**Problem Statement**

Create a dashboard in tableau by choosing appropriate chart types and metrics useful for the business. The dashboard must entail the following:

* Pie chart to describe the diabetic or non-diabetic population
* Scatter charts between relevant variables to analyze the relationships
* Histogram or frequency charts to analyze the distribution of the data
* Heatmap of correlation analysis among the relevant variables
* Create bins of these age values: 20-25, 25-30, 30-35, etc. Analyze different variables for these age brackets using a bubble chart.

**Dataset Description**

The datasets consist of several medical predictor variables and one target variable (Outcome). Predictor variables includes the number of pregnancies the patient has had, their BMI, insulin level, age, and more.

**Tasks to Perform**

The task is performed after EDA.

Create a dashboard in tableau by choosing appropriate chart types and metrics useful for the business. The dashboard must entail the following:

**Task 1:-**

Pie chart to describe the diabetic or non-diabetic population

**Steps perform to complete the task**

1. First CONVERT THE “Outcome” to DIMENSION, from drop down button, click and den select **convert to dimension.**
2. Double click “Outcome”, “F1” and den under **Show Me** select pie chart.
3. Change the measure of F1 to Count.
4. From the **Analysis** tab click **percentage of** – and select **tables.**

**Task 2:-**

Scatter charts between relevant variables to analyze the relationships

**Steps perform to complete the task**

1. Double click the two Measures between you want to make scatter chart.
2. From Show Me panel select **Scatter plot.**
3. From the **Analysis** tab, untick the **aggregrate Measure.**

**Task 3:-**

Histogram or frequency charts to analyze the distribution of the data

**Steps perform to complete the task**

1. Double click the measure and from Show me pane select **histogram**

**Task 4:-**

Heatmap of correlation analysis among the relevant variables

**Steps perform to complete the task**

1. Select all the measure and Double click and from Show me pane select **Heatmap.**

**Task 5:-**

Create bins of these age values: 20-25, 25-30, 30-35, etc. Analyze different variables for these age brackets using a bubble chart.

**Steps perform to complete the task**

1. For creating Bins from drop down menu click **Create Calculated Field.** Give the name as Age Bin.
2. Write this formula-

IF

[Age]>=20 and [Age]<=25

THEN "20-25"

ELSEIF

[Age]>=25 and [Age]<=30

THEN "25-30"

ELSEIF

[Age]>=30 and [Age]<=35

THEN "30-35"

ELSEIF

[Age]>=35 and [Age]<=40

THEN "35-40"

ELSEIF

[Age]>=40 and [Age]<=45

THEN "40-45"

ELSEIF

[Age]>=45 and [Age]<=50

THEN "45-50"

ELSEIF

[Age]>=50 and [Age]<=55

THEN "50-55"

ELSEIF

[Age]>=55 and [Age]<=60

THEN "55-60"

ELSEIF

[Age]>=60 and [Age]<=65

THEN "60-65"

ELSEIF

[Age]>=65 and [Age]<=70

THEN "65-70"

ELSEIF

[Age]>=70 and [Age]<=75

THEN "70-75"

ELSEIF

[Age]>=75 and [Age]<=80

THEN "75-80"

ELSEIF

[Age]>=80 and [Age]<=85

THEN "80-85"

END

1. Double click Age Bin and any one measure
2. From Show Me pane select **packed bubble chart.**

To create a dash board select new dashboard from Dashboard. In the dashboard select the all the sheets under sheet pane and arrange accordingly.