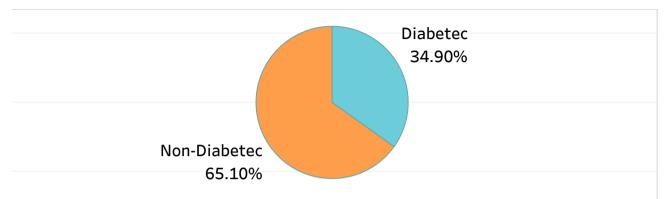
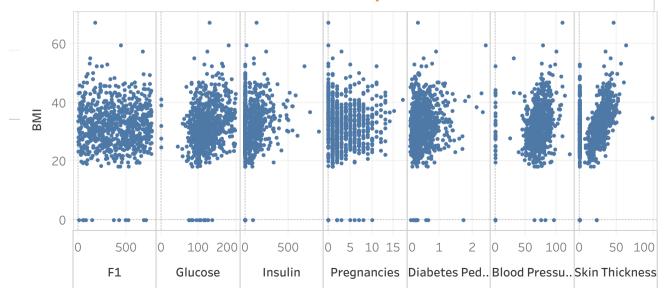
# PIE CHART TO DESCRIBE THE DIABETEC AND NON-DIABETEC POPULATION



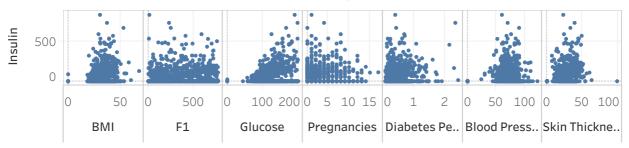
# SCATTER CHARTS TO ANALYSE THE RELATIONSHIP BETWEEN THE VARIABLES

## Scatter charts between BMI and Other Variables to analyze the relationships

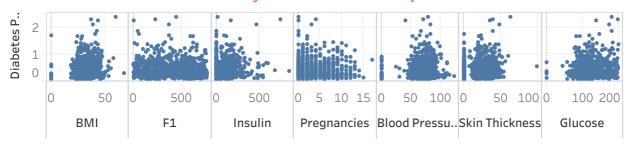


#### SCATTER CHARTS TO ANALYSE THE RELATIONSHIP BETWEEN THE VARIABLES

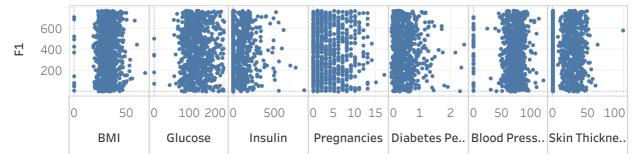
## Scatter charts between Insulin and Other Variables to analyze the relationships



## Scatter charts between Diabetes Pedigree Function and Other Variables to analyze the relationships

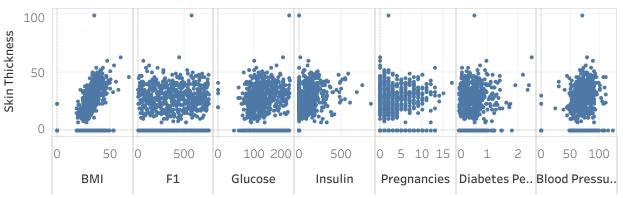


## Scatter charts between F1 and Other Variables to analyze the relationships

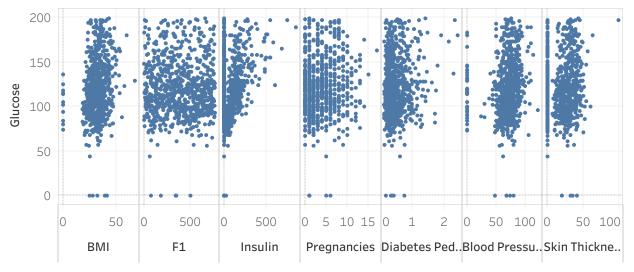


#### SCATTER CHARTS TO ANALYSE THE RELATIONSHIP BETWEEN THE VARIABLES.

## Scatter charts between Skin thickness and Other Variables to analyze the relationships

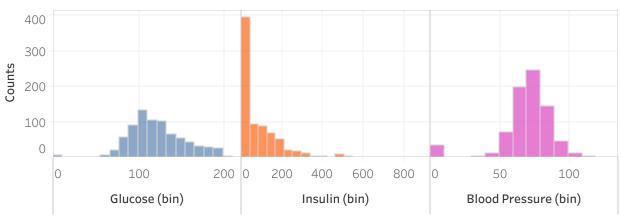


## Scatter charts between Glucose and Other Variables to analyze the relationships

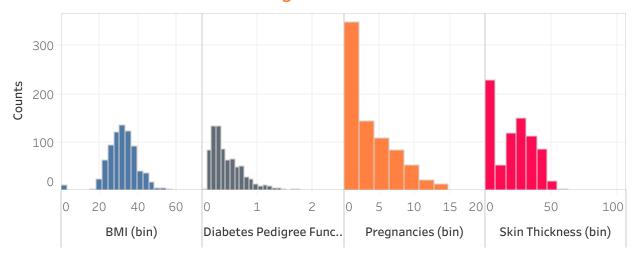


#### FREQUENCY CHARTS TO ANALYSE THE DISTRIBUTION OF DATA OF VARIABLES

### Glucose, Insulin, Blood Pressure Histogram Charts



### BMI, Pregnacies, Skin Thickness, Diabetes Pedigree Function Histogram Charts



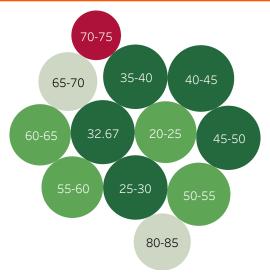
### **Heatmap of correlation analysis among the relevant variables**

### heatmap

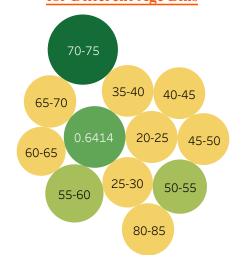
	Age Bin										
	20-25	25-30	35-40	40-45	45-50	50-55	55-60	60-65	80-85	65-70	70-75
Avg. BMI	30.4	33.0	33.1	35.3	32.9	31.8	30.2	29.9	25.9	27.5	19.6
Avg. Blood Pressure	63.8	68.0	72.3	73.3	77.9	81.9	77.5	76.0	74.0	80.7	0.0
Avg. Glucose	110.7	120.3	127.5	125.1	124.5	143.2	138.3	136.4	134.0	139.0	119.0
Avg. Insulin	84.3	84.3	61.3	56.7	67.6	109.9	149.5	26.4	60.0	0.0	0.0
Avg. Pregnancies	1.5	2.8	6.0	7.1	7.3	6.4	6.7	4.7	9.0	4.9	2.0
Avg. Skin Thickness	22.0	21.3	21.2	18.9	20.4	16.3	18.7	20.0	33.0	1.6	0.0

### Analysing different variables for age brackets using a bubble chart...

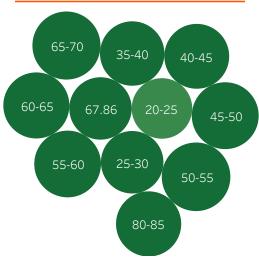
#### **BMI Bubble chart for Different Age Bins**



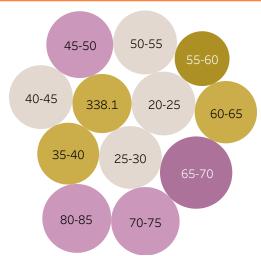
**Diabetes Pedigree Function Bubble chart for Different Age Bins** 



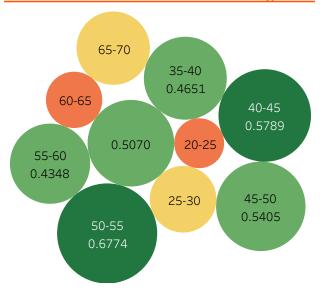
**Bubble Chart For Blood Pressure** 



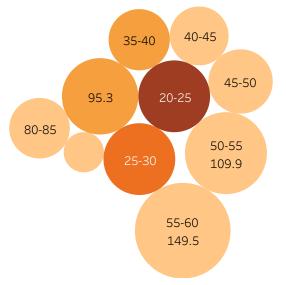
F1 Variable Analysis Using Bubble chart

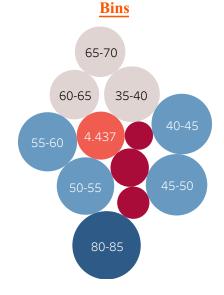


#### **Outcome Bubble chart for Different Age Bins**



<u>Insulin Bubble chart for Different Age Bins</u> <u>Pregnacies Bubble chart for Different Age</u>





## Skin Thickness Bubble chart for Different Age Bins

#### **Glucose Bubble chart for Different Age Bins**

