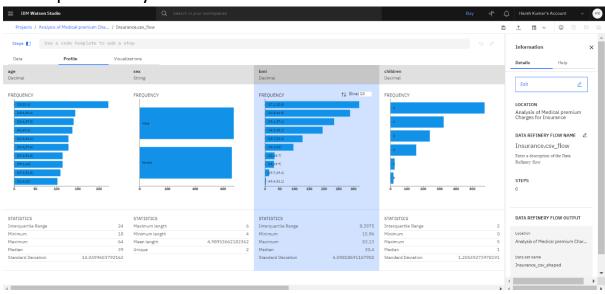
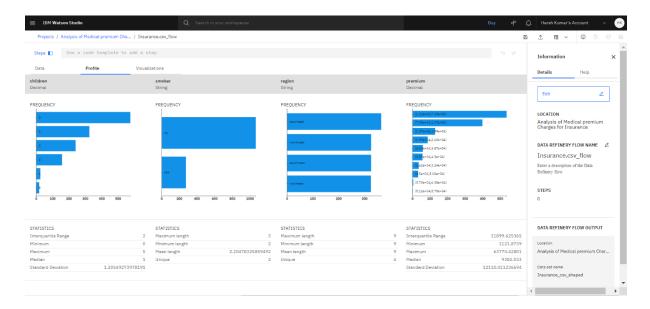
Data Analytics

Case Study: Analysis of Medical Premium charges for insurers

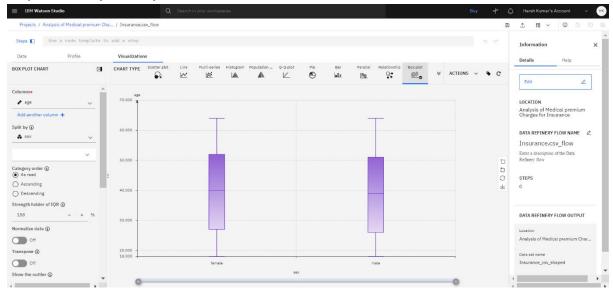
Data Refinary

• Descriptive analytics of data

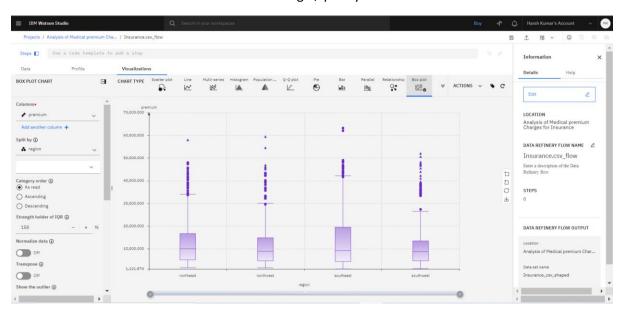




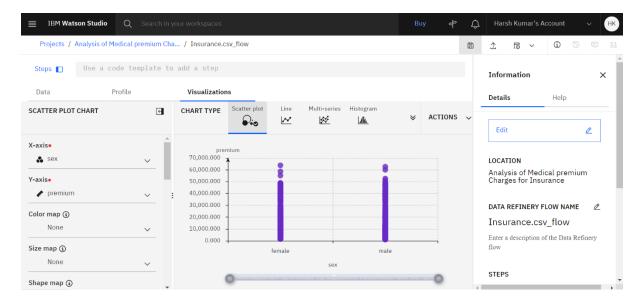
Exploratory Analytics



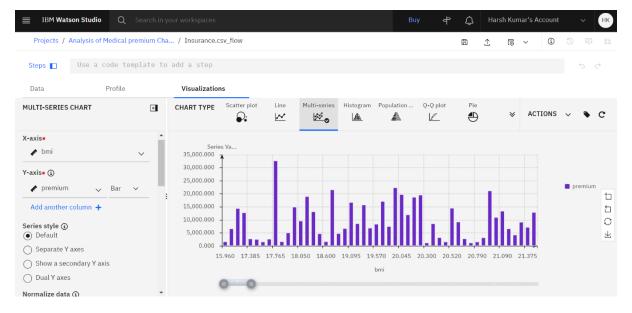
Columns-age ,split by-sex



Columns-premium ,split by-resion



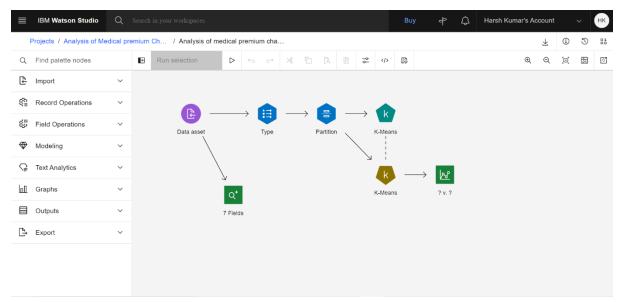
X-axis = sex, Y-axis = Premium



X-axis = bmi , Y-axis = Premium

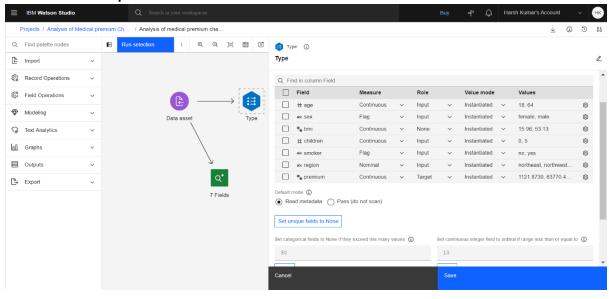
2.SPSS Modeler

Model



• Type node

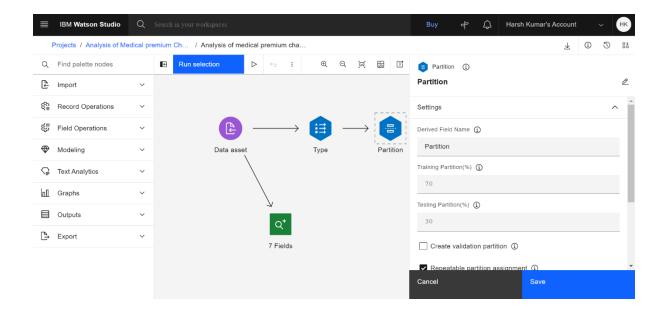
BMI as none premium as Output or target other as input



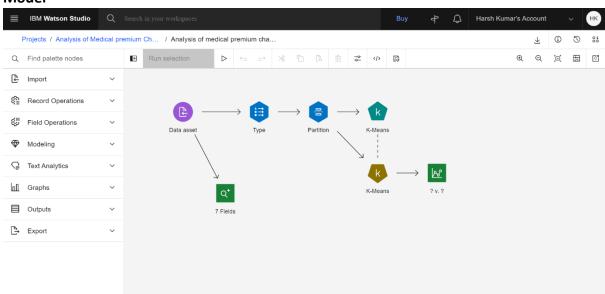
Partition node

Training – 70%

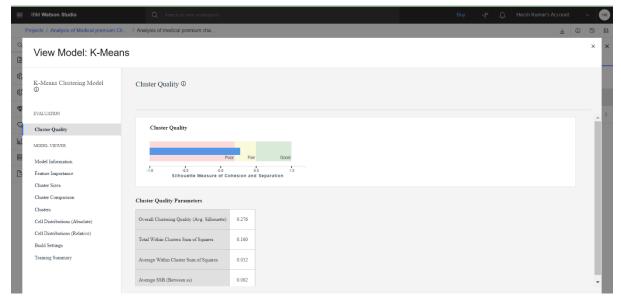
Testing – 30%

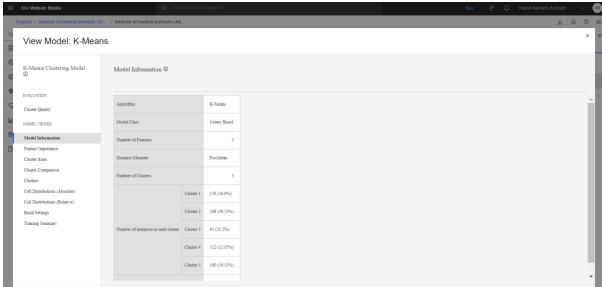


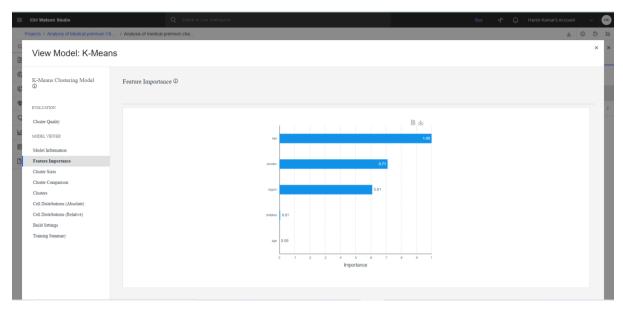
Model

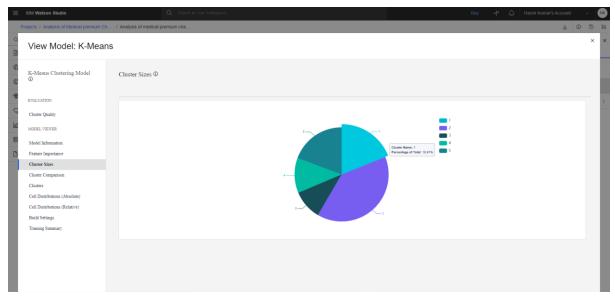


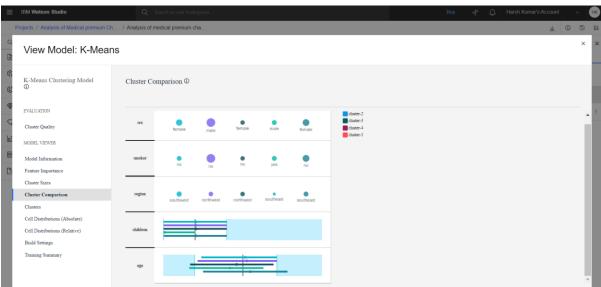
Output

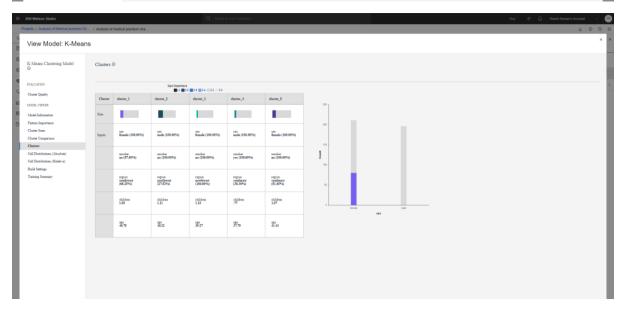


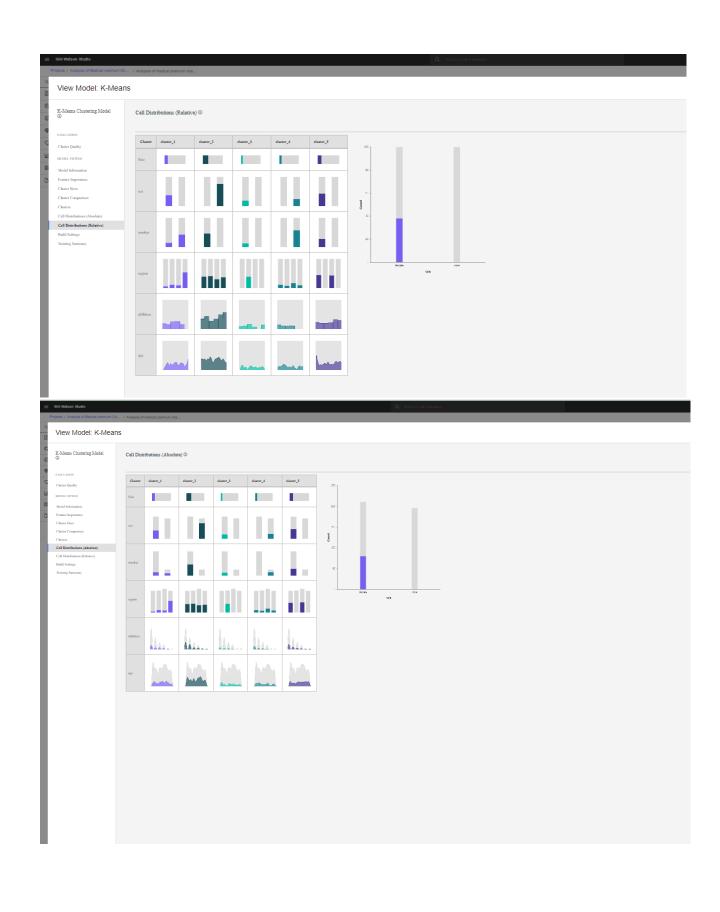


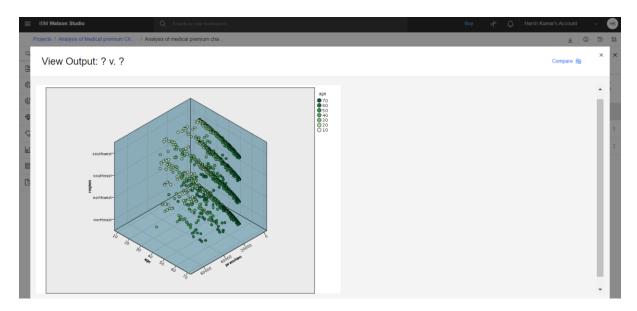




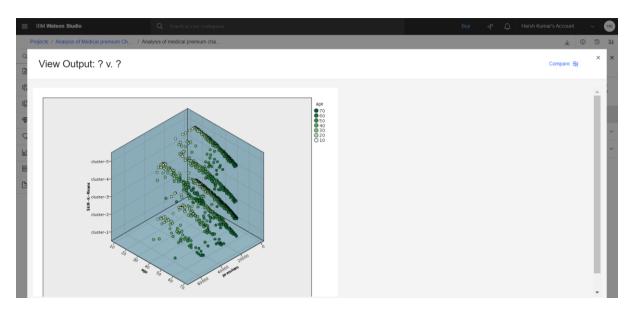




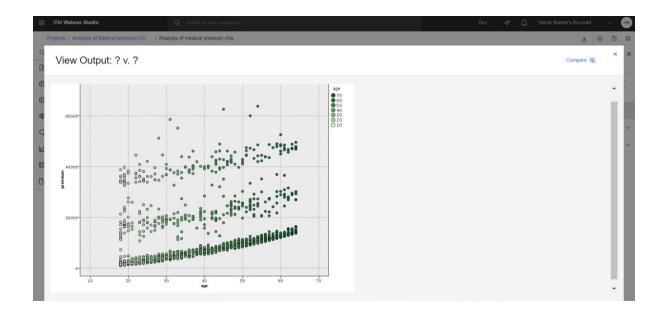




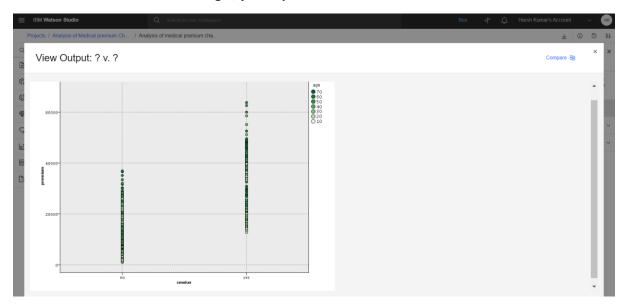
x-axis=age , y-axis=region ,z -axis=premium



x-axis=age , y-axis=\$KM-k-Means ,z -axis=premium



x-axis=age, y-axis=premium



x-axis=smoker, y-axis=premium

o Data Audit

