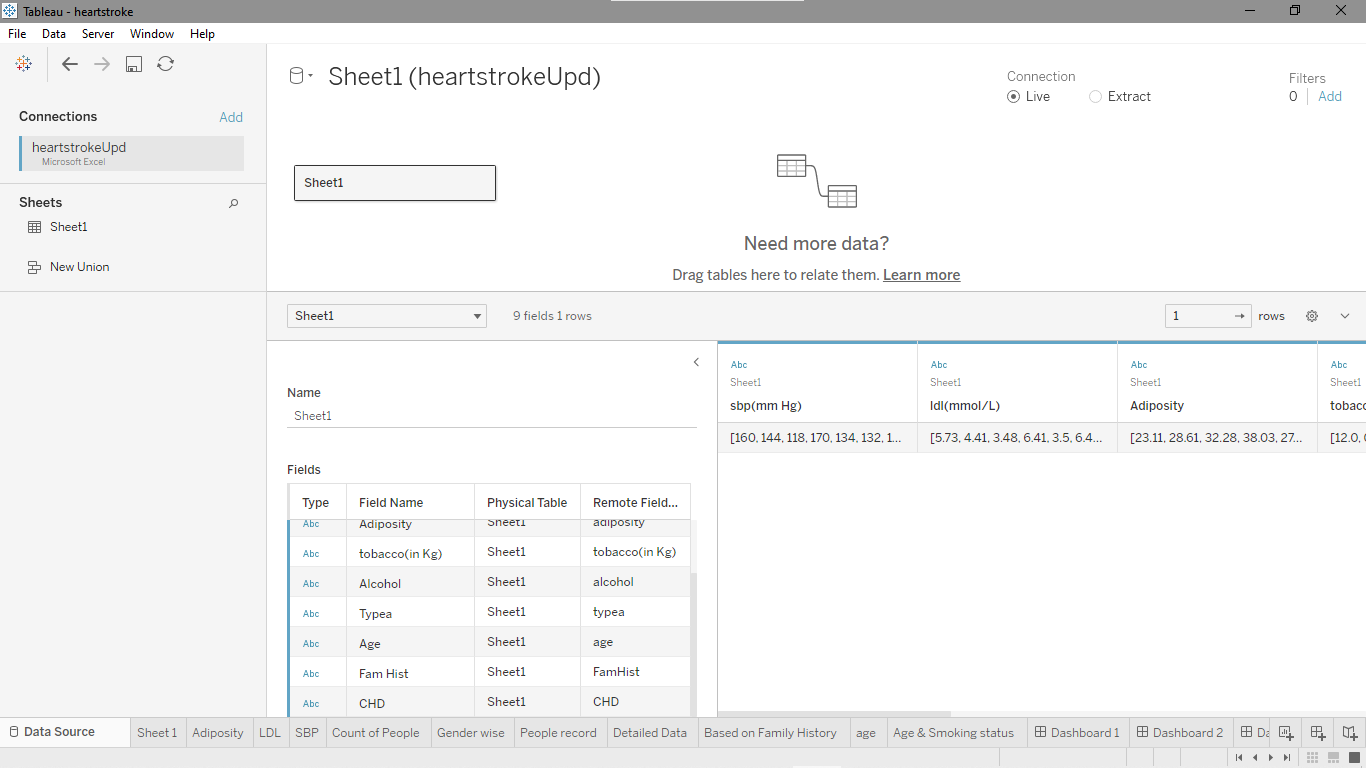
**Tableau**

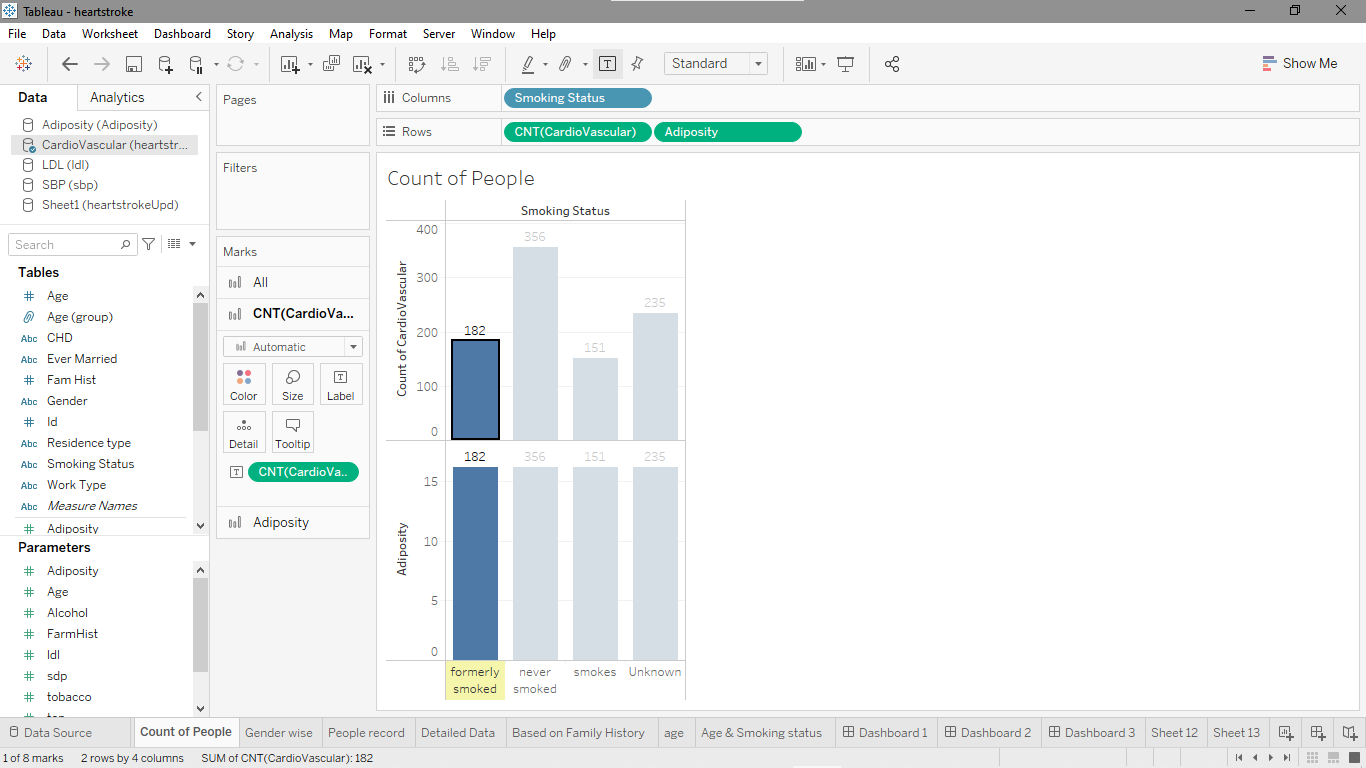
by Vishal Kumar Singh  
MCA-ss (2019272041)

**Heatstroke/ Heart disease Prediction and Analysis Using Tableau**

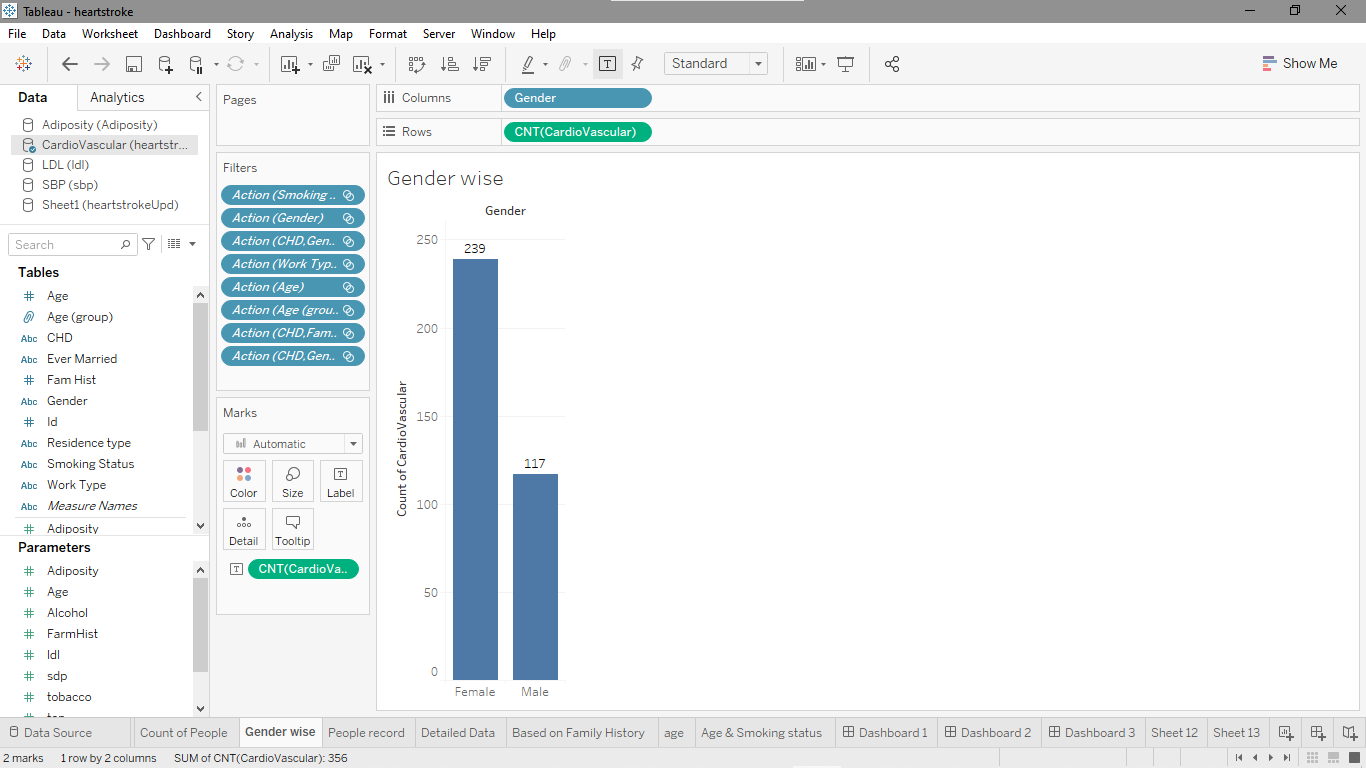
**Analysis of the dataset**

****

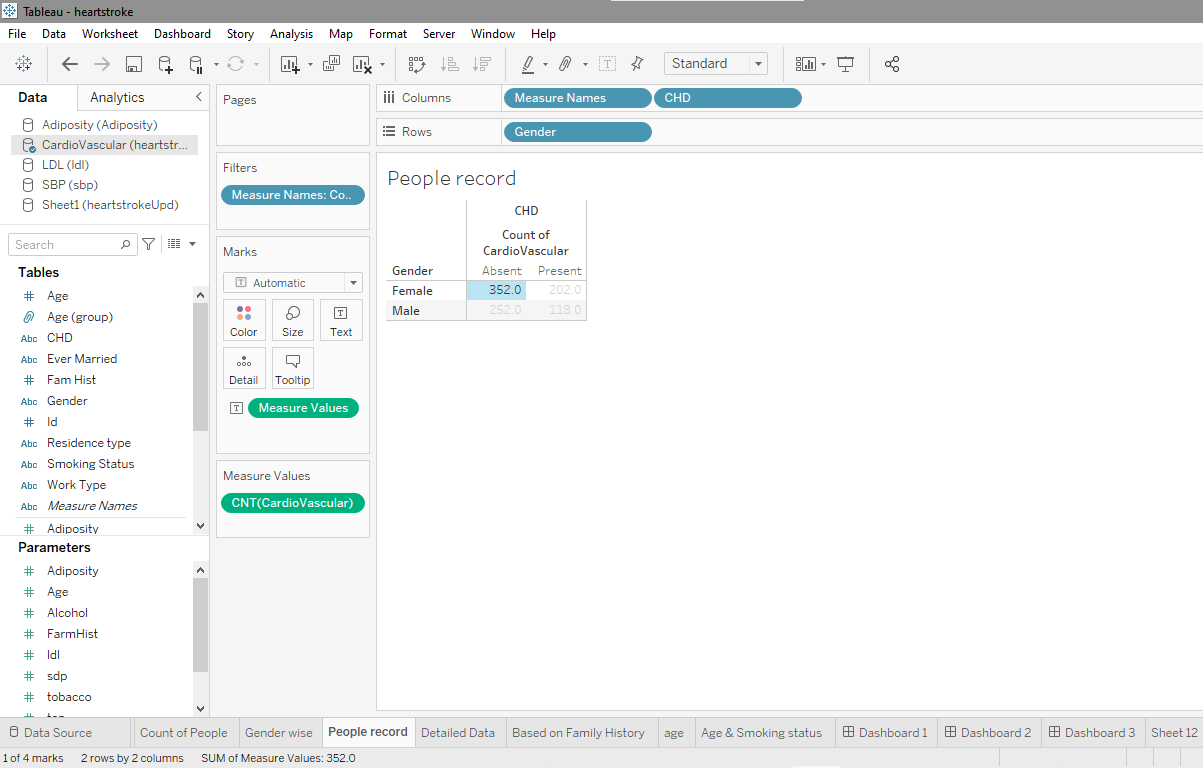
* Count of people based on cardiovascular and adiposity

****

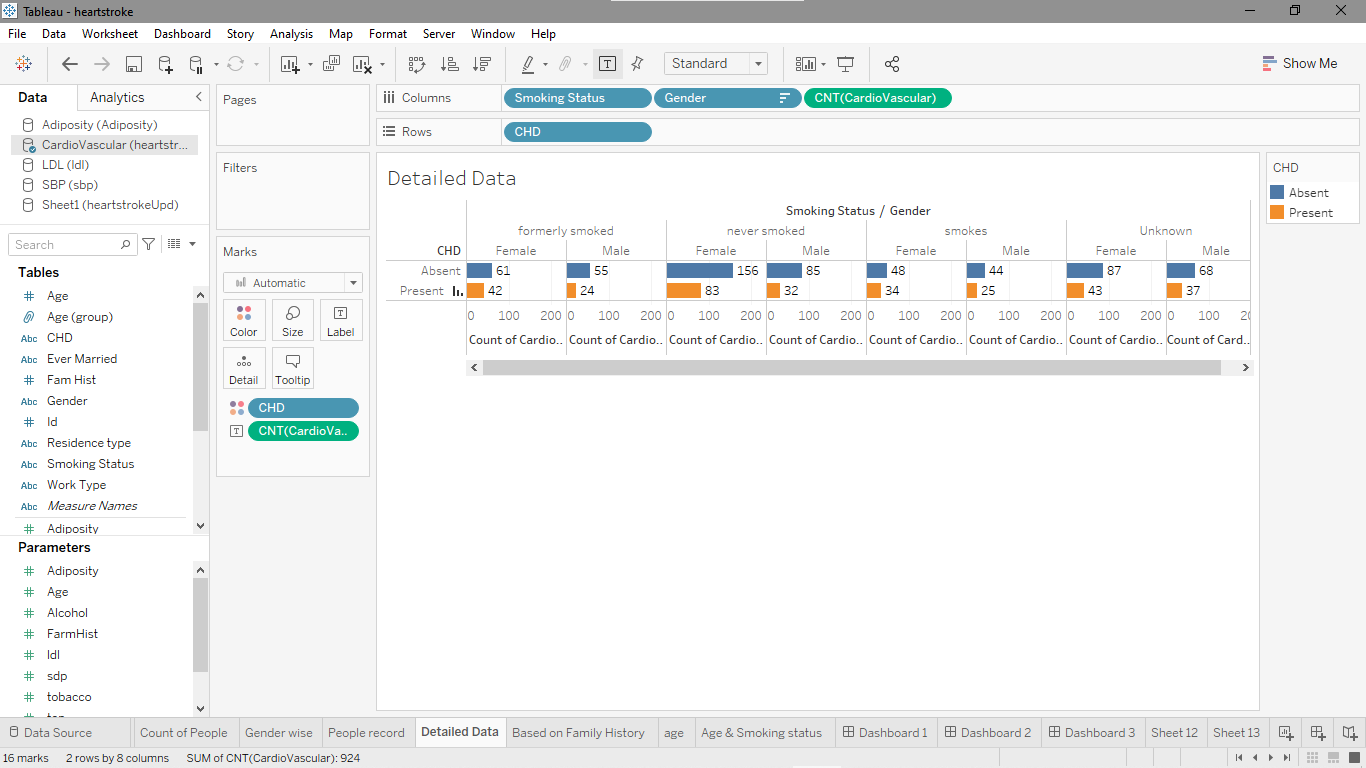
* Grouping the count gender wise

****

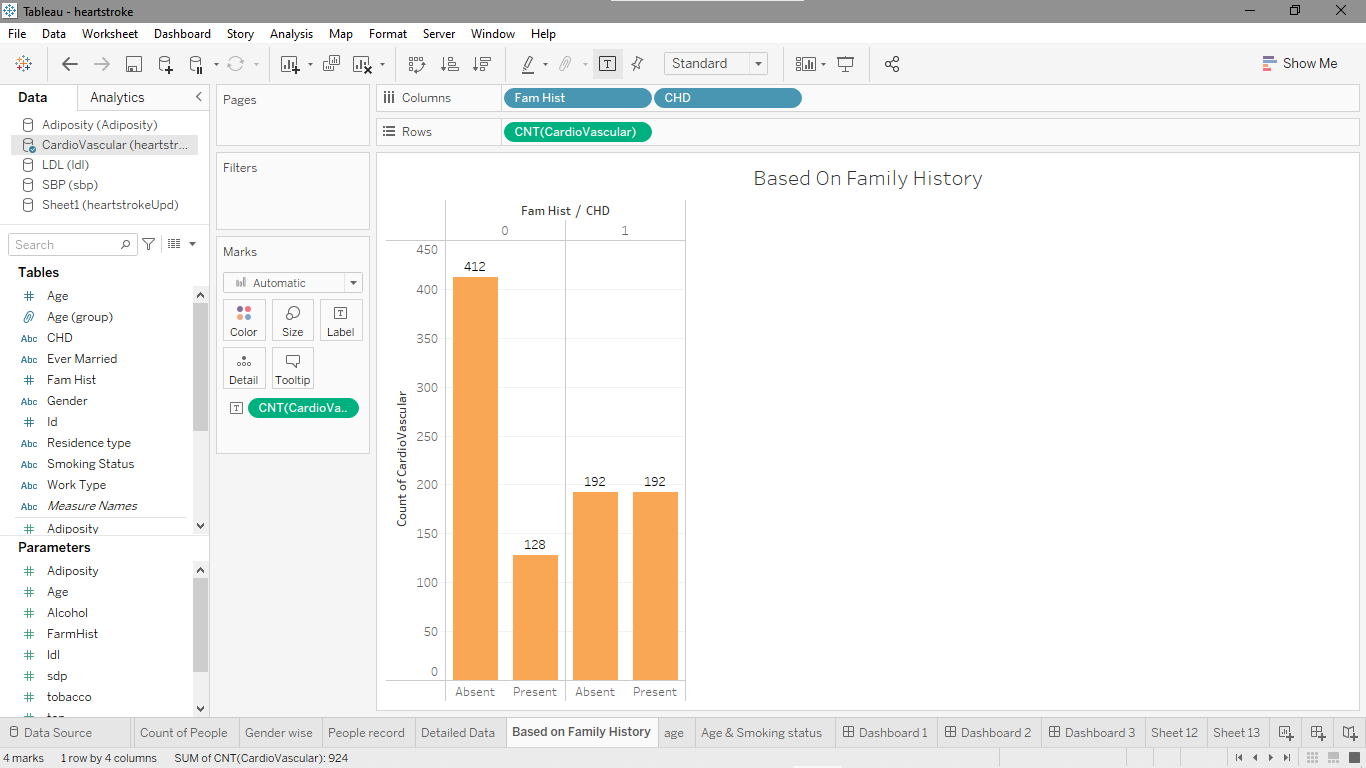
* Calculation of the people records gender wise

****

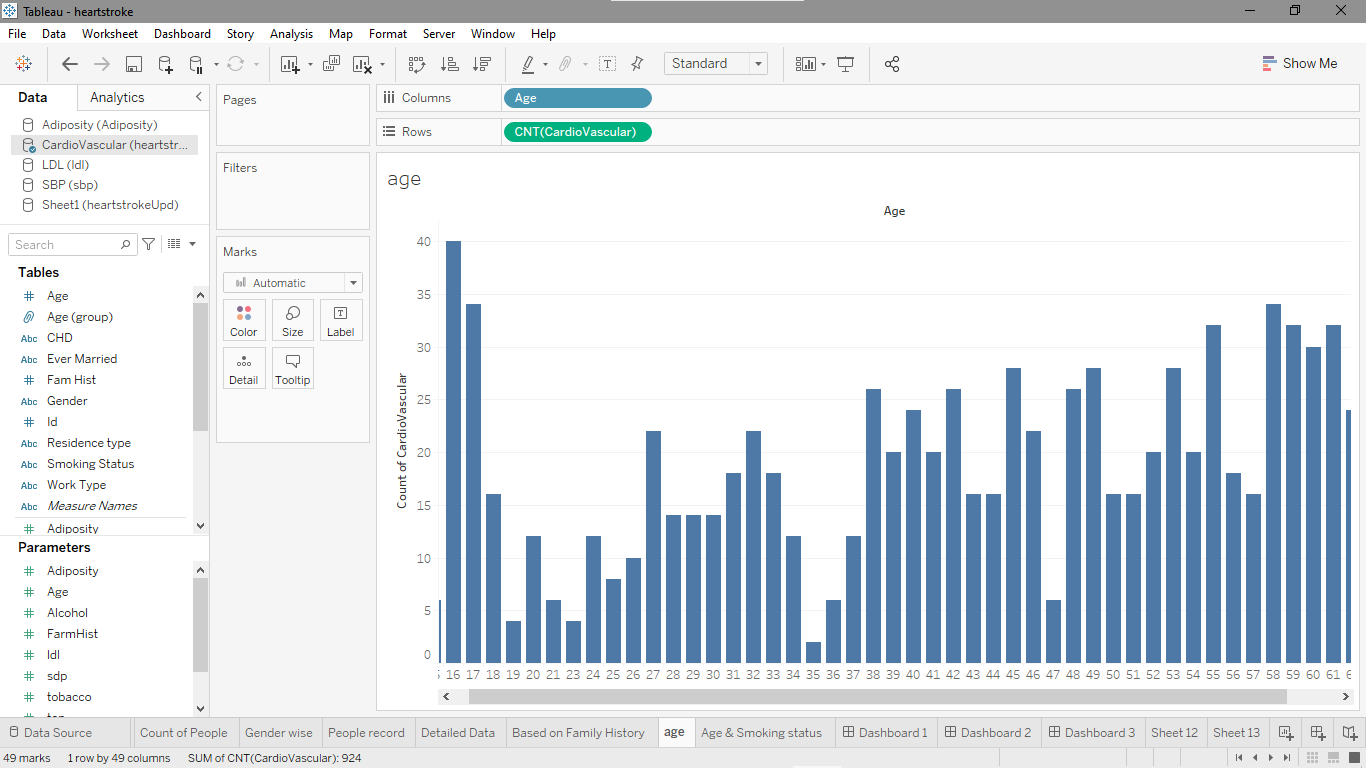
* Detailed data for each categories

****

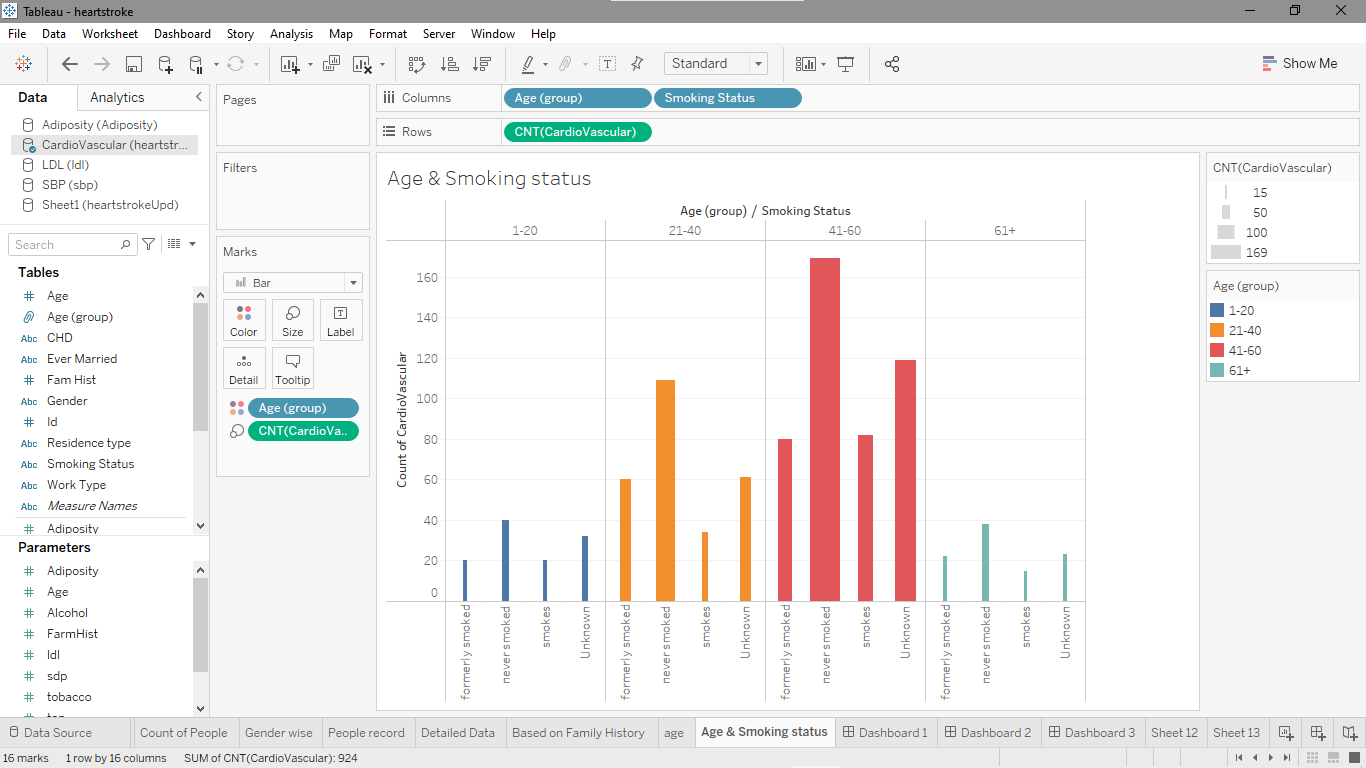
* Analysis based on family history

****

* Merging and grouping based on age

****

* Merging and grouping based on age and smoking status

****

**Predictive modelling(**Using Logistic Regression)

* Model for % of presence

SCRIPT\_STR(

"

import pandas as pd

import numpy as np

from ast import literal\_eval

from sklearn.linear\_model import LogisticRegression

from sklearn.preprocessing import StandardScaler

d={

'ad':literal\_eval(\_arg1[0]),

'ag':literal\_eval(\_arg2[0]),

'al':literal\_eval(\_arg3[0]),

'fam':literal\_eval(\_arg4[0]),

'ldl':literal\_eval(\_arg5[0]),

'sbp':literal\_eval(\_arg6[0]),

'tob':literal\_eval(\_arg7[0]),

'typea':literal\_eval(\_arg8[0]),

'chd':literal\_eval(\_arg9[0])

}

df=pd.DataFrame(d)

X=df.iloc[:,:8]

y=df.iloc[:,8]

sc=StandardScaler()

X\_t=sc.fit\_transform(X)

lr=LogisticRegression()

lr.fit(X\_t,y)

inp\_list=[\_arg10[0],\_arg11[0],\_arg12[0],\_arg13[0],

\_arg14[0],\_arg15[0],\_arg16[0],\_arg17[0]]

inp=np.array(inp\_list).reshape(1,-1)

inp=sc.transform(inp)

pred=lr.predict(inp)

prob=lr.predict\_proba(inp)

return str(pred[0])

",

ATTR([Adiposity]),ATTR([Age]),ATTR([Alcohol]),ATTR([Fam Hist]),

ATTR([ldl(mmol/L)]),ATTR([sbp(mm Hg)]),ATTR([tobacco(in Kg)]),ATTR([Typea]),

ATTR([CHD]),

[Parameters].[Adiposity],[Parameters].[Age],[Parameters].[Alcohol],

[FarmHist],[ldl],[sdp],[tobacco],[Parameters].[Typea]

)

* Model for % of absence

FLOAT(SCRIPT\_STR(

"

import pandas as pd

import numpy as np

from ast import literal\_eval

from sklearn.linear\_model import LogisticRegression

from sklearn.preprocessing import StandardScaler

d={

'ad':literal\_eval(\_arg1[0]),

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'al':literal\_eval(\_arg3[0]),

'fam':literal\_eval(\_arg4[0]),

'ldl':literal\_eval(\_arg5[0]),

'sbp':literal\_eval(\_arg6[0]),

'tob':literal\_eval(\_arg7[0]),

'typea':literal\_eval(\_arg8[0]),

'chd':literal\_eval(\_arg9[0])

}

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lr.fit(X\_t,y)

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\_arg14[0],\_arg15[0],\_arg16[0],\_arg17[0]]

inp=np.array(inp\_list).reshape(1,-1)

inp=sc.transform(inp)

pred=lr.predict(inp)

prob=lr.predict\_proba(inp)

return str(prob[0][1])

",

ATTR([Adiposity]),ATTR([Age]),ATTR([Alcohol]),ATTR([Fam Hist]),

ATTR([ldl(mmol/L)]),ATTR([sbp(mm Hg)]),ATTR([tobacco(in Kg)]),ATTR([Typea]),

ATTR([CHD]),

[Parameters].[Adiposity],[Parameters].[Age],[Parameters].[Alcohol],

[FarmHist],[ldl],[sdp],[tobacco],[Parameters].[Typea]

))

* Model for getting accuracy

SCRIPT\_STR(

"

import pandas as pd

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from sklearn.preprocessing import StandardScaler

d={

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'al':literal\_eval(\_arg3[0]),

'fam':literal\_eval(\_arg4[0]),

'ldl':literal\_eval(\_arg5[0]),

'sbp':literal\_eval(\_arg6[0]),

'tob':literal\_eval(\_arg7[0]),

'typea':literal\_eval(\_arg8[0]),

'chd':literal\_eval(\_arg9[0])

}

df=pd.DataFrame(d)

X=df.iloc[:,:8]

y=df.iloc[:,8]

sc=StandardScaler()

X\_t=sc.fit\_transform(X)

lr=LogisticRegression()

lr.fit(X\_t,y)

return str(lr.score(X\_t,y))

",

ATTR([Adiposity]),ATTR([Age]),ATTR([Alcohol]),ATTR([Fam Hist]),

ATTR([ldl(mmol/L)]),ATTR([sbp(mm Hg)]),ATTR([tobacco(in Kg)]),ATTR([Typea]),

ATTR([CHD]),

[Parameters].[Adiposity],[Parameters].[Age],[Parameters].[Alcohol],

[FarmHist],[ldl],[sdp],[tobacco],[Parameters].[Typea]

)

* Model for getting presence or absence

SCRIPT\_STR(

"

import pandas as pd

import numpy as np

from ast import literal\_eval

from sklearn.linear\_model import LogisticRegression

from sklearn.preprocessing import StandardScaler

d={

'ad':literal\_eval(\_arg1[0]),

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'al':literal\_eval(\_arg3[0]),

'fam':literal\_eval(\_arg4[0]),

'ldl':literal\_eval(\_arg5[0]),

'sbp':literal\_eval(\_arg6[0]),

'tob':literal\_eval(\_arg7[0]),

'typea':literal\_eval(\_arg8[0]),

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inp=sc.transform(inp)

pred=lr.predict(inp)

prob=lr.predict\_proba(inp)

return str(pred[0])

",

ATTR([Adiposity]),ATTR([Age]),ATTR([Alcohol]),ATTR([Fam Hist]),

ATTR([ldl(mmol/L)]),ATTR([sbp(mm Hg)]),ATTR([tobacco(in Kg)]),ATTR([Typea]),

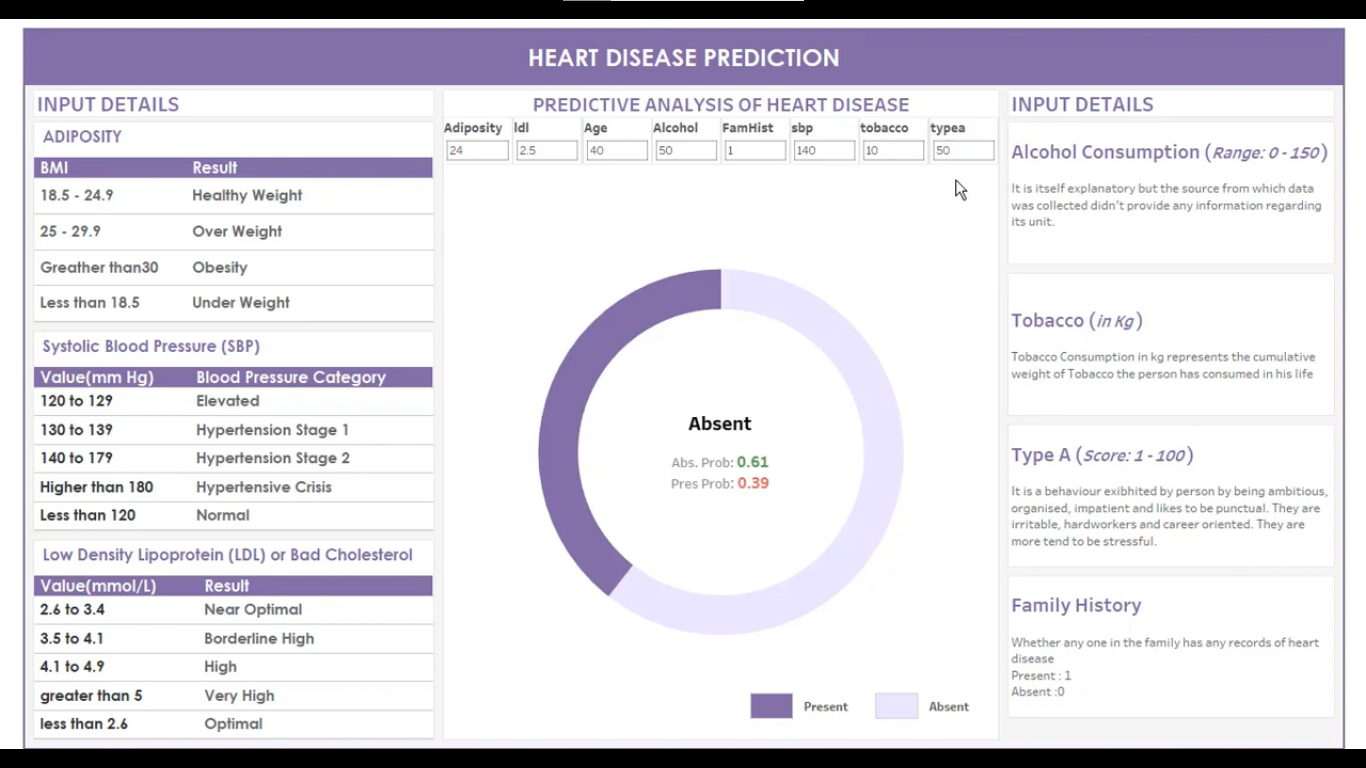
ATTR([CHD]),

[Parameters].[Adiposity],[Parameters].[Age],[Parameters].[Alcohol],

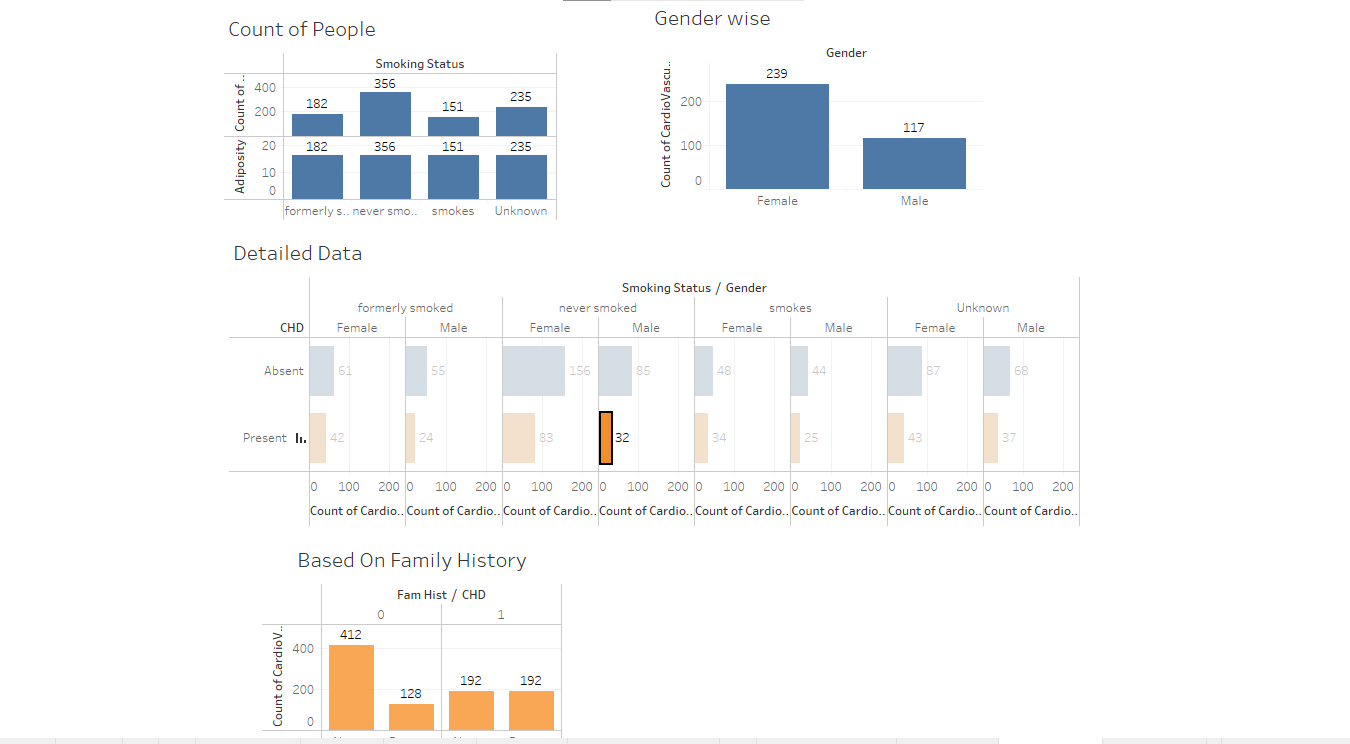
[FarmHist],[ldl],[sdp],[tobacco],[Parameters].[Typea]

)

**Designed Model in work**



* Dashboard 1

****

* Dashboard 2