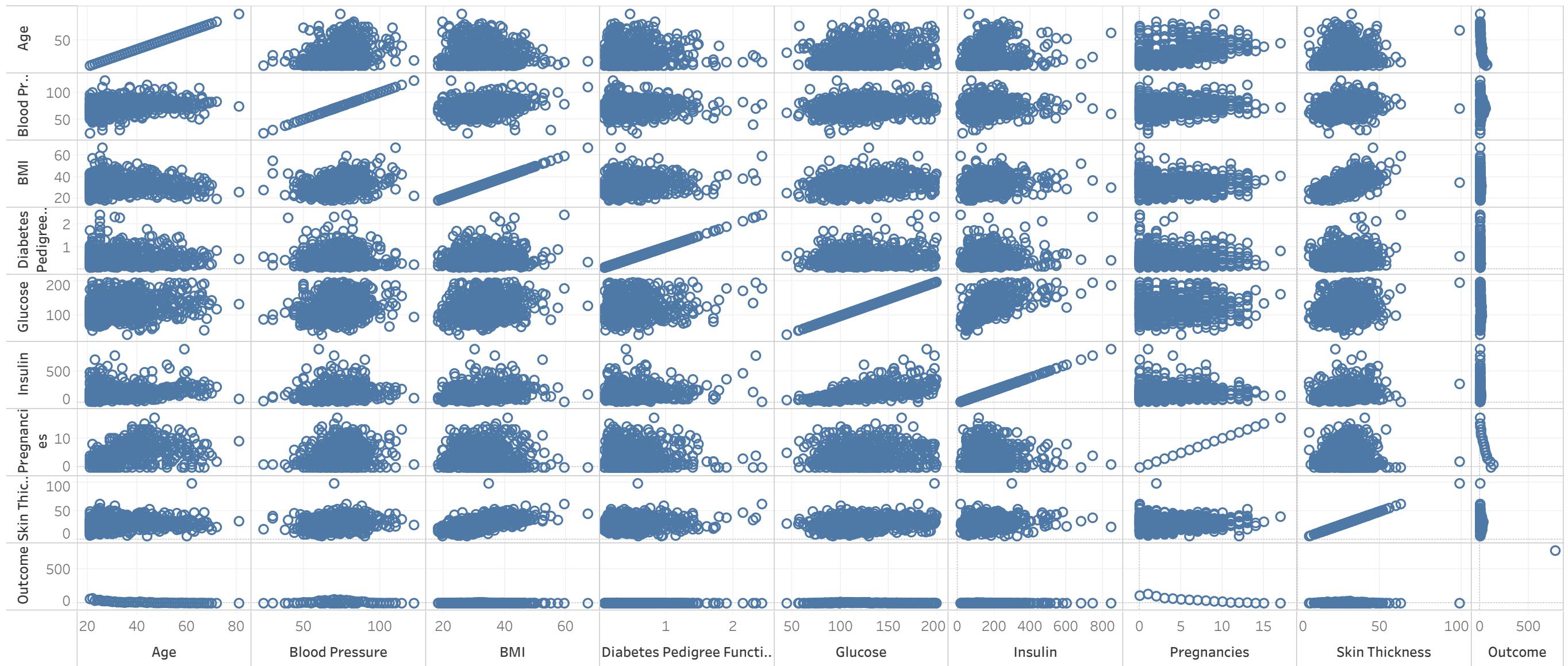
1. Create a dashboard in tableau by choosing appropriate chart types and metrics useful for the business. The dashboard must entail the following:
 - a) Pie chart to describe the diabetic/non-diabetic population
 - b) Scatter charts between relevant variables to analyse the relationships
 - c) Histogram/frequency charts to analyse the distribution of the data
 - d) Heatmap of correlation analysis among the relevant variables
 - e) Create bins of Age values – 20-25, 25-30, 30-35 etc. and analyse different variables for these age brackets using a bubble chart.

pie chart

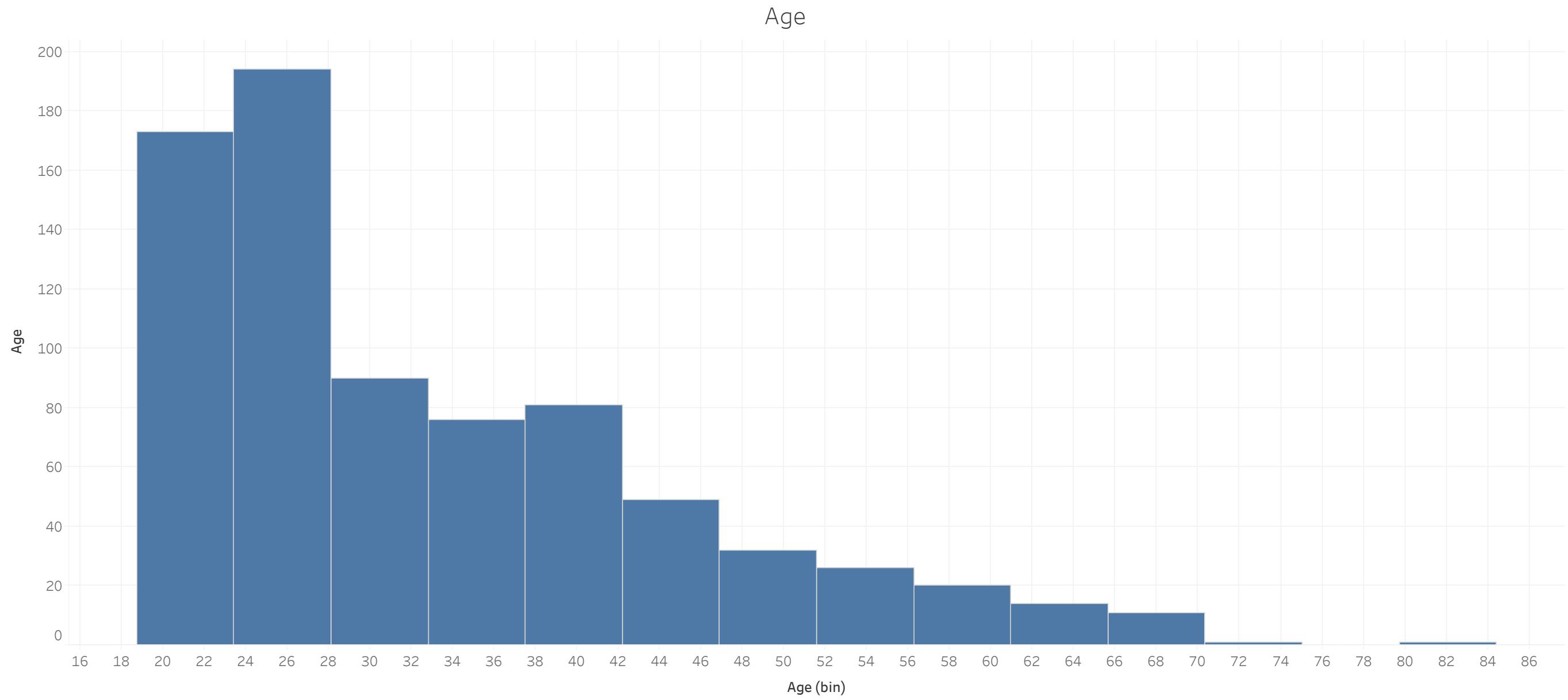


Outcome (copy) and count of Outcome. Color shows details about Outcome (copy). Size shows count of Outcome. The marks are labeled by Outcome (copy) and count of Outcome.

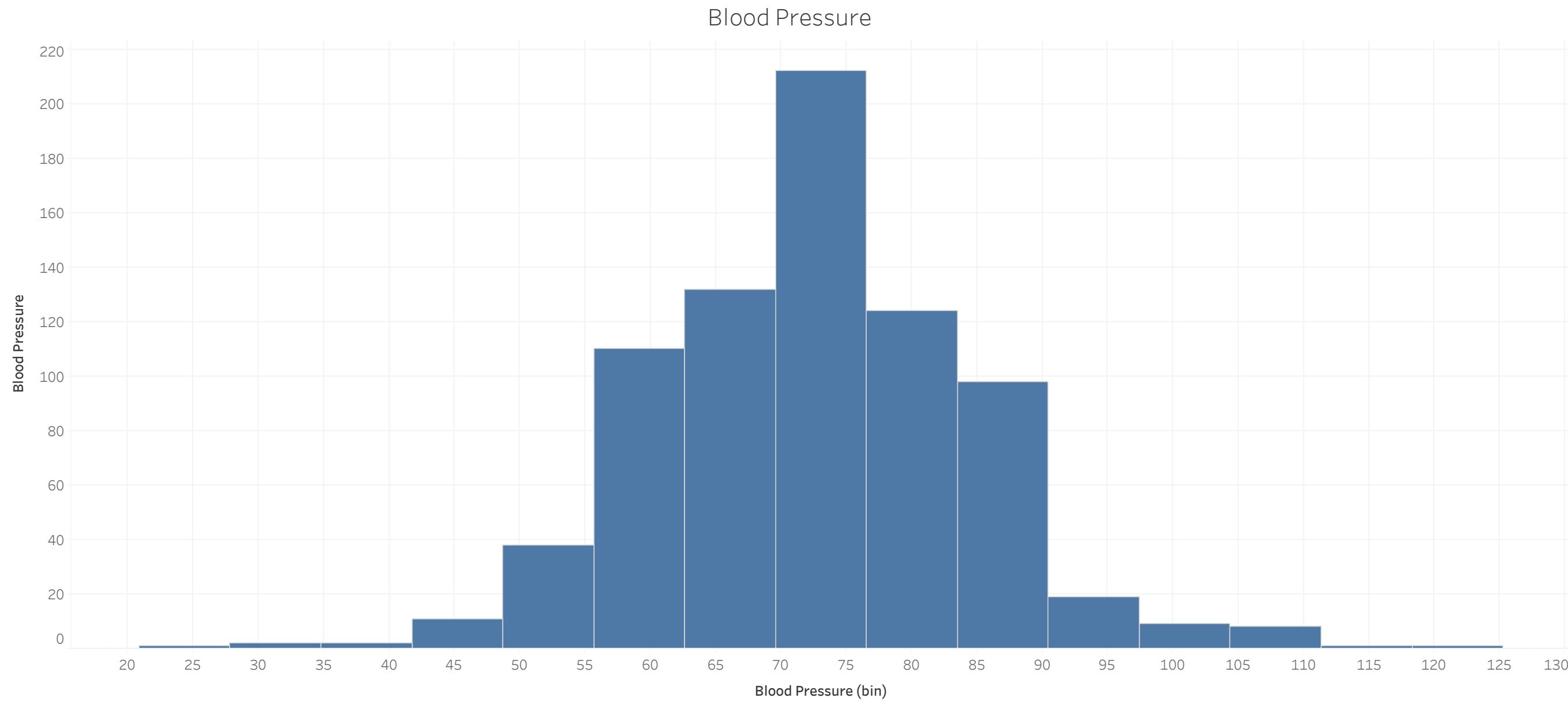
scatter plots



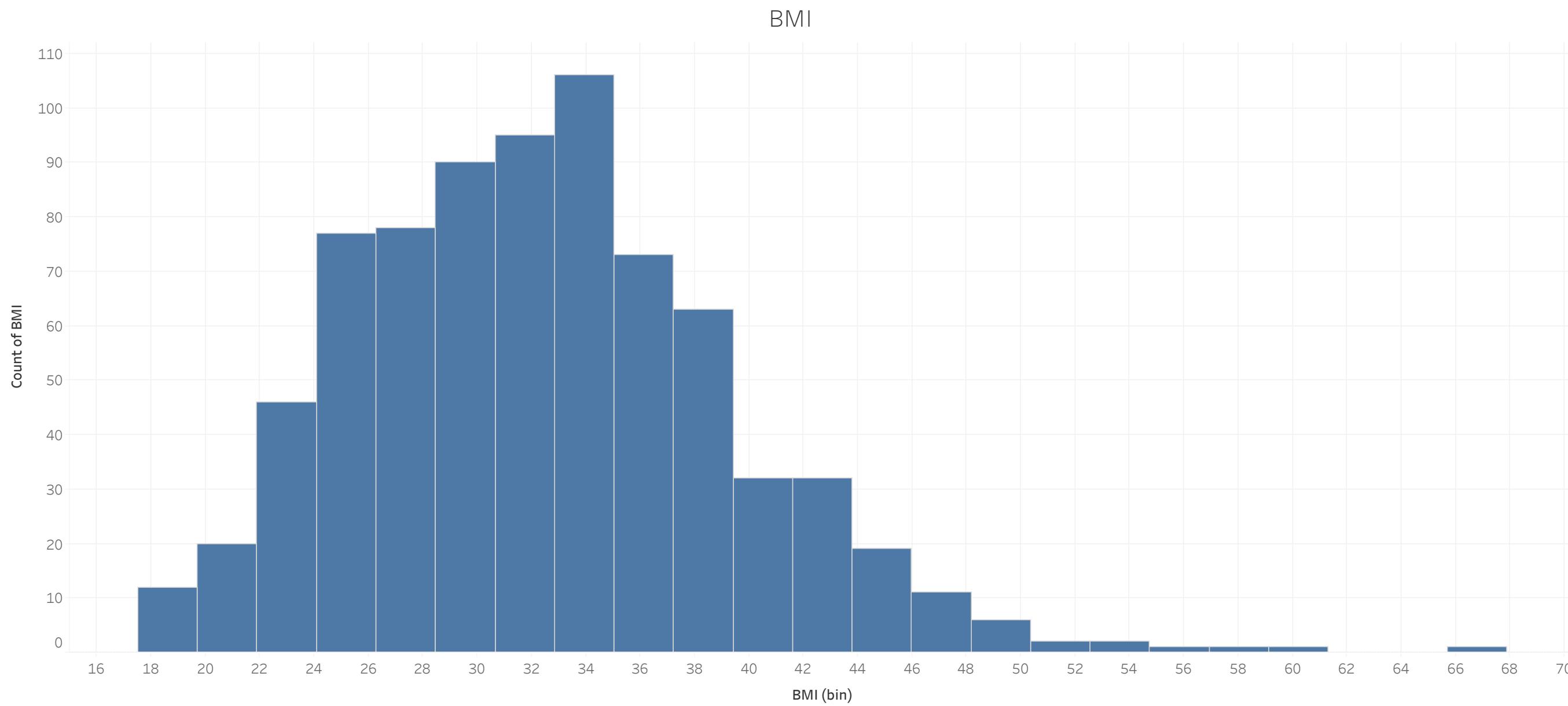
Age, Blood Pressure, BMI, Diabetes Pedigree Function, Glucose, Insulin, Pregnancies, Skin Thickness and count of Outcome vs. Age, Blood Pressure, BMI, Diabetes Pedigree Function, Glucose, Insulin, Pregnancies, Skin Thickness and count of Outcome.



The trend of count of Age for Age (bin).

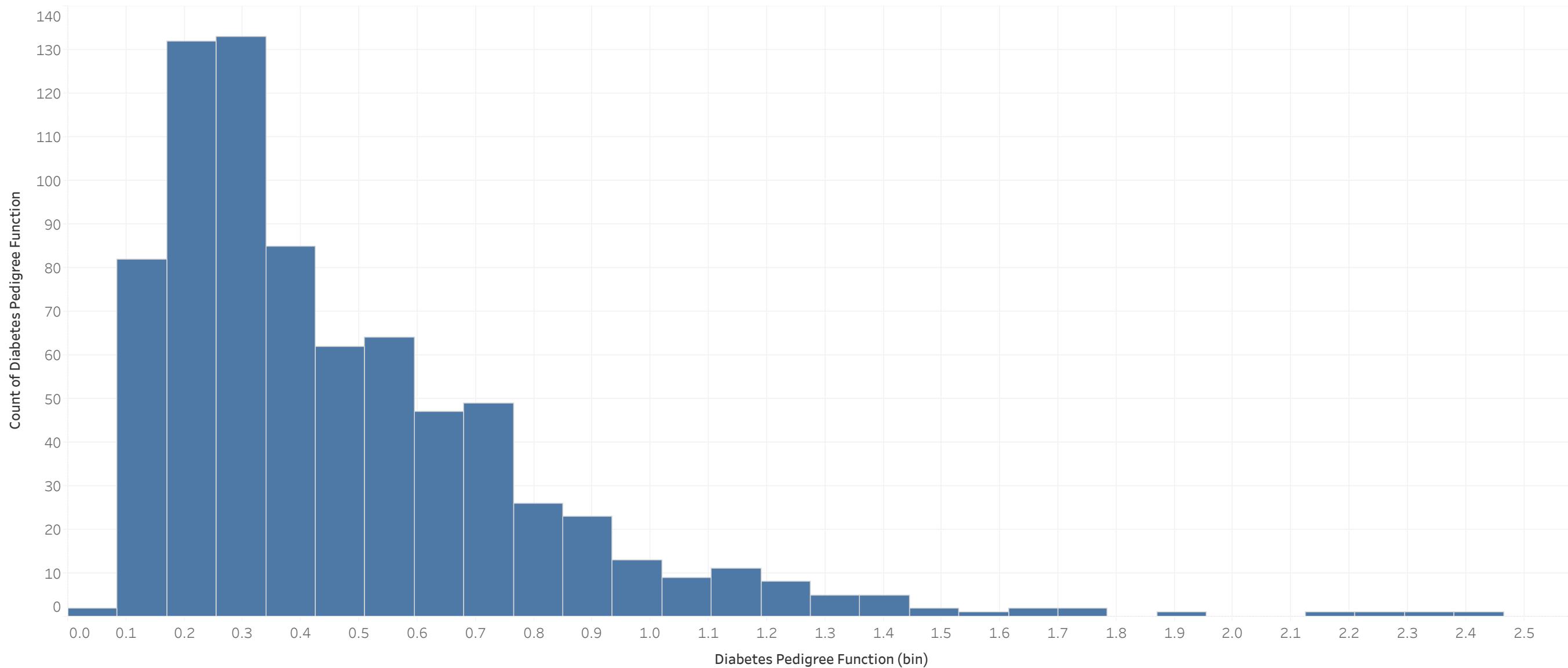


The trend of count of Blood Pressure for Blood Pressure (bin).

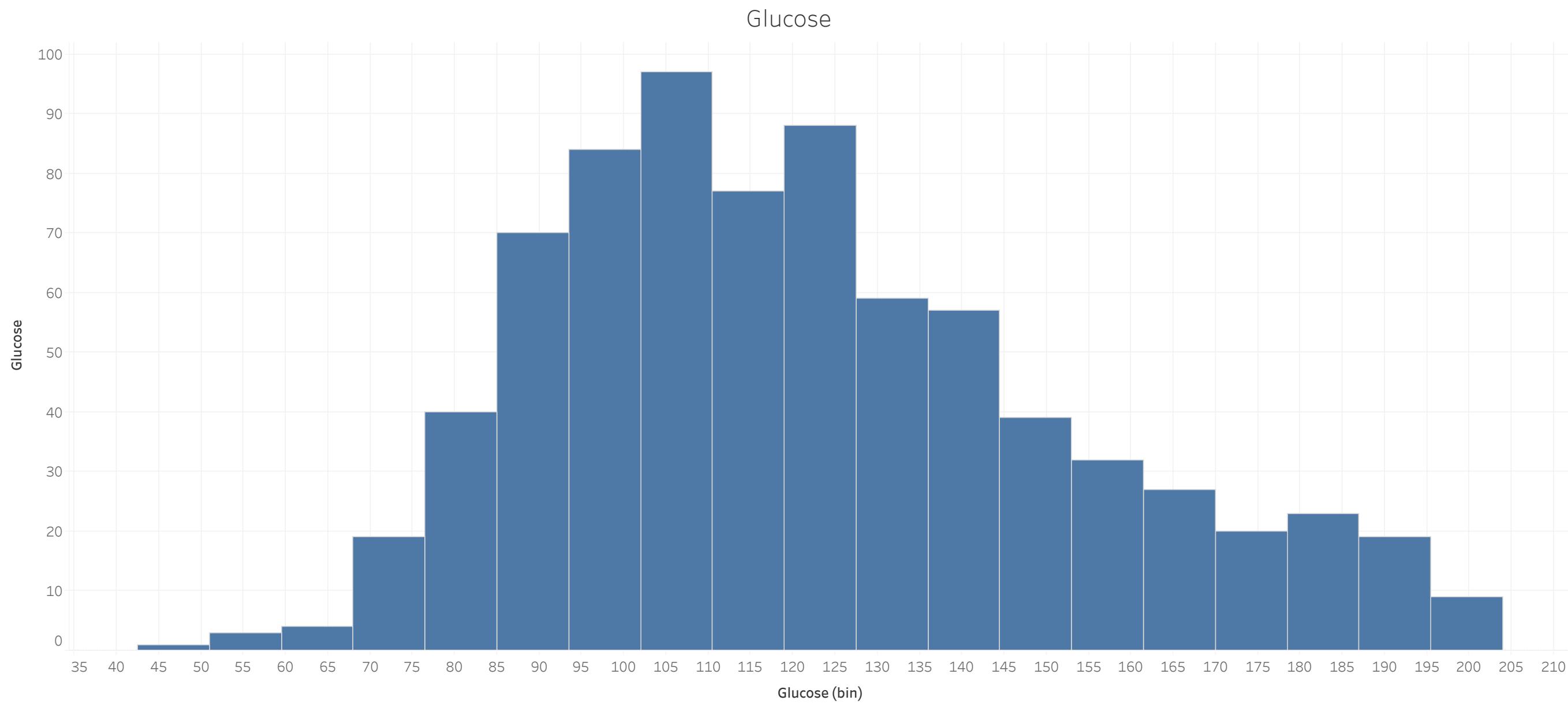


The trend of count of BMI for BMI (bin).

DPF

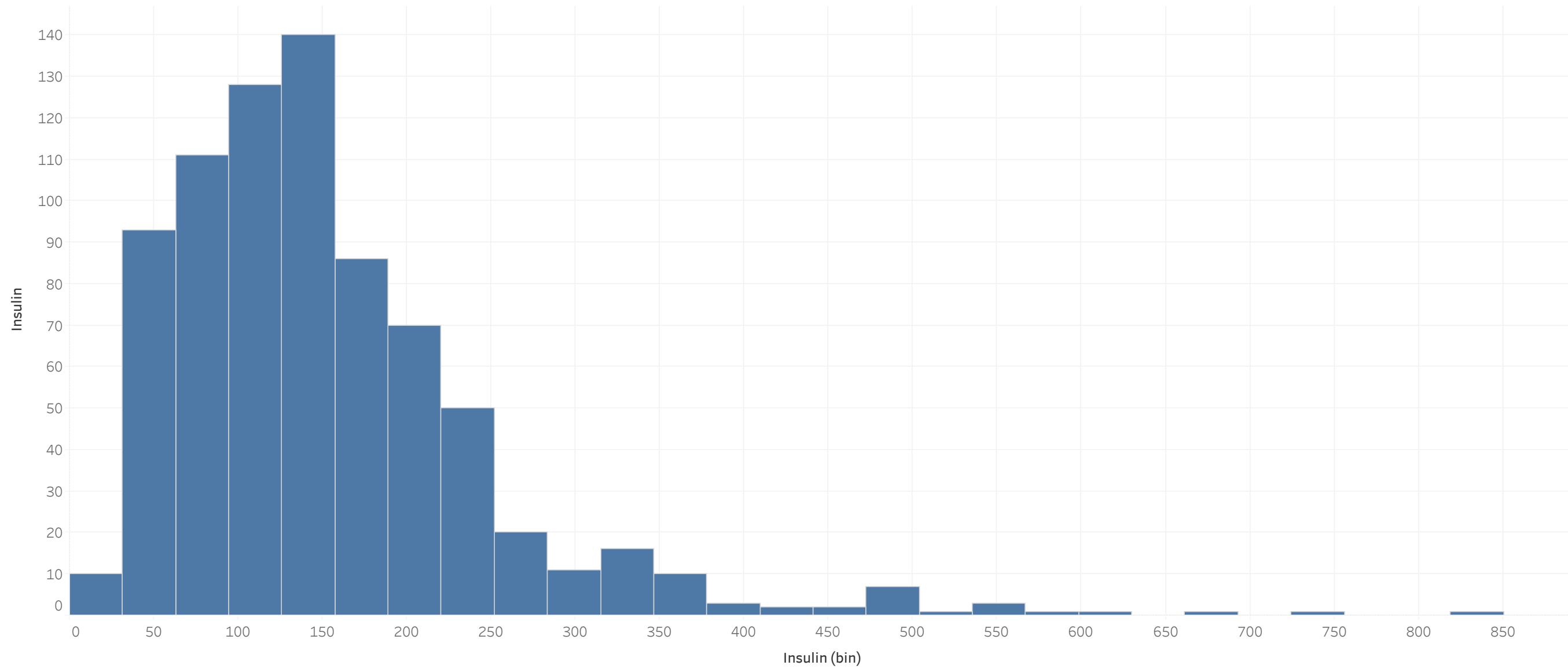


The trend of count of Diabetes Pedigree Function for Diabetes Pedigree Function (bin).

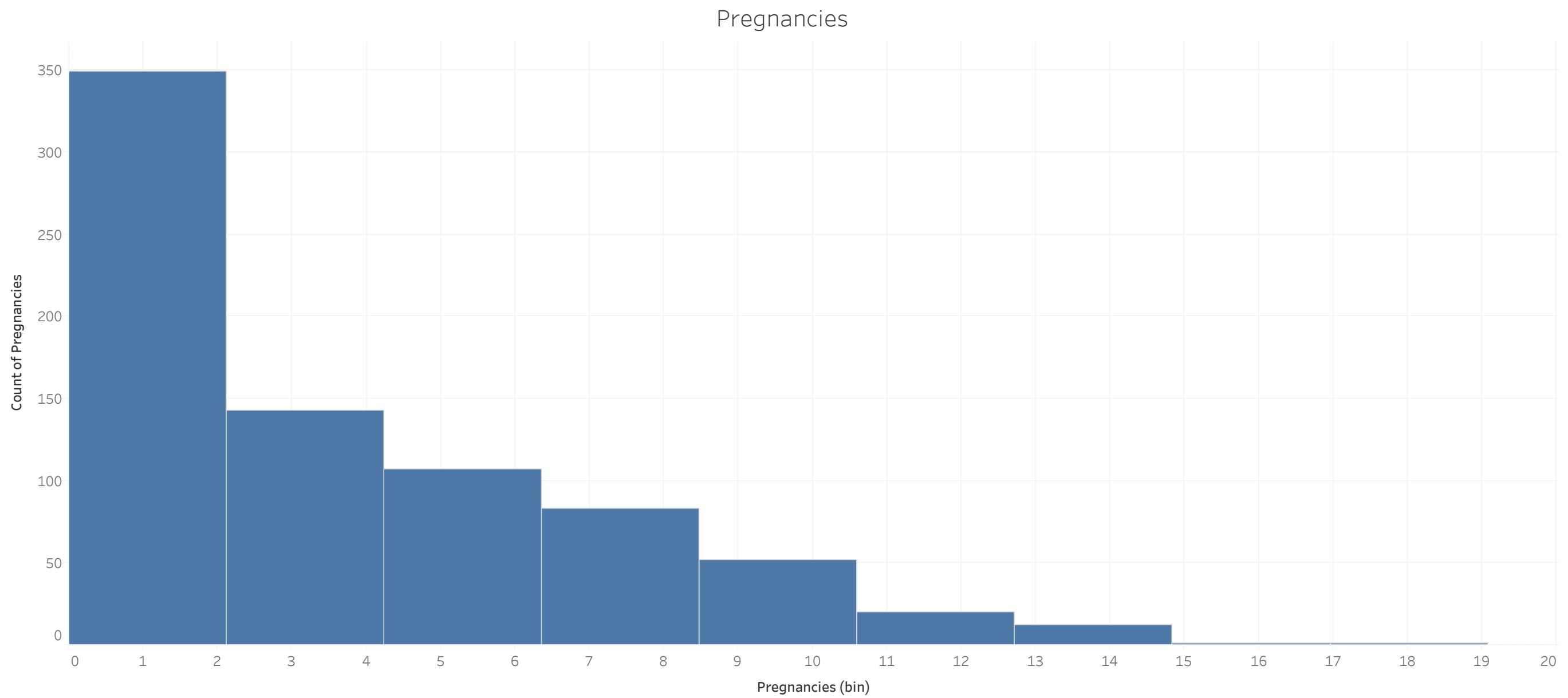


The trend of count of Glucose for Glucose (bin).

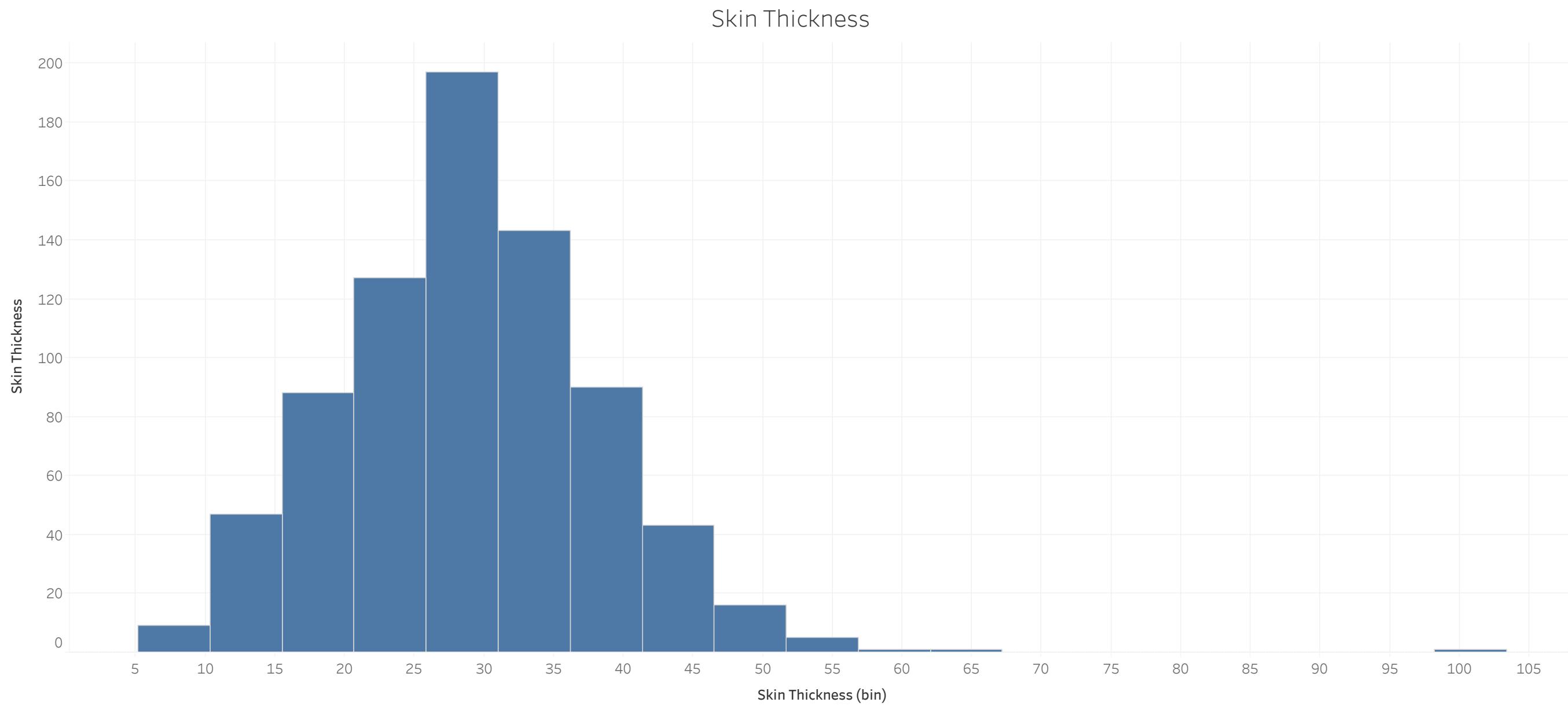
Insuline



The trend of count of Insulin for Insulin (bin).

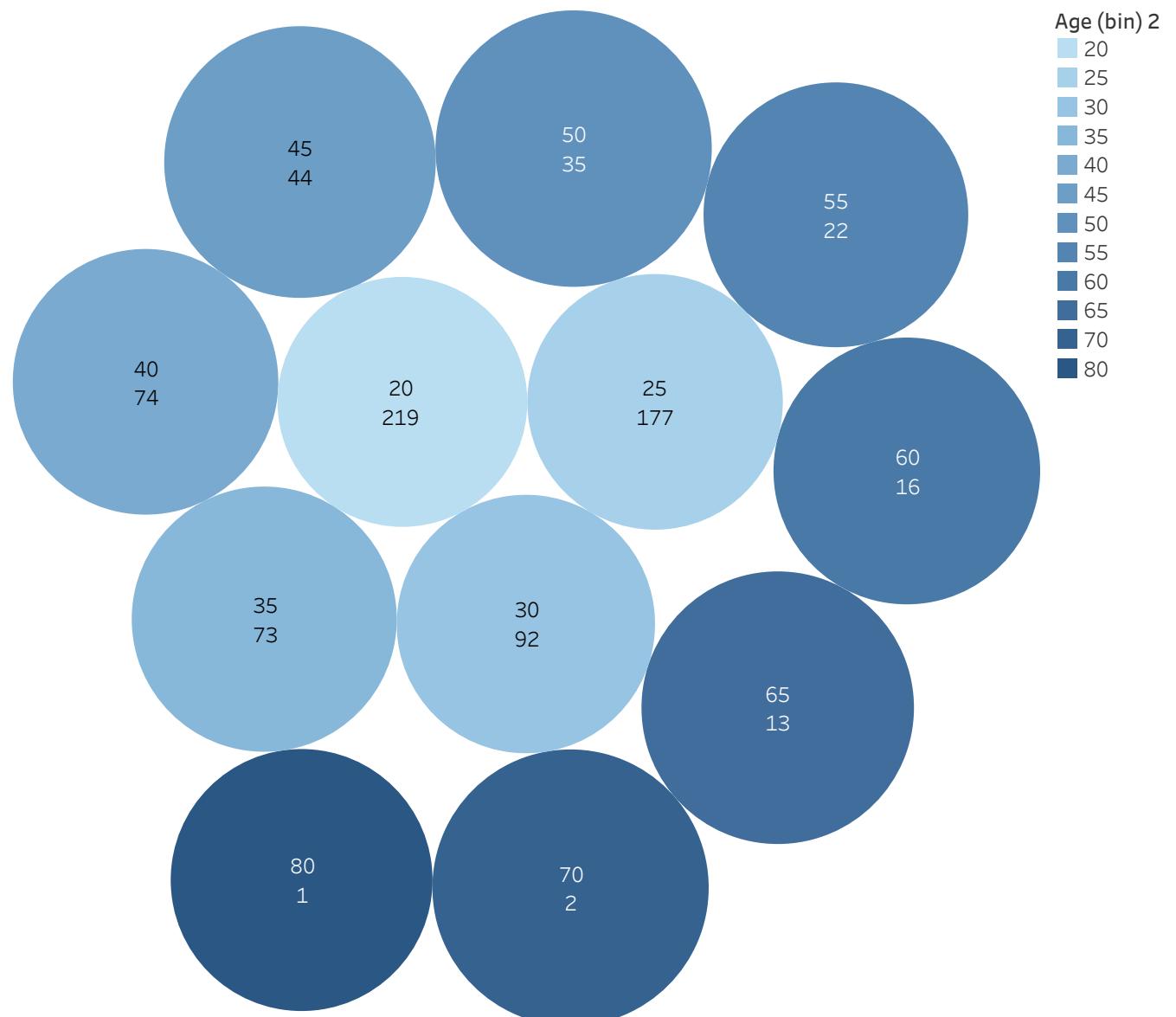


The trend of count of Pregnancies for Pregnancies (bin).



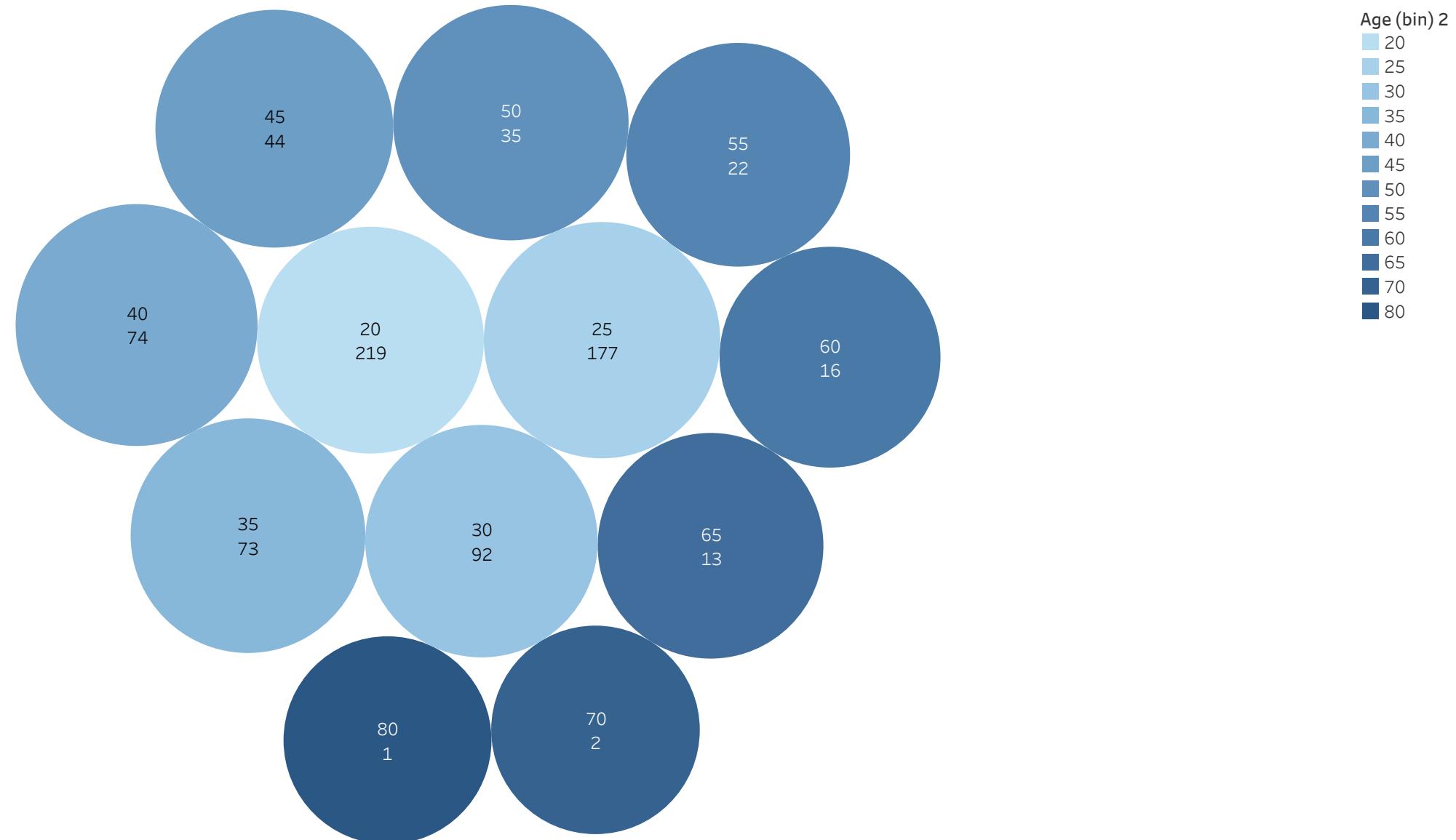
The trend of count of Skin Thickness for Skin Thickness (bin).

Age vs Blood Pressure



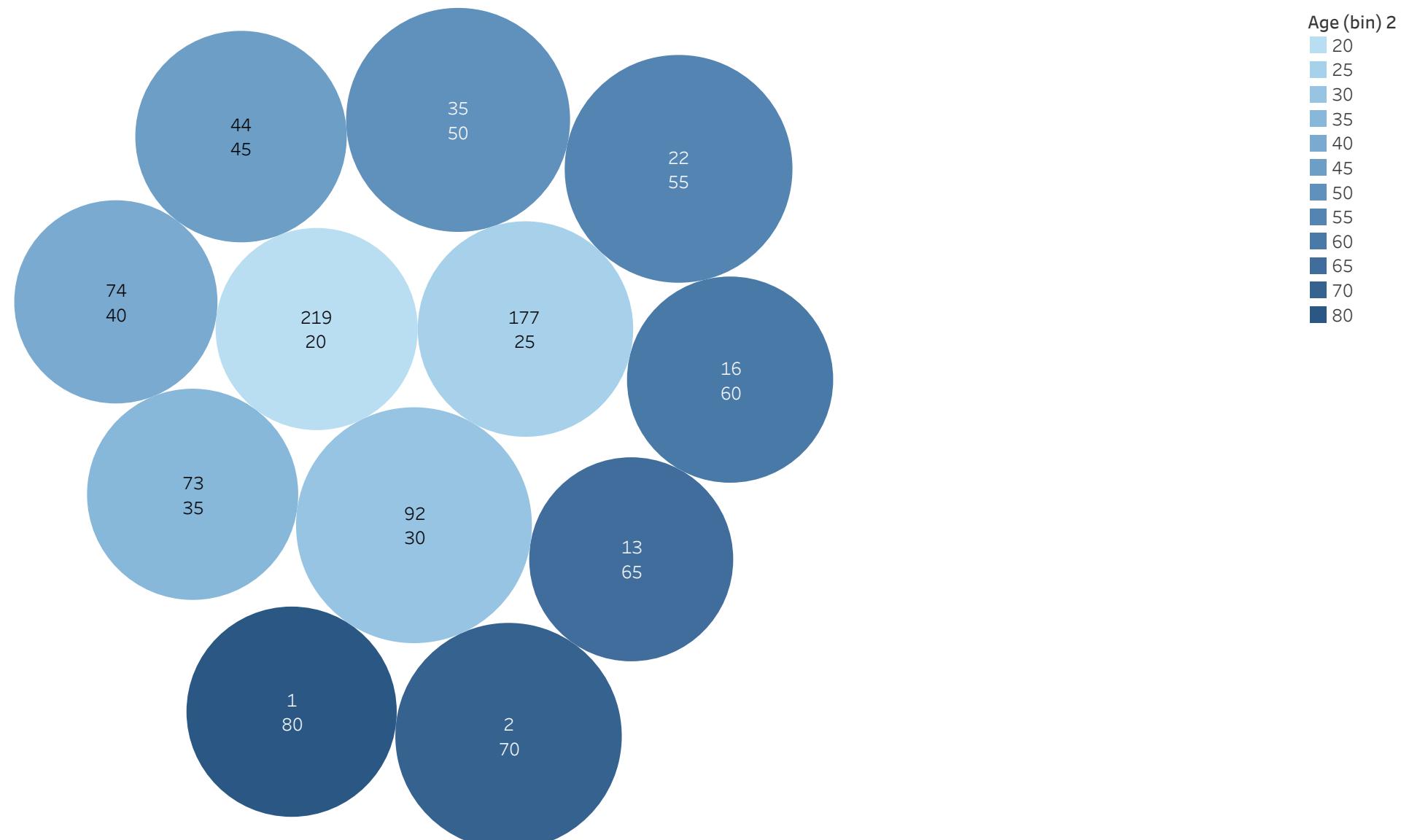
Age (bin) 2 and count of Blood Pressure. Color shows details about Age (bin) 2. Size shows average of Blood Pressure. The marks are labeled by Age (bin) 2 and count of Blood Pressure.

Age vs BMI



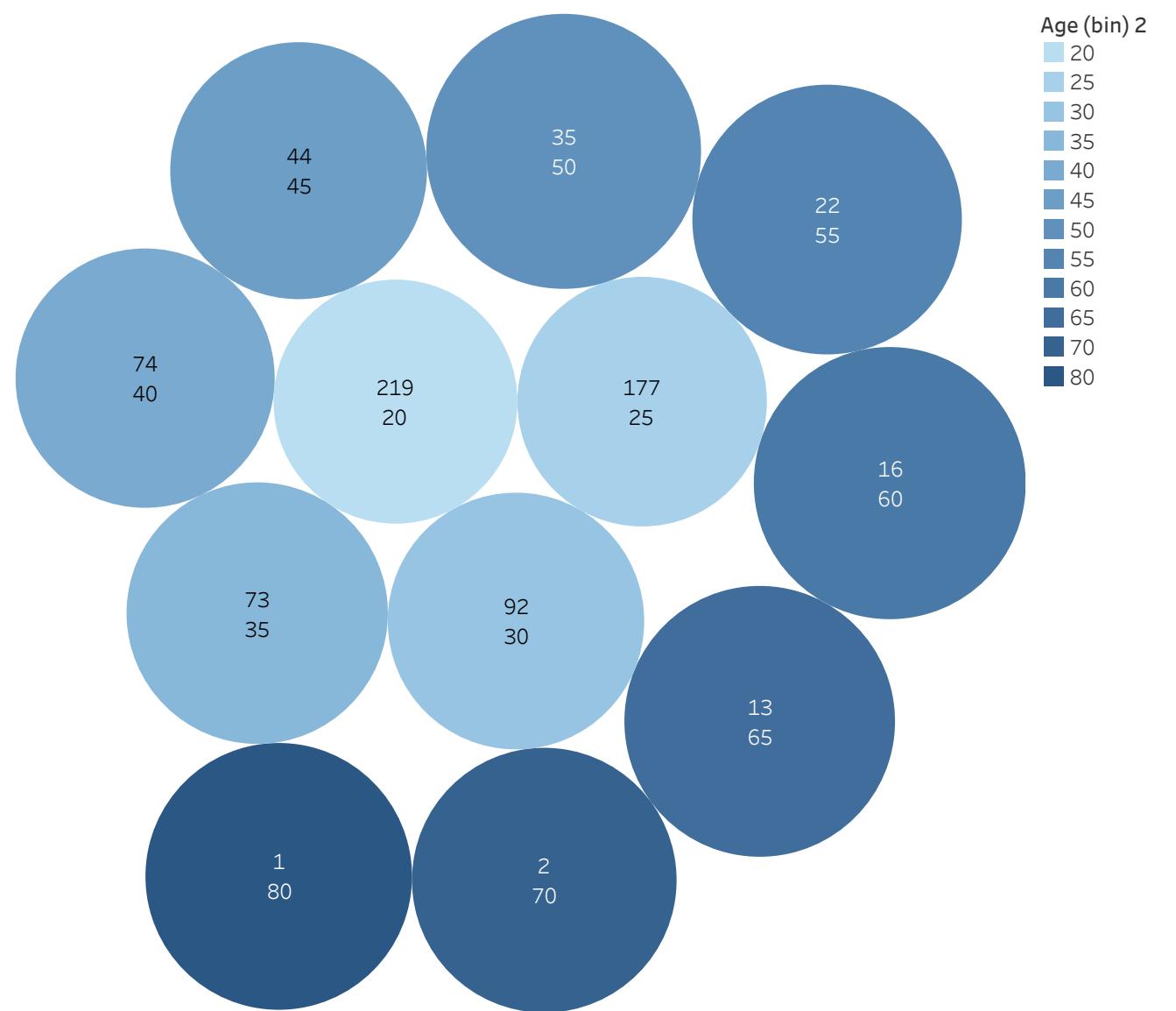
Age (bin) 2 and count of BMI. Color shows details about Age (bin) 2. Size shows average of BMI. The marks are labeled by Age (bin) 2 and count of BMI.

Age vs DBF



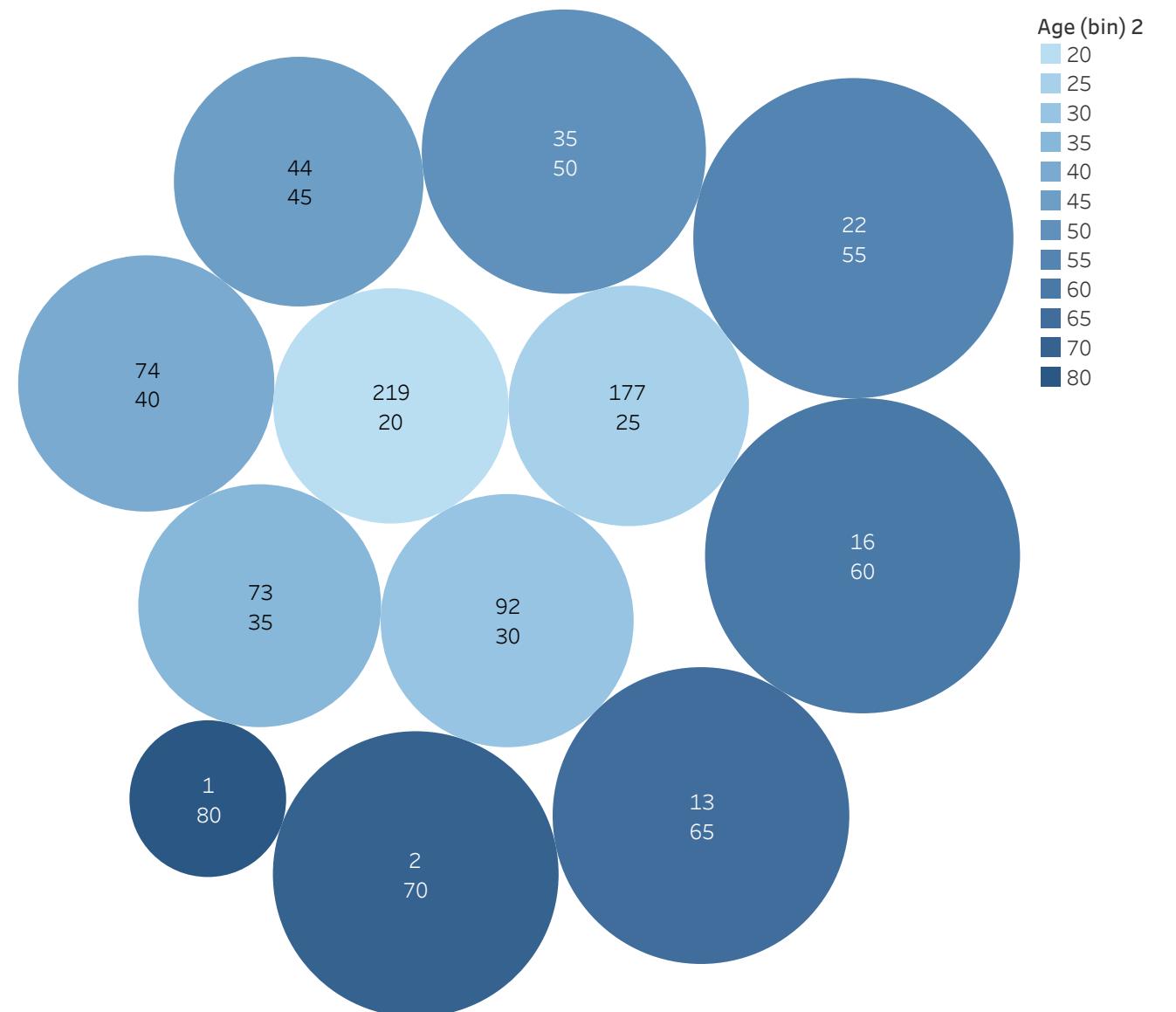
Count of Diabetes Pedigree Function and Age (bin) 2. Color shows details about Age (bin) 2. Size shows average of Diabetes Pedigree Function. The marks are labeled by count of Diabetes Pedigree Function and Age (bin) 2.

Age vs glucose



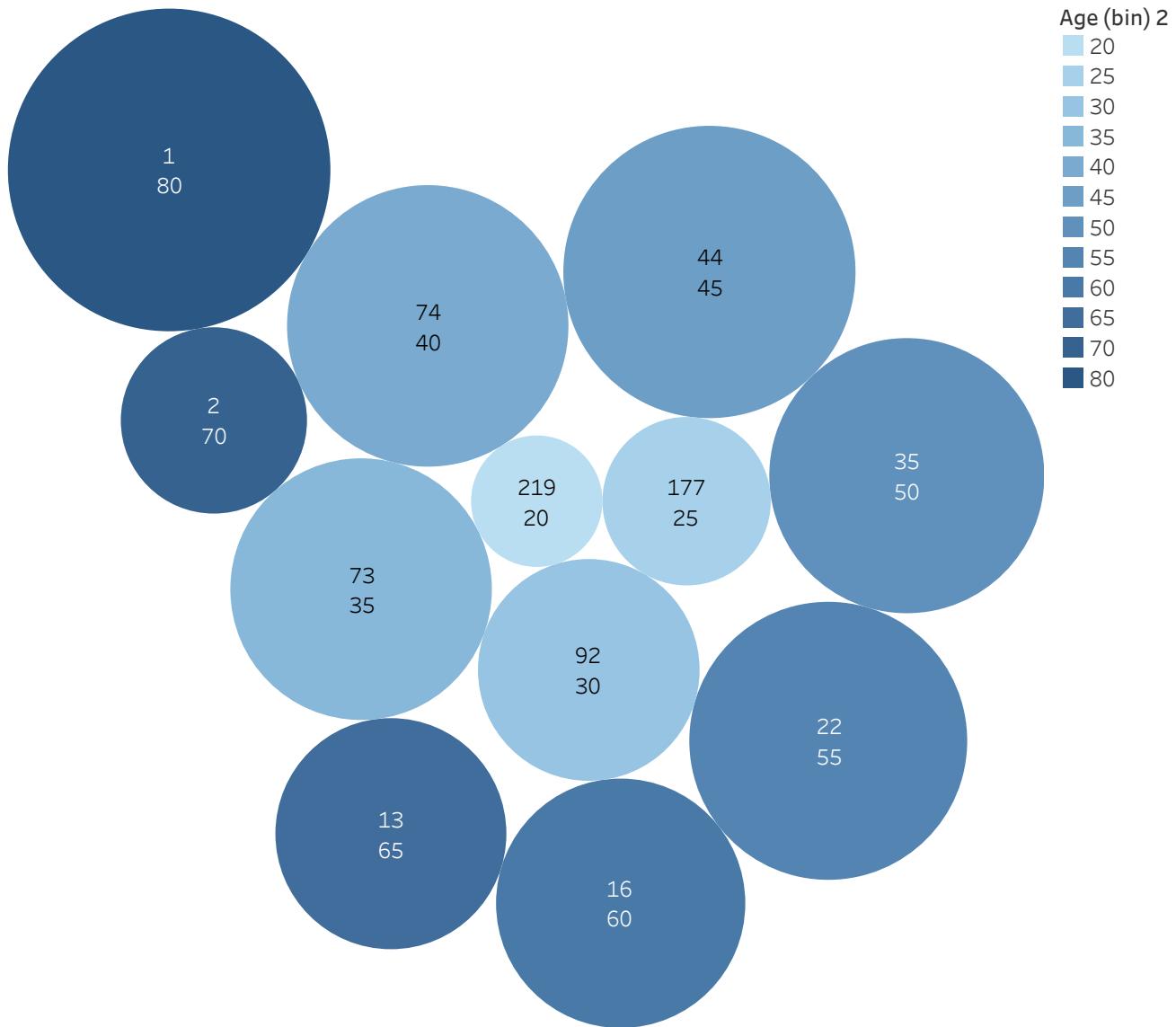
Count of Glucose and Age (bin) 2. Color shows details about Age (bin) 2. Size shows average of Glucose. The marks are labeled by count of Glucose and Age (bin) 2.

Age vs Insuline



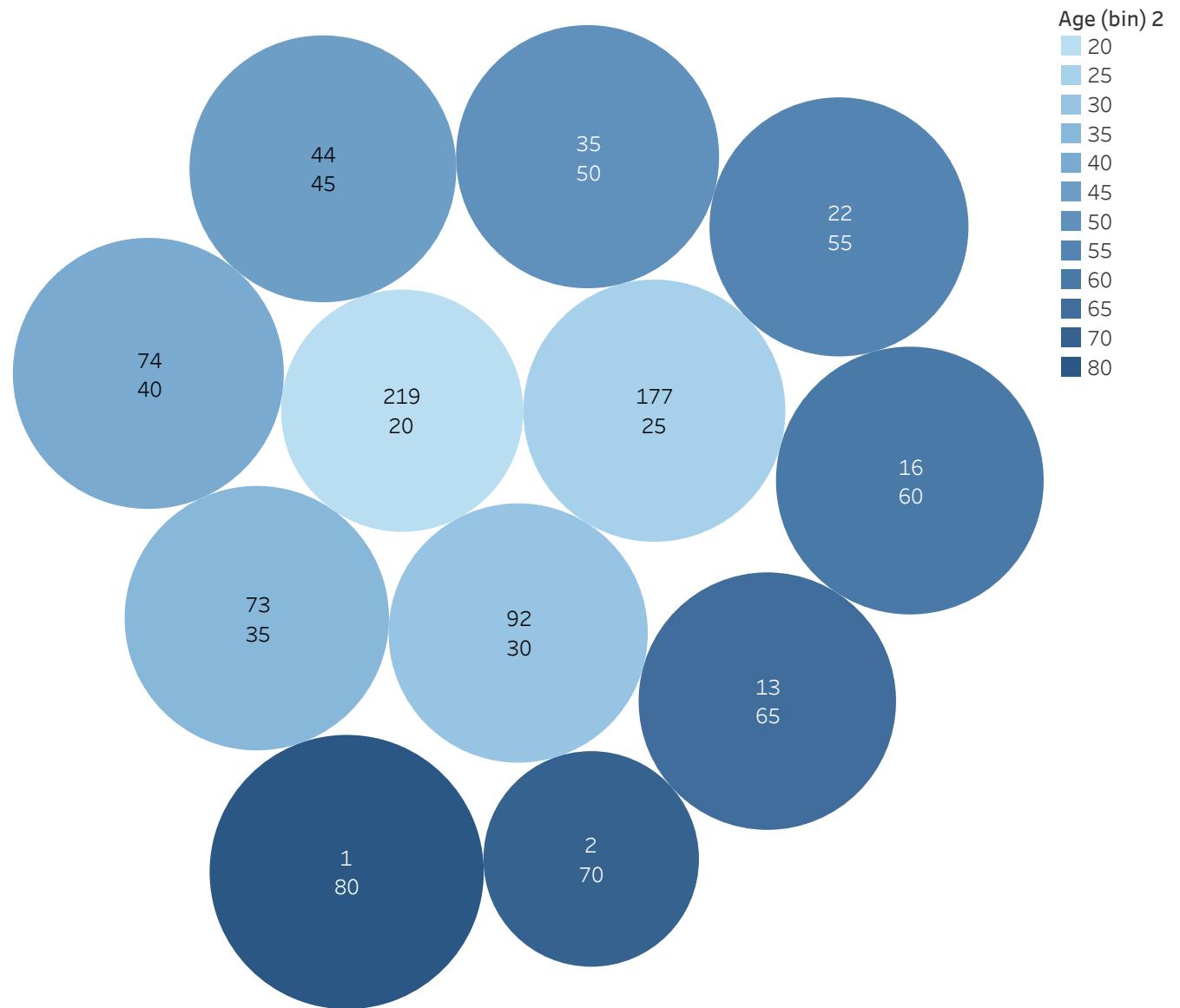
Count of Insulin and Age (bin) 2. Color shows details about Age (bin) 2. Size shows average of Insulin.
The marks are labeled by count of Insulin and Age (bin) 2.

Age vs Pregnancies



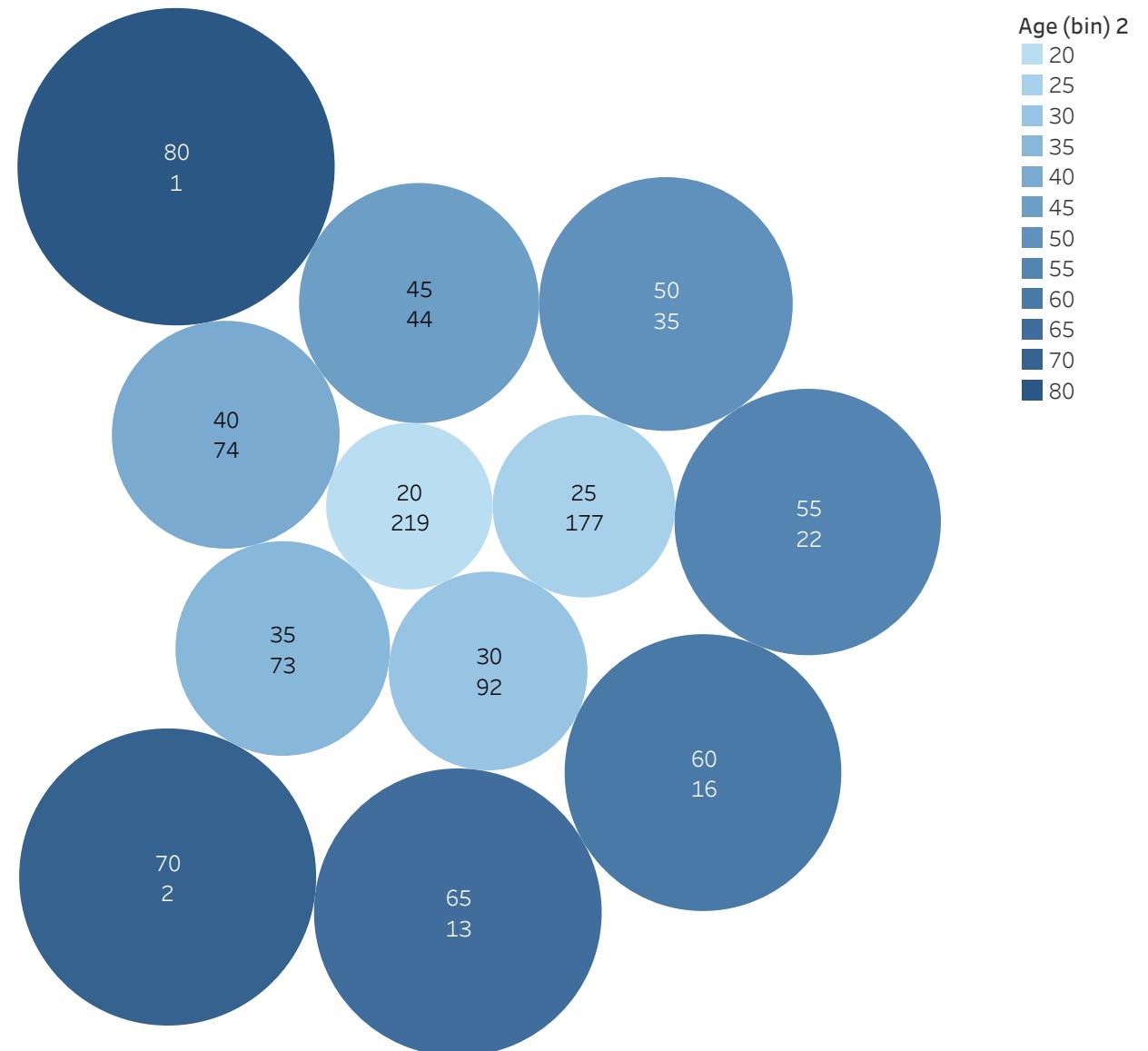
Count of Pregnancies and Age (bin) 2. Color shows details about Age (bin) 2. Size shows average of Pregnancies. The marks are labeled by count of Pregnancies and Age (bin) 2.

Age vs Skin Thickness



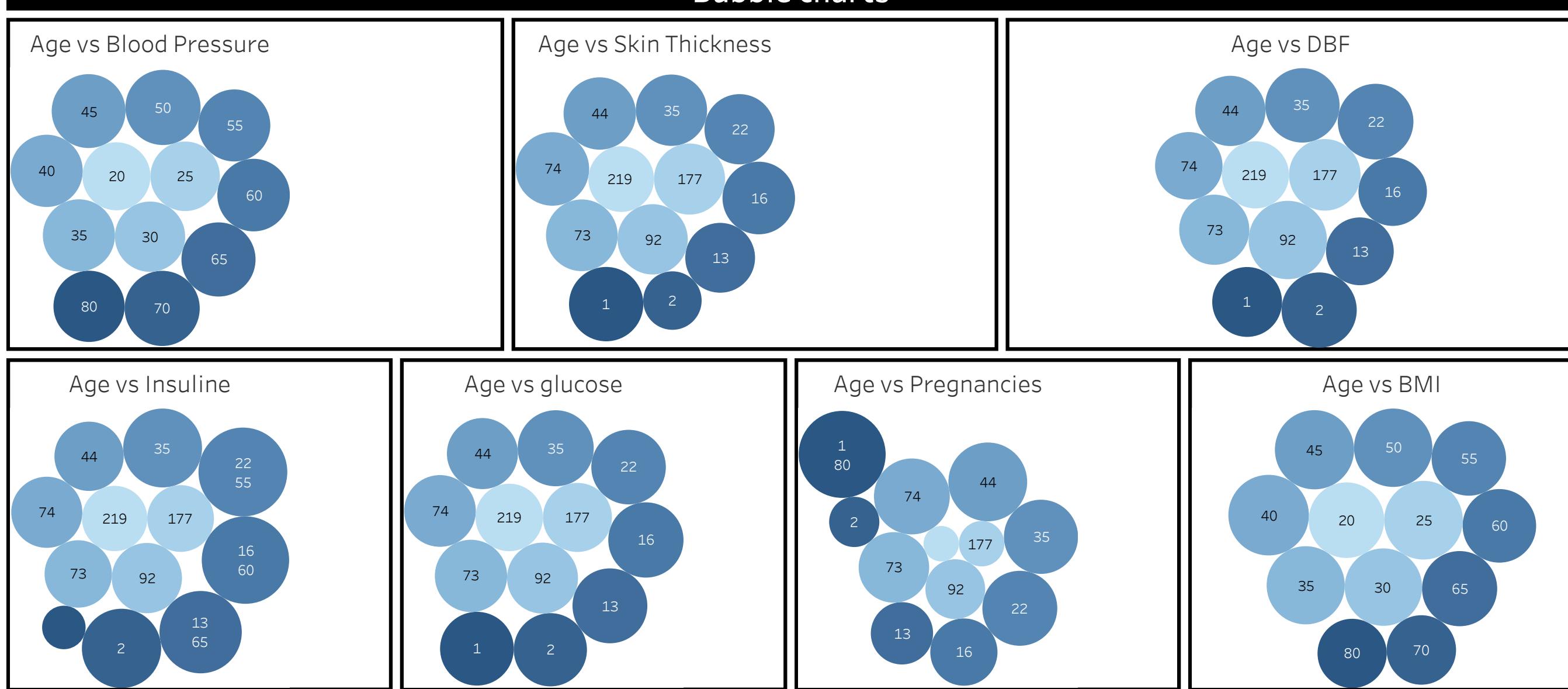
Count of Skin Thickness and Age (bin) 2. Color shows details about Age (bin) 2. Size shows average of Skin Thickness. The marks are labeled by count of Skin Thickness and Age (bin) 2.

age vs age

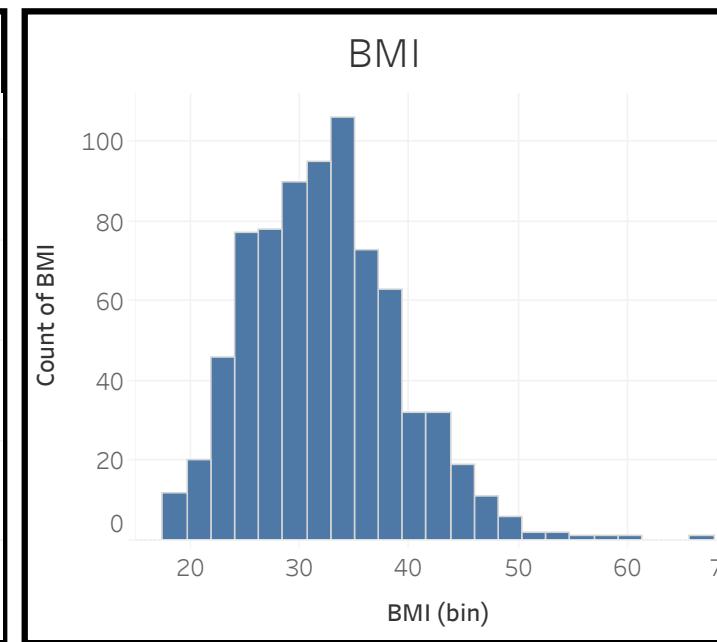
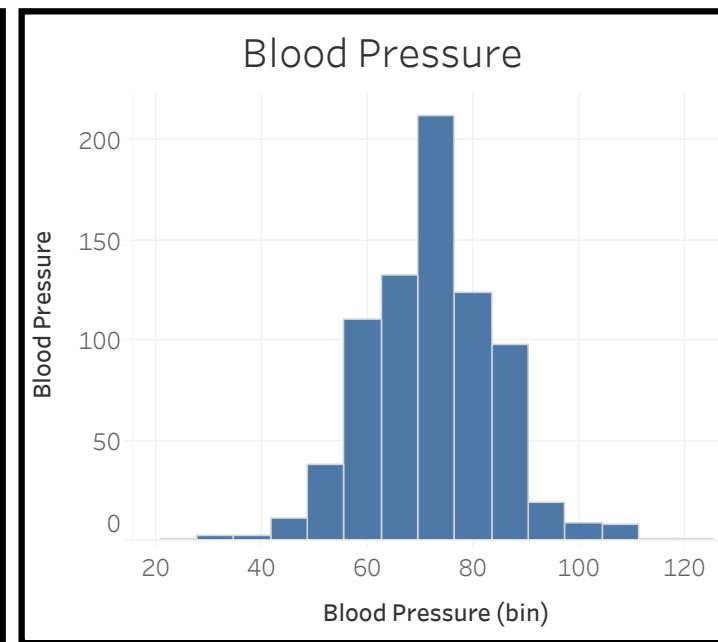
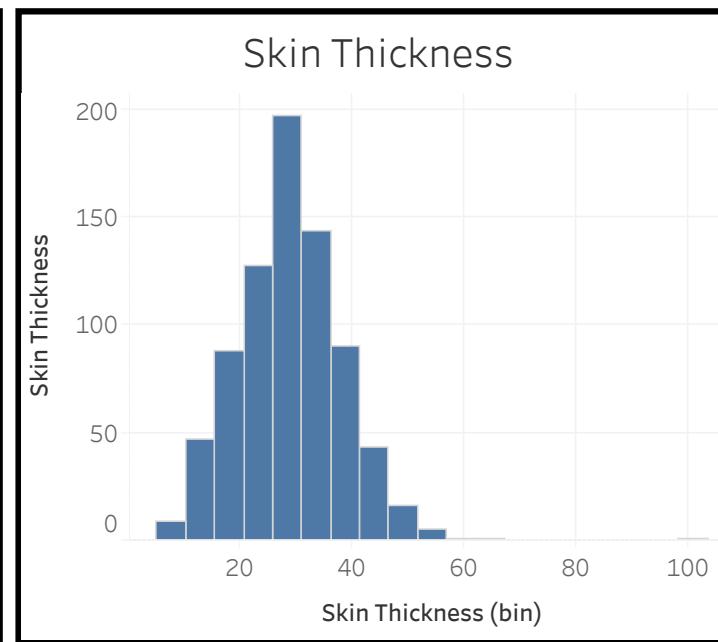
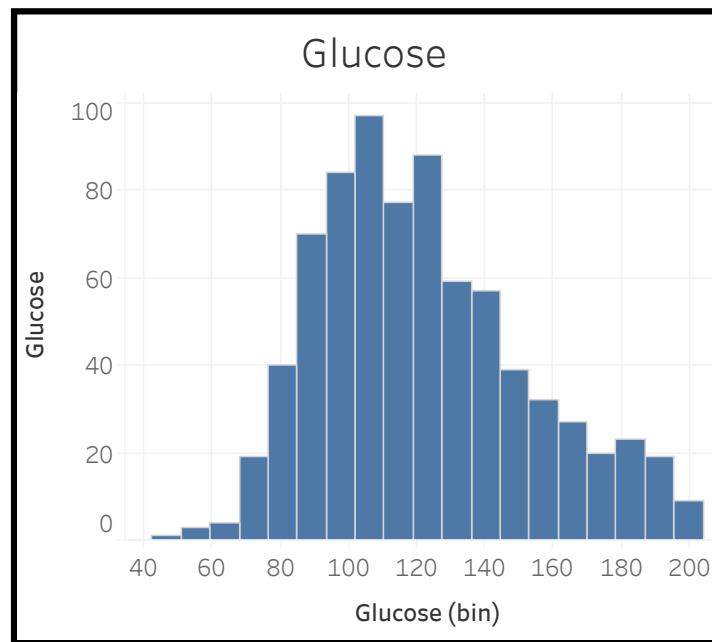
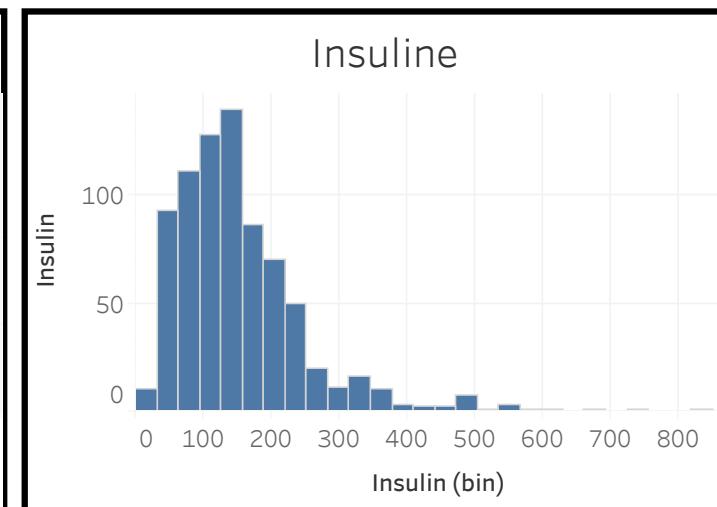
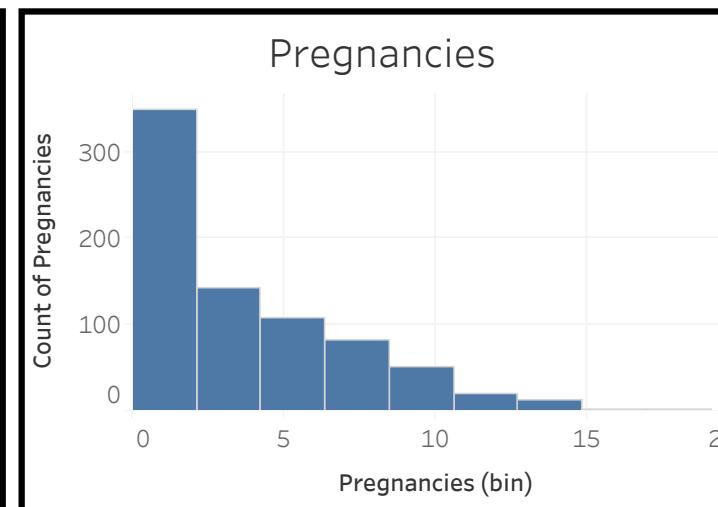
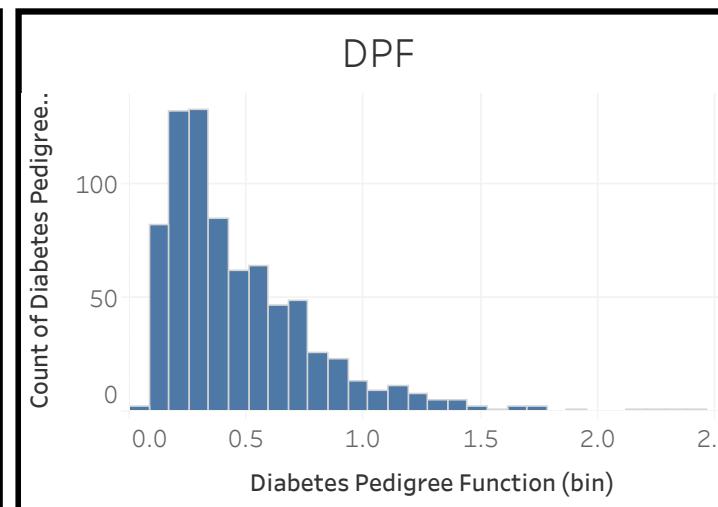
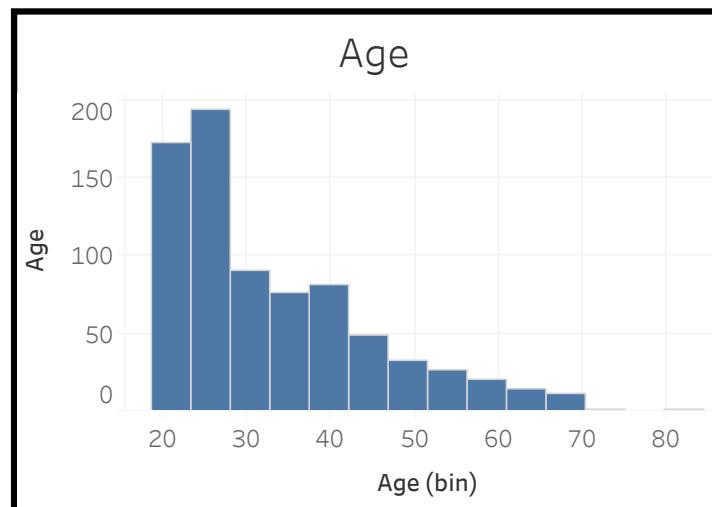


Age (bin) 2 and count of Age. Color shows details about Age (bin) 2. Size shows average of Age. The marks are labeled by Age (bin) 2 and count of Age.

Bubble charts



histogram/frequency plots

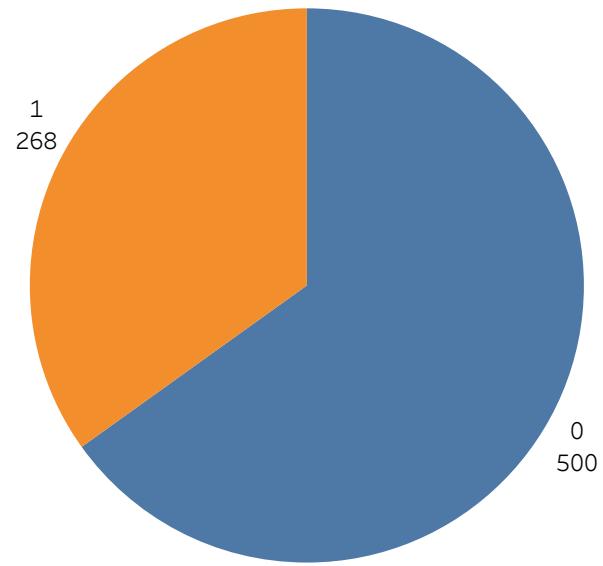


Story-Diabetes and Digestive and Kidney Diseases.

1 2 3 4

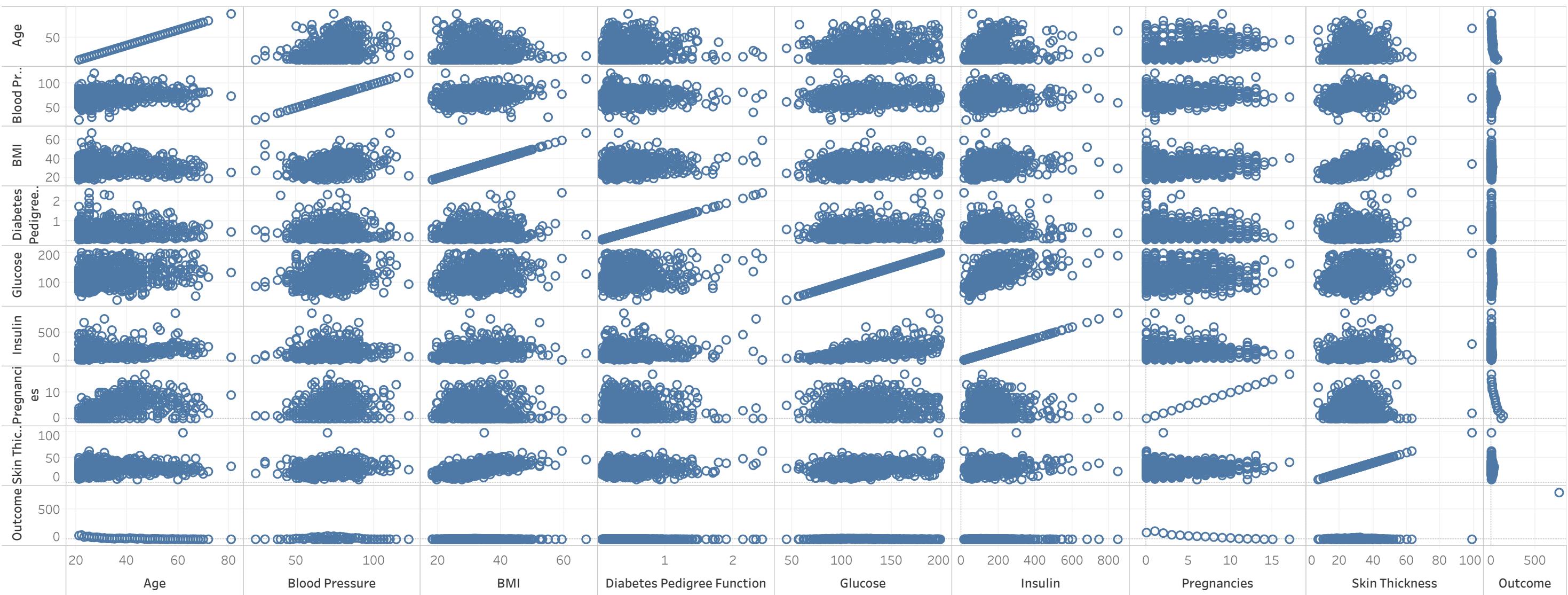
Outcome
0
1

Outcome
768



Story-Diabetes and Digestive and Kidney Diseases.

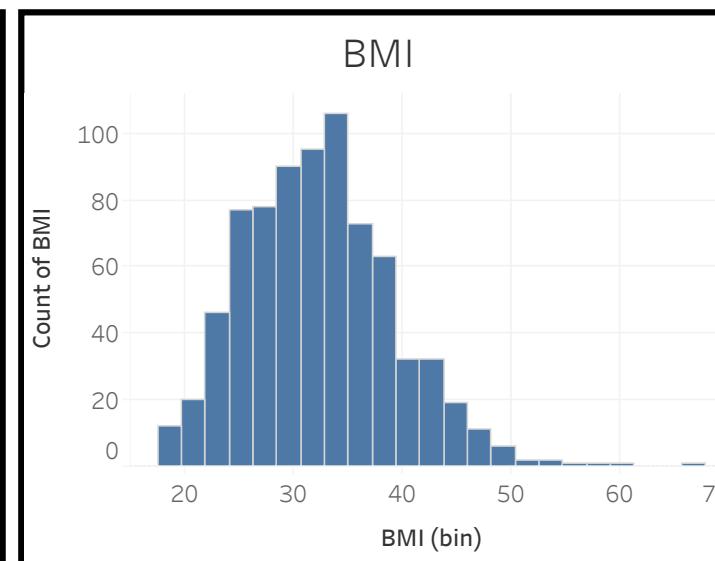
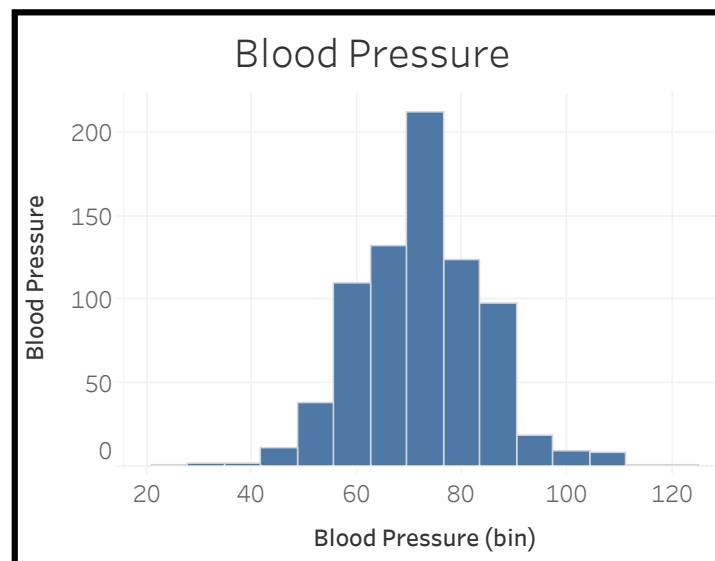
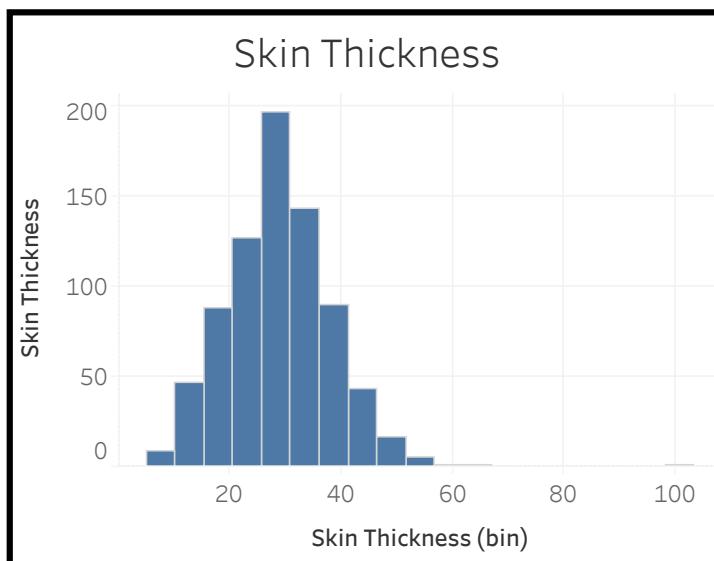
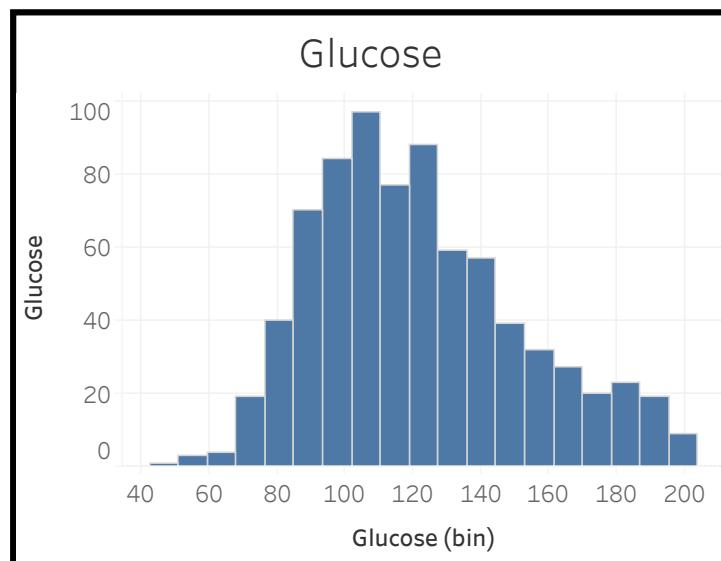
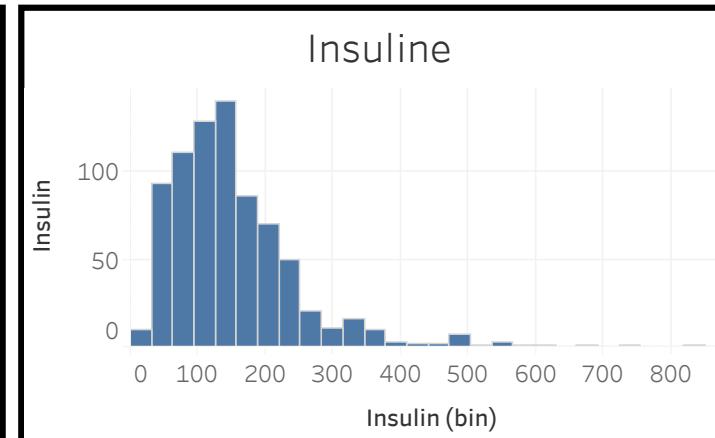
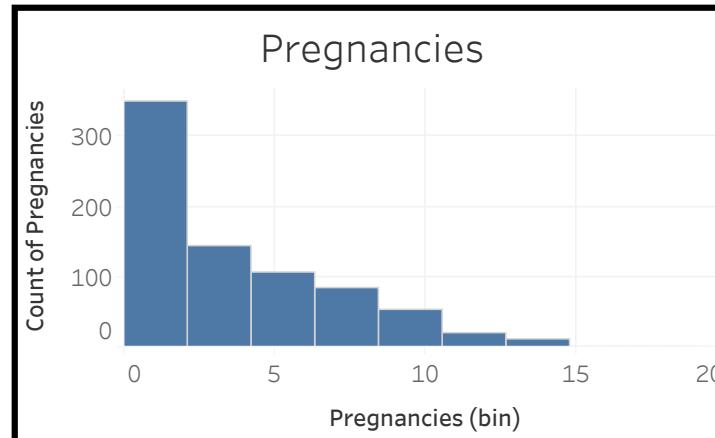
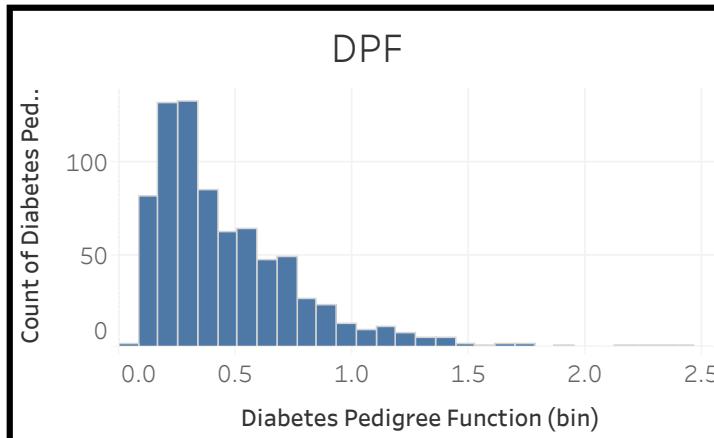
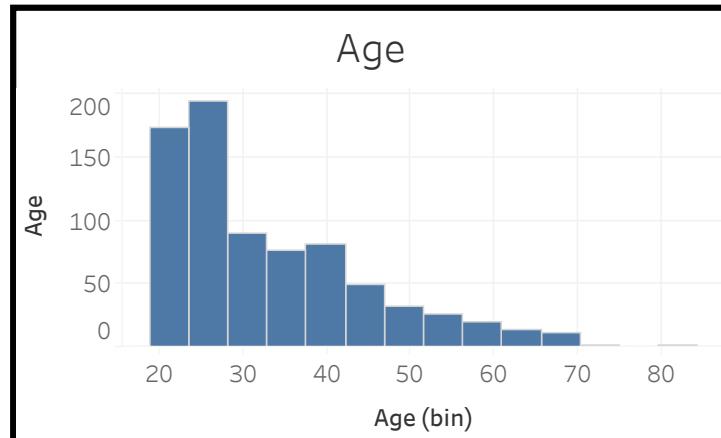
1 2 3 4



Story-Diabetes and Digestive and Kidney Diseases.

1 2 3 4

histogram/frequency plots



Story-Diabetes and Digestive and Kidney Diseases.

1 2 3 4

Bubble charts

